UNIVERSITY OF KENTUCKY

2010
Herbicide Evaluation Trials

Charles H. Slack and William W. Witt

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

Trials

Disclaimer

TABLE OF CONTENTS

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HERBICIDES IN REPORT

TRADE NAME	COMMON NAME	COMPANY
AATREX	ATRAZINE	SYNGENTA
ABUNDIT	GLYPHOSATE	DUPONT
ACCENT	NICOSULFURON	DUPONT
ACTIVATOR 90	NON-IONIC SURFACTANT	LOVELAND
ALERT	CLOMAZONE	CHEMINOVA
AMS	AMMONIUM SULFATE	CLEAN CROP
ARRAY	AMMONIUM SULFATE BLEND + POLYMERS FOR DEPOSITION AID/FOLIAR RETENTION/CANOPY PENETRATION	ROSEN'S
AUTHORITY ASSIST	SULFENTRAZONE + IMAZETHAPYR	FMC
AUTHORITY FIRST	SULFENTRAZONE + CLORANSULAM	FMC
AUTHORITY MTZ	SULFENTRAZONE + METRIBUZIN	FMC
BALANCE FLEXX HERBICIDE	ISOXAFLUTOLE	BAYER
BICEP II MAGNUM	S-METOLACHLOR + ATRAZINE + BENOXACOR	SYNGENTA
BORDER EXTRA	LIQUID AMMONIUM SULFATE + NON-IONIC RETENTION ADJUVANT	PRECISION LABS
BOUNDARY	S-METOLACHLOR + METRIBUZIN	SYNGENTA
BORNC MAX EDT	WATER CONDITIONER, DEPOSITION AID + AMS	WILBUR-ELLIS
CADET	FLUTHIACET-METHYL	FMC
CALLISTO	MESOTRIONE	SYNGENTA
CALLISTO EXTRA	MESOTRIONE + ATRAZINE	SYNGENTA
CANOPY	METRIBUZIN + CHLORIMURON ETHYL	DUPONT
CANOPY EX	CHLORIMURON + TRIBENURON	DUPONT
CAPRENO HERBICIDE	TEMBOTRIONE + THIENCARBAZONE-METHYL	BAYER
CHA-019	CLOMAZONE + METRIBUZIN	CHEMINOVA
CHA-021	CLOMAZONE + METRIBUZIN	CHEMINOVA
CINCH	S-METOLACHLOR	DUPONT
CINCH ATZ	S-METOLACHLOR + ATRAZINE	DUPONT
CLARITY	DIGLYCOLAMINE SALT OF DICAMBA	BASF
CLASS ACT NG	AMMONIUM SULFATE + NON-IONIC SURFACTANT BLEND/WATER CONDITIONING AGENT	WINFIELD
CLASSIC	CHLORIMURON	DUPONT
CORVUS HERBICIDE	ISOXAFLUTOLE + THIENCARBAZONE-METHYL	BAYER
CROP OIL CONCENTRATE (COC)		LOVELAND
DAWN	FOMESAFEN	CHEMINOVA
DEGREE EXTRA	ACETOCHLOR + ATRAZINE	MONSANTO
DESTINY HC	METHYLATED SEED OIL	WINFIELD
DOUBLEDOWN	DEPOSITION AID + DEFOAMER + AMS	UAP
DYNE-AMIC	MODIFIED VEGETABLE OIL SURFACTANT BLEND	HELENA
DUAL II MAGNUM	S-METOLACHLOR + BENOXACOR	SYNGENTA

HERBICIDES IN REPORT CONTINUED

TRADE NAME	COMMON NAME	COMPANY
DUAL MAGNUM	S-METOLACHLOR	SYNGENTA
DURANGO DMA	GLYPHOSATE	DOW AGROSCIENCE
ENVIVE	FLUMIOXAZIN + THIFENSULFURON	DUPONT
EXPRESS	TRIBENURON-METHYL	DUPONT
EXTREME	IMAZETHAPYR + GLYPHOSATE	BASF
FIERCE	FLUMIOXAZIN + PYROXASULFONE (V-10233)	VALENT
FIRSTRATE	CLORANSULAM	DOW AGROSCIENCE
FLEXSTAR	FOMESAFEN + SURFACTANT	SYNGENTA
FLEXSTAR GT	FOMESAFEN + GLYPHOSATE	SYNGENTA
GANGSTER FR	CLORANSULAM	VALENT
GANGSTER V	FLUMIOXAZIN	VALENT
GARDIAN PLUS	AMMONIUM SULFATE BLEND/DRIFT AID/DEPOSITION AID/WATER CONDITIONER	VAN DIEST
GLYFOS X-TRA	GLYPHOSATE	CHEMINOVA
GRAMOXONE INTEON	PARAQUAT	SYNGENTA
GROUNDED	DEPOSITION AID	HELENA
GUARDSMAN MAX	DIMETHENAMID-P + ATRAZINE	BASF
HALEX GT	GLYPHOSATE(PS)+ MESOTRIONE + S-METOLACHLOR	SYNGENTA
HEADLINE	PYRACLOSTROBIN	BASF
HELFIRE	DRIFT CONTROL + WATER CONDITIONER	HELENA
HERBIMAX	PETROLIUM OIL SURFACTANT	LOVELAND
IGNITE 280	GLUFOSINATE AMMONIUM	BAYER
IMPACT	TOPRAMEZONE	AMVAC
INTEGRITY	SAFLUFENACIL + DIMETHENAMID-P	BASF
INTERLOCK	MODIFIED VEGETABLE OIL/DEPOSITION AID/CANOPY PENATRANT/DRIFT CONTROL	WINFIELD
INDUCE	SURFACTANT	HELENA
LAUDIS	TEMBOTRIONE	BAYER
LEXAR	S-METOLACHLOR + MESOTRIONE + ATRAZINE	SYNGENTA
LIQUID N	28% NITROGEN	
LUMAX	S-METOLACHLOR + MESOTRIONE + ATRAZINE	SYNGENTA
MON 63410	ACETOCHOLOR	MONSANTO
MSO	METHYLATED SEED OIL	LOVELAND
NPAK AMS LIQUID	AMMONIUM SULFATE	WINFIELD
OPTILL	SAFLUFENACIL + IMAZETHAPYR	BASF
PERSIST ULTRA	ADJUVANT	PRECISION LABS
PREFIX	S-METOLACHLOR + BENOXACOR	SYNGENTA
PREQUEL	RIMSULFURON + ISOXAFULTOLE	DUPONT
PRINCEP	SIMAZINE	SYNGENTA
PROWL H2O	PENDIMETHALIN	BASF

HERBICIDES IN REPORT CONTINUED

TRADE NAME	COMMON NAME	COMPANY
QUADRIS	AZOXYSRTOBIN	SYNGENTA
RAGE D-TECH	CARFENTRAZONE-ETHYL + 2,4-D	FMC
REALM Q	RIMSULFURON + MESOTRIONE + SAFENER	DUPONT
REFLEX	FOMESAFEN	SYNGENTA
REQUEST	AMMONIUM SULFATE/WATER CONDITONER	HELENA
RESOLVE Q	RIMSULFURON + THIFENSULFURON-METHYL + SAFENER	DUPONT
RHYTHM	FOMESAFEN	CHEMINOVA
ROUNDUP ORIGINAL	GLYPHOSATE (ISOPROPYLAMINE SALT)	MONSANTO
ROUNDUP ORIGINAL MAX	GLYPHOSATE (POTASSIUM SALT)	MONSANTO
ROUNDUP POWERMAX	GLYPHOSATE (POTASSIUM SALT)	MONSANTO
ROUNDUP WEATHER MAX	GLYPHOSATE (POTASSIUM SALT)	MONSANTO
SELECT	CLETHODIM	VALENT
SENCOR	METRIBUZIN	BAYER
SHARPEN	SAFLUFENACIL	BASF
SONIC	SULFENTRAZONE + CLORANSULAM-METHYL	DOW AGROSCIENCE
SPARTAN	SULFENTRAZONE	FMC
STALWART XTRA	METOLACHLOR + ATRAZINE	SIPCAM
STATUS	DIFLUFENZOPYR + DICAMBA	BASF
STEADFAST	NICOSULFURON + RIMSULFURON	DUPONT
STEADFAST Q	NICOSULFURON + RIMSULFURON + SAFENER	DUPONT
SUCCEED	METHYLATED SOYBEAN OIL	UAP
SUPERB HC	HIGH SURFACTANT OIL CONCENTRATE	WINFIELD
SUPERSPREAD MSO	METHYL SOYATE NONYLPHENOL BLEND	WILBUR-ELLIS
SUNDANCE II	METHYLATED SOYBEAN OIL	ROSEN'S
SOY-STIK	METHYLATED SOYBEAN OIL	VAN DIEST
SURESTART	ACETOCHLOR + FLUMETSULAM + CLOPYRALID	DOW AGROSCIENCE
SYNCHRONY XP	CHLORIMURON + THIFENSULFURON	DUPONT
TACKLE	GLYPHOSATE + IMAZETHAPYR	CHEMINOVA
TOUCHDOWN TOTAL	GLYPHOSATE	SYNGENTA
TROPHY GOLD	NONIONIC SURFACTANT + MSO	VAN DIEST
UAN 28%	28% NITROGEN	
V-10206		VALENT
VALOR SX	FLUMIOXAZIN (V-53482)	VALENT
VALOR XLT	FLUMIOXAZIN + CHLORIMURON	VALENT
WEATHER GARD COMPLETE	DEPOSITION AID/DRIFT CONTROL/ANTIFOAMING/DEFOAMING/WATER CONDITIONER	LOVELAND
WEEDONE LV4	2,4-D ESTER	NUFARM AMERICAS INC

DEFINITIONS FOR METHODS OF APPLICATION

PREEMERGENCE

-30 D	30 DAYS BEFORE PLANTING
21D EPP	3 WEEKS BEFORE PLANTING
2WK EPP, 14 D, -14 D	2 WEEKS BEFORE PLANTING
10 D	10 DAYS BEFORE PLANTING
7 DAY, 7D	1 WEEK BEFORE PLANTING
PRE	PREEMERGENCE

POSTEMERGENCE

EP	EARLY POSTEMERGENCE, WEEDS 0-2”
MP	MID-POSTEMERGENCE, WEEDS 2-4”
++MP	MID-POSTEMERGENCE, FOLLOWING A MID-POSTEMERGENCE
LMP	LATE MID-POSTEMERGENCE 3-5” WEEDS
LP	LATE POSTEMERGENCE, WEEDS 4-6”
V2	8 INCH CORN, 4LF
V2-V3	2^{ND} – 3^{RD} TRIFOLIATE SOYBEAN
EP-V3	EARLY POSTEMERGENCE, 10 INCH CORN
V3	FOUR NODES WITH 3 UNFOLDED LEAFLETS, 7-9 IN SOYBEAN
V4, 12C	12 INCH CORN
V5	16 INCH CORN
LP-V6	LATE POSTEMERGENCE, 20 INCH CORN
V9-R1	9 NODES WITH UNFOLDED LEAFLETS, BEGINNING BLOOM SOYBEAN
2-3 WAP	2-3 WEEKS AFTER PLANTING
35 D	35 DAYS AFTER PLANTING
42 DAY	42 DAYS AFTER PLANTING

ABBREVIATIONS

Crop and Weed Species

ABBR	COMMON NAME	SCIENTIFIC NAME
AMACH	Smooth Pigweed	*Amaranthus hybridus*
AMBTR	Giant Ragweed	*Ambrosia trifida*
CHEAL	Common Lambsquarters	*Chenopodium album*
GLXMA	Soybean	*Glycine max*
ERICA	Marestail	*Conyza canadensis*
IPOSS	Morningglory	*Ipomoea sp.*
LACSE	Prickly Lettuce	*Lacutuca serriola*
LAMAM	Henbit	*Lamium amplexicaule*
SETFA	Giant Foxtail	*Setaria faberi*
STEME	Common Chickweed	*Stellaria media*
TAROF	Common Dandelion	*Taraxcum officimale*
ZEAMX	Corn	*Zea mays*

APRIL CLIMATOLOGICAL DATA-SPINDLETOP

DATE	AIR TEMP MX	MN	AV	PRECIP	RH MX	MN	SOIL TEMP GRASS MX	MN	BARE MX	MN	EVAP
04-01-2010	79	54	66		64	30	54	50	58	52	
04-02-2010	81	58	70		55	26	56	51	59	53	
04-03-2010	70	48	59	0.02	70	38	55	53	58	55	
04-04-2010	75	44	60		81	29	55	51	58	53	
04-05-2010	81	61	71		76	44	58	53	60	55	
04-06-2010	84	65	74		63	19	58	56	61	58	
04-07-2010	74	64	69		65	38	58	56	61	58	
04-08-2010	65	42	54	0.25	97	61	58	54	60	56	
04-09-2010	56	37	46		86	39	54	52	55	53	
04-10-2010	69	36	52		80	27	54	49	56	50	
04-11-2010	75	43	59		71	24	56	50	56	51	
04-12-2010	75	45	60		82	35	57	52	57	52	
04-13-2010	81	47	64		81	32	59	53	58	53	
04-14-2010	79	49	64		81	43	60	55	60	55	
04-15-2010	83	53	68		80	32	61	56	61	56	
04-16-2010	81	59	70	0.22	98	33	60	57	61	58	
04-17-2010	60	41	50		97	31	59	56	60	57	
04-18-2010	62	33	48		80	42	56	52	58	53	
04-19-2010	64	37	50		87	45	56	52	58	53	
04-20-2010	64	43	54	0.01	95	36	55	53	56	54	
04-21-2010	70	44	57		96	37	57	53	58	54	
04-22-2010	71	46	58		81	43	56	52	57	54	
04-23-2010	67	54	60	0.12	97	70	56	54	58	55	
04-24-2010	74	56	65	0.55	98	65	58	56	60	57	
04-25-2010	69	54	62	0.50	100	54	58	57	60	59	
04-26-2010	54	49	52	0.06	98	90	57	55	59	57	
04-27-2010	58	40	49	1.01	98	40	55	54	57	55	
04-28-2010	64	33	48		97	31	54	51	56	53	
04-29-2010	72	40	56		92	45	55	51	57	53	
04-30-2010	80	54	67		78	34	59	54	60	56	

Summary for Spindletop for the period 4-1-2010 through 4-30-2010:

STATION	AIR TEMP MX	MN	AV	TOTAL PRECIP	RH MX	MN	SOIL TEMP GRASS MX	MN	BARE MX	MN	TOTAL EVAP
Spindletop	71	48	59	2.74	84	40	57	53	58	55	
(Deviation from normal)	+6	+3	+4	-1.14							

MAY CLIMATOLOGICAL DATA-SPINDLETOP

DATE	AIR TEMP MX	MN	AV	PRECIP	RH MX	MN	SOIL TEMP GRASS MX	MN	BARE MX	MN	EVAP
05-01-2010	70	62	66	1.56	99	49	59	58	61	59	
05-02-2010	67	64	66	1.76	99	92	60	59	62	61	
05-03-2010	78	60	69	0.18	100	39	65	63	77	67	
05-04-2010	76	55	66		89	33	66	65	70	60	
05-05-2010	82	57	70		88	44	69	64			
05-06-2010	76	60	68		65	26	71	68			
05-07-2010	85	57	71		65	38	80	70	82	69	
05-08-2010	59	49	54	0.15	87	40	72	67	75	66	
05-09-2010	59	39	49		88	33	68	61			
05-10-2010	62	38	50		78	36	68	61			
05-11-2010	71	53	62	0.01	94	55	62	61			
05-12-2010	77	63	70	0.41	96	77	63	60	63	61	
05-13-2010	82	64	73	0.15	97	63	66	62	66	62	
05-14-2010	81	65	73		92	71	68	65	67	65	
05-15-2010	78	59	68	0.02	91	55	68	65	66	64	
05-16-2010	65	58	62	0.91	98	78	66	63	65	63	
05-17-2010	69	58	64	0.87	99	80	63	62	64	63	
05-18-2010	61	55	58	0.03	99	85	63	62	63	62	
05-19-2010	65	51	58		99	71	62	61	62	61	
05-20-2010	72	47	60	0.04	100	60	62	59	62	60	
05-21-2010	75	61	68	1.28	99	71	63	61	64	62	
05-22-2010	79	61	70	0.01	99	59	66	62	66	64	
05-23-2010	85	57	71		99	52	69	63	71	63	
05-24-2010	84	62	73		96	48	70	65	72	66	
05-25-2010	84	62	73		92	45	71	67	72	68	
05-26-2010	87	63	75		98	42	73	68	74	69	
05-27-2010	90	64	77		98	37	74	68	74	69	
05-28-2010	82	65	74		97	56	71	69	73	70	
05-29-2010	87	62	74		98	46	73	68	75	69	
05-30-2010	86	66	76	0.46	96	52	73	70	75	71	
05-31-2010	82	69	76		90	60	73	70	76	72	

Summary for Spindletop for the period 5-1-2010 through 5-31-2010:

STATION	AIR TEMP MX	MN	AV	TOTAL PRECIP	RH MX	MN	SOIL TEMP GRASS MX	MN	BARE MX	MN	TOTAL EVAP
Spindletop	76	58	67	7.84	93	55	68	64	69	65	
(Deviation from normal)	+0	+3	+2	+3.37							

JUNE CLIMATOLOGICAL DATA-SPINDLETOP

DATE	AIR TEMP MX	MN	AV	PRECIP	RH MX	MN	SOIL TEMP GRASS MX	MN	BARE MX	MN	EVAP
06-01-2010	86	68	77		96	50	74	70	77	72	
06-02-2010	86	69	78	0.27	94	57	73	71	76	73	
06-03-2010	85	68	76		92	53	73	70	76	73	
06-04-2010	84	64	74	0.43	97	64	73	71	76	73	
06-05-2010	87	70	78		95	60	74	71	77	74	
06-06-2010	79	65	72	0.03	90	54	73	71	76	74	
06-07-2010	78	59	68		92	47	71	69	74	71	
06-08-2010	81	59	70		92	44	71	68	74	71	
06-09-2010	78	68	73	0.70	97	73	71	69	73	72	
06-10-2010	84	69	76		99	44	73	70	76	73	
06-11-2010	86	69	78		96	64	73	71	75	73	
06-12-2010	88	70	79	0.52	97	69	74	71	77	73	
06-13-2010	87	69	78	0.30	99	63	76	73	79	75	
06-14-2010	91	68	80	0.47	99	59	77	73	78	75	
06-15-2010	91	69	80	0.52	96	56	79	75	80	76	
06-16-2010	85	68	76		98	58	77	75	78	76	
06-17-2010	84	64	74		98	45	76	73	77	75	
06-18-2010	89	64	76		93	49	77	72	78	74	
06-19-2010	86	69	78	0.31	97	60	77	73	77	75	
06-20-2010	89	66	78		99	39	78	73	78	74	
06-21-2010	90	69	80	0.43	98	59	78	75	78	76	
06-22-2010	90	70	80		91	54	79	74	78	75	
06-23-2010	91	73	82		93	58	81	76	79	76	
06-24-2010	86	67	76	0.05	93	58	79	77	78	77	
06-25-2010	87	65	76		97	46	79	74	78	75	
06-26-2010	89	66	78		96	53	80	74	78	74	
06-27-2010	89	75	82		92	59	81	77	79	76	
06-28-2010	83	69	76	0.58	98	66	79	76	78	76	
06-29-2010	84	66	75		99	50	78	75	77	75	
06-30-2010	78	60	69		90	42	76	73	76	74	

Summary for Spindletop for the period 6-1-2010 through 6-30-2010:

STATION	AIR TEMP MX	MN	AV	TOTAL PRECIP	RH MX	MN	SOIL TEMP GRASS MX	MN	BARE MX	MN	TOTAL EVAP
Spindletop	86	67	76	4.61	95	55	76	73	77	74	
(Deviation from normal)	+3	+5	+4	+0.95							

JULY CLIMATOLOGICAL DATA-SPINDLETOP

DATE	AIR TEMP MX	MN	AV	PRECIP	RH MX	MN	SOIL TEMP GRASS MX	MN	BARE MX	MN	EVAP
07-01-2010	77	56	66		89	40	74	71	74	71	
07-02-2010	81	54	68		91	36	73	69	75	70	
07-03-2010	90	56	73		92	41	76	69	77	70	
07-04-2010	90	72	81		84	48	77	72	78	74	
07-05-2010	93	69	81		94	35	78	73	79	75	
07-06-2010	91	67	79		92	35	78	73	80	75	
07-07-2010	95	70	82		93	32	80	74	81	76	
07-08-2010	96	70	83		93	33	80	74	82	77	
07-09-2010	81	70	76	0.99	98	73	78	75	80	78	
07-10-2010	86	67	76		99	34	79	74	82	76	
07-11-2010	90	64	77		92	41	79	73	82	76	
07-12-2010	85	71	78	0.20	97	61	80	75	82	78	
07-13-2010	79	67	73	1.34	98	68	78	75	80	77	
07-14-2010	89	65	77		99	50	78	73	82	75	
07-15-2010	90	68	79		98	49	79	75	83	78	
07-16-2010	91	74	82		90	51	80	76	84	79	
07-17-2010	88	70	79	0.34	96	62	81	76	83	79	
07-18-2010	88	75	82		91	59	81	77	84	79	
07-19-2010	90	69	80	0.94	97	55	81	77	85	79	
07-20-2010	87	69	78		98	66	79	76	83	78	
07-21-2010	85	72	78	1.17	97	76	79	76	82	79	
07-22-2010	90	72	81		97	58	80	76	85	79	
07-23-2010	91	76	84		90	56	82	78	85	80	
07-24-2010	91	76	84		84	56	82	78	85	81	
07-25-2010	90	76	83		88	57	81	78	84	81	
07-26-2010	86	72	79		95	64	80	77	83	80	
07-27-2010	87	71	79	0.48	97	68	79	76	82	79	
07-28-2010	88	73	80	0.02	98	66	80	77	83	79	
07-29-2010	88	70	79		98	61	79	77	83	80	
07-30-2010	82	62	72		94	45	78	75	81	78	
07-31-2010	85	67	76	0.01	93	60	77	74	80	77	

Summary for Spindletop for the period 7-1-2010 through 7-31-2010:

STATION	AIR TEMP MX	MN	AV	TOTAL PRECIP	RH MX	MN	SOIL TEMP GRASS MX	MN	BARE MX	MN	TOTAL EVAP
Spindletop	88	69	78	5.49	94	53	79	75	82	77	
(Deviation from normal)	+2	+4	+3	+0.49							

AUGUST CLIMATOLOGICAL DATA-SPINDLETOP

DATE	AIR TEMP MX	MN	AV	PRECIP	RH MX	MN	SOIL TEMP GRASS MX	MN	BARE MX	MN	EVAP
08-01-2010	89	68	78		98	56	78	75	81	78	
08-02-2010	91	68	80		97	49	79	75	82	78	
08-03-2010	92	71	82		96	46	79	75	82	78	
08-04-2010	96	78	87		82	54	80	77	83	79	
08-05-2010	85	74	80	0.05	90	64	79	77	82	80	
08-06-2010	86	67	76		98	41	78	75	81	78	
08-07-2010	86	61	74		96	37	76	73	80	76	
08-08-2010	89	62	76		93	38	76	72	79	75	
08-09-2010	95	68	82		90	38	77	72	80	75	
08-10-2010	96	74	85		94	43	80	75	82	78	
08-11-2010	95	75	85		93	51	80	77	82	79	
08-12-2010	96	74	85		94	47	79	76	82	79	
08-13-2010	92	72	82		96	47	79	77	82	79	
08-14-2010	97	73	85	0.87	99	47	79	77	82	79	
08-15-2010	91	72	82	0.51	97	61	79	76	82	79	
08-16-2010	87	66	76		94	38	79	76	82	79	
08-17-2010	86	62	74		94	41	77	74	81	77	
08-18-2010	79	67	73		99	74	76	74	79	77	
08-19-2010	81	64	72	0.01	100	69	75	73	78	76	
08-20-2010	89	64	76		99	40	76	72	78	75	
08-21-2010	86	71	78	0.10	91	65	75	73	78	76	
08-22-2010	90	67	78		98	44	76	73	79	76	
08-23-2010	83	63	73		97	54	75	73	78	76	
08-24-2010	78	63	70		96	55	74	72	77	75	
08-25-2010	85	60	72		99	44	74	71	77	73	
08-26-2010	83	59	71		85	31	74	71	77	73	
08-27-2010	84	54	69		95	31	73	69	76	72	
08-28-2010	90	57	74		93	41	74	69	77	72	
08-29-2010	92	69	80		90	33	75	71	78	74	
08-30-2010	92	67	80		94	39	75	72	78	74	
08-31-2010	90	65	78		99	34	75	71	78	74	

Summary for Spindletop for the period 8-1-2010 through 8-31-2010:

STATION	AIR TEMP MX	MN	AV	TOTAL PRECIP	RH MX	MN	SOIL TEMP GRASS MX	MN	BARE MX	MN	TOTAL EVAP
Spindletop	89	67	78	1.54	95	47	77	74	80	76	
(Deviation from normal)	+5	+4	+5	-2.39							

SEPTEMBER CLIMATOLOGICAL DATA-SPINDLETOP

	AIR TEMP				RH		SOIL TEMP GRASS		SOIL TEMP BARE		
DATE	MX	MN	AV	PRECIP	MX	MN	MX	MN	MX	MN	EVAP
09-01-2010	92	66	79		91	32	75	71	78	74	
09-02-2010	95	66	80		91	24	75	71	78	74	
09-03-2010	82	60	71	0.35	83	30	73	71	77	74	
09-04-2010	74	53	64		84	33	70	68	74	71	
09-05-2010	79	46	62		95	22	70	65	73	68	
09-06-2010	88	50	69		88	22	70	65	73	68	
09-07-2010	91	66	78		83	40	71	67	75	70	
09-08-2010	84	57	70		84	23	72	69	76	72	
09-09-2010	81	52	66		86	27	71	67	74	70	
09-10-2010	76	56	66		82	33	69	67	72	70	
09-11-2010	85	64	74	0.24	96	65	71	67	74	70	
09-12-2010	81	58	70		96	27	71	68	74	70	
09-13-2010	87	55	71		82	27	70	66	73	68	
09-14-2010	89	63	76		77	27	71	67	74	70	
09-15-2010	91	60	76		90	23	72	67	74	69	
09-16-2010	83	65	74	0.10	95	49	71	69	74	72	
09-17-2010	79	55	67		97	38	72	67	73	70	
09-18-2010	86	50	68		99	26	71	66	73	68	
09-19-2010	90	54	72		91	27	71	66	73	68	
09-20-2010	87	58	72		98	37	72	67	74	69	
09-21-2010	94	60	77		94	28	73	68	75	70	
09-22-2010	94	68	81		80	26	73	70	76	72	
09-23-2010	95	66	80		91	28	74	70	76	72	
09-24-2010	92	69	80	0.35	97	32	74	71	77	73	
09-25-2010	79	57	68		95	31	72	69	75	71	
09-26-2010	72	51	62		83	39	69	66	72	69	
09-27-2010	57	53	55	0.10	96	81	66	64	69	67	
09-28-2010	69	50	60		99	39	65	63	68	65	
09-29-2010	77	45	61		100	39	67	61	69	63	
09-30-2010	82	48	65		100	25	67	62	69	65	

Summary for Spindletop for the period 9-1-2010 through 9-30-2010:

	AIR TEMP			TOTAL	RH		SOIL TEMP GRASS		SOIL TEMP BARE		TOTAL
STATION	MX	MN	AV	PRECIP	MX	MN	MX	MN	MX	MN	EVAP
Spindletop	84	57	71	1.14	91	33	71	67	74	70	
(Deviation from normal)	+6	+2	+4	-2.06							

OCTOBER CLIMATOLOGICAL DATA-SPINDLETOP

	AIR TEMP				RH		SOIL TEMP GRASS		SOIL TEMP BARE		
DATE	MX	MN	AV	PRECIP	MX	MN	MX	MN	MX	MN	EVAP
10-01-2010	73	48	60		84	23	66	62	69	65	
10-02-2010	76	41	58	0.04	95	24	64	60	67	63	
10-03-2010	53	45	49		93	62	62	59	65	62	
10-04-2010	57	44	50		90	56	60	58	63	61	
10-05-2010	66	44	55		96	26	61	57	64	60	
10-06-2010	73	40	56		74	20	60	56	63	59	
10-07-2010	80	52	66		77	26	63	57	66	60	
10-08-2010	83	44	64		96	15	64	58	66	61	
10-09-2010	86	46	66		78	14	65	58	67	61	
10-10-2010	88	53	70		66	16	65	59	67	62	
10-11-2010	87	55	71		65	19	65	60	68	63	
10-12-2010	81	59	70		79	31	65	62	68	64	
10-13-2010	78	55	66	0.23	98	40	65	62	68	64	
10-14-2010	65	45	55		97	31	63	60	66	63	
10-15-2010	67	45	56		78	32	61	58	64	61	
10-16-2010	70	37	54		99	26	61	55	63	58	
10-17-2010	81	48	64		68	24	61	56	64	59	
10-18-2010	80	49	64		84	31	62	58	65	60	
10-19-2010	67	43	55		91	26	62	58	64	61	
10-20-2010	69	41	55		83	21	60	56	63	59	
10-21-2010	67	40	54		62	24	60	56	62	59	
10-22-2010	68	34	51		76	18	59	54	61	57	
10-23-2010	81	49	65		47	13	59	55	62	57	
10-24-2010	80	60	70		84	32	62	58	64	60	
10-25-2010	72	60	66	0.01	92	59	62	60	64	63	
10-26-2010	81	50	66	0.94	97	51	63	59	65	61	
10-27-2010	74	51	62		92	24	60	57	63	60	
10-28-2010	60	42	51		73	33	59	56	61	59	
10-29-2010	56	36	46		82	34	57	54	59	56	
10-30-2010	67	33	50		87	14	55	51	58	54	
10-31-2010	64	39	52		71	35	56	52	59	55	

Summary for Spindletop for the period 10-1-2010 through 10-31-2010:

	AIR TEMP			TOTAL	RH		SOIL TEMP GRASS		SOIL TEMP BARE		TOTAL
STATION	MX	MN	AV	PRECIP	MX	MN	MX	MN	MX	MN	EVAP
Spindletop	73	46	59	1.22	82	29	62	57	64	60	
(Deviation from normal)	+5	+1	+3	-1.35							

APRIL-OCTOBER 2010 SUMMARY
CLIMATOLOGICAL DATA, SPINDLETOP

		AIR TEMPERATURE						-- SOD --			
		AVERAGE			EXTREME		AVG DEPART	NO. OF DAYS MAX	NO. OF DAYS MIN	4" TEMP AVERAGE	
YEAR	MONTH	MAX	MIN	AVG	MAX	MIN	FROM NORM	>=90	<=32	MAX	MIN
2010	Apr	71	48	59	84	33	+4	0	0	57	53
2010	May	76	58	67	90	38	+3	1	0	68	64
2010	Jun	86	67	76	91	59	+4	5	0	76	73
2010	Jul	88	69	78	96	54	+2	14	0	79	75
2010	Aug	89	67	78	97	54	+3	15	0	77	74
2010	Sep	84	57	71	95	45	+3	9	0	71	67
2010	Oct	73	46	59	88	33	+2	0	0	62	57

		PRECIPITATION						
			DEPARTURE			GREATEST		
			FROM	CUMULATIVE		24 HOUR	% RAIN	NO. DAYS
YEAR	MONTH	TOTAL	NORMAL	TOTAL	DEPARTURE	TOTAL	DAYS	>=.01
2010	Apr	2.74	-1.14	2.74	-1.14	1.01	27	8
2010	May	7.84	+3.37	10.58	+2.23	1.76	42	13
2010	Jun	4.61	+0.95	15.19	+3.18	0.70	40	12
2010	Jul	5.49	+0.49	20.68	+3.67	1.34	26	8
2010	Aug	1.54	-2.39	22.22	+1.28	0.87	13	4
2010	Sep	1.14	-2.06	23.36	-0.78	0.35	17	5
2010	Oct	1.22	-1.35	24.58	-2.13	0.94	10	3

Plant and Soil Science, U of KY
Weed Science Research

NO TILL CORN EARLY PREPLANT

Trial ID: C10001 Protocol ID: DUPONT--US-101-10-01
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: HELEN FLANIGAN

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9
	Pest Type				W Weed	W Weed	W Weed	W Weed	W Weed			W Weed	W Weed
	Pest Code				STEME	LAMAM	LACSE	AMBTR	ERICA			STEME	LAMAM
	Pest Scientific Name				Stellaria media	Lamium amplexicaule	Lactuca serriola	Ambrosia trifida	Conyza canadensis			Stellaria media	Lamium amplexicaule
	Pest Name				Common chickweed	Henbit	Prickly lettuce	Giant ragweed	Marestail			Common chickweed	Henbit
	Crop Code									ZEAMX	ZEAMX		
	BBCH Scale									BCOR	BCOR		
	Crop Scientific Name									Zea mays	Zea mays		
	Crop Name									Corn	Corn		
	Description												
	Rating Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	INJURY	CONTROL	CONTROL
	Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	Number of Subsamples				1	1	1	1	1	1	1	1	1
	SE Description				AT PLANTING	AT PLANTING	AT PLANTING	AT PLANTING	AT PLANTING				
	Rating Timing				2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK
	ARM Action Codes				P	P	P	P	P	P	P	P	P
	Number of Decimals				0	0	0	0	0	0	0	0	0
1	PREQUEL	1.6	OZ AI/A	14 D	99	99	99	99	99	0	0	99	99
	WEEDONE LV4	1	PT/A	14 D									
	COC	1	PT/A	14 D									
	ROUNDUP POWERMAX	16	FL OZ/A	35 D									
	AMS	3.7	% V/V	35 D									
2	PREQUEL	1.6	OZ AI/A	14 D	99	99	99	99	99	0	0	99	99
	WEEDONE LV4	1	PT/A	14 D									
	COC	1	PT/A	14 D									
	RESOLVE Q			35 D									
	ROUNDUP POWERMAX	16	FL OZ/A	35 D									
	AMS	3.7	% V/V	35 D									
3	PREQUEL	2.5	OZ AI/A	14 D	99	99	99	99	99	0	0	99	99
	WEEDONE LV4	1	PT/A	14 D									
	COC	1	PT/A	14 D									
	ROUNDUP POWERMAX	16	FL OZ/A	35 D									
	AMS	3.7	% V/V	35 D									
4	PREQUEL	1.6	OZ AI/A	14 D	99	99	99	99	99	0	0	99	99
	ABUNDIT	32	FL OZ/A	14 D									
	AMS	3.7	% V/V	14 D									
	WEEDONE LV4	1	PT/A	14 D									
	ROUNDUP POWERMAX	16	FL OZ/A	35 D									
	AMS	3.7	% V/V	35 D									
5	PREQUEL	2.5	OZ AI/A	14 D	99	99	99	99	99	0	0	99	99
	ABUNDIT	32	FL OZ/A	14 D									
	AMS	3.7	% V/V	14 D									
	WEEDONE LV4	1	PT/A	14 D									
	ROUNDUP POWERMAX	16	FL OZ/A	35 D									
	AMS	3.7	% V/V	35 D									

Plant and Soil Science, U of KY
Weed Science Research

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			W Weed	W Weed
Pest Code	STEME	LAMAM	LACSE	AMBTR	ERICA			STEME	LAMAM
Pest Scientific Name	Stellaria media	Lamium amplexicaule	Lactuca serriola	Ambrosia trifida	Conyza canadensis			Stellaria media	Lamium amplexicaule
Pest Name	Common chickweed	Henbit	Prickly lettuce	Giant ragweed	Marestail			Common chickweed	Henbit
Crop Code						ZEAMX	ZEAMX		
BBCH Scale						BCOR	BCOR		
Crop Scientific Name						Zea mays	Zea mays		
Crop Name						Corn	Corn		
Description									
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1	1	1	1	1
SE Description	AT PLANTING	AT PLANTING	AT PLANTING	AT PLANTING	AT PLANTING				
Rating Timing	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK
ARM Action Codes	P	P	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9
6	PREQUEL	1.6	OZ AI/A	14 D	99	99	99	99	99	0	0	99	99
	AATREX	1	LB AI/A	14 D									
	WEEDONE LV4	1	PT/A	14 D									
	COC	1	PT/A	14 D									
	ROUNDUP POWERMAX	16	FL OZ/A	35 D									
	AMS	3.7	% V/V	35 D									
7	PREQUEL	2.5	OZ AI/A	14 D	99	99	99	99	99	0	0	99	99
	AATREX	1	LB AI/A	14 D									
	WEEDONE LV4	1	PT/A	14 D									
	COC	1	PT/A	14 D									
	ROUNDUP POWERMAX	16	FL OZ/A	35 D									
	AMS	3.7	% V/V	35 D									
8	PREQUEL	1.6	OZ AI/A	14 D	99	99	99	99	99	0	0	99	99
	AATREX	1	LB AI/A	14 D									
	ABUNDIT	32	FL OZ/A	14 D									
	AMS	3.7	% V/V	14 D									
	WEEDONE LV4	1	PT/A	14 D									
	ROUNDUP POWERMAX	16	FL OZ/A	35 D									
	AMS	3.7	% V/V	35 D									
9	PREQUEL	2.5	OZ AI/A	14 D	99	99	99	99	99	0	0	99	99
	AATREX	1	LB AI/A	14 D									
	ABUNDIT	32	FL OZ/A	14 D									
	AMS	3.7	% V/V	14 D									
	WEEDONE LV4	1	PT/A	14 D									
	ROUNDUP POWERMAX	16	FL OZ/A	35 D									
	AMS	3.7	% V/V	35 D									
10	PREQUEL	1.6	OZ AI/A	14 D	99	99	99	99	99	0	0	99	99
	CINCH ATZ	1	QT/A	14 D									
	WEEDONE LV4	1	PT/A	14 D									
	COC	1	PT/A	14 D									
	ROUNDUP POWERMAX	16	FL OZ/A	35 D									
	AMS	3.7	% V/V	35 D									
11	PREQUEL	2.5	OZ AI/A	14 D	99	99	99	99	99	0	0	99	99
	CINCH ATZ	1	QT/A	14 D									
	WEEDONE LV4	1	PT/A	14 D									
	COC	1	PT/A	14 D									
	ROUNDUP POWERMAX	16	FL OZ/A	35 D									
	AMS	3.7	% V/V	35 D									

Plant and Soil Science, U of KY
Weed Science Research

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9
	Pest Type				W Weed	W Weed	W Weed	W Weed	W Weed			W Weed	W Weed
	Pest Code				STEME	LAMAM	LACSE	AMBTR	ERICA			STEME	LAMAM
	Pest Scientific Name				Stellaria media	Lamium amplexicaule	Lactuca serriola	Ambrosia trifida	Conyza canadensis			Stellaria media	Lamium amplexicaule
	Pest Name				Common chickweed	Henbit	Prickly lettuce	Giant ragweed	Marestail			Common chickweed	Henbit
	Crop Code									ZEAMX	ZEAMX		
	BBCH Scale									BCOR	BCOR		
	Crop Scientific Name									Zea mays	Zea mays		
	Crop Name									Corn	Corn		
	Description												
	Rating Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	INJURY	CONTROL	CONTROL
	Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	Number of Subsamples				1	1	1	1	1	1	1	1	1
	SE Description				AT PLANTING	AT PLANTING	AT PLANTING	AT PLANTING	AT PLANTING				
	Rating Timing				2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK
	ARM Action Codes				P	P	P	P	P	P	P	P	P
	Number of Decimals				0	0	0	0	0	0	0	0	0
12	PREQUEL	1.6	OZ AI/A	14 D	99	99	99	99	99	0	0	99	99
	CINCH ATZ	1	QT/A	14 D									
	ABUNDIT	32	FL OZ/A	14 D									
	AMS	3.7	% V/V	14 D									
	WEEDONE LV4	1	PT/A	14 D									
	ROUNDUP POWERMAX	16	FL OZ/A	35 D									
	AMS	3.7	% V/V	35 D									
13	PREQUEL	2.5	OZ AI/A	14 D	99	99	99	99	99	0	0	99	99
	CINCH ATZ	1	QT/A	14 D									
	ABUNDIT	32	FL OZ/A	14 D									
	AMS	3.7	% V/V	14 D									
	WEEDONE LV4	1	PT/A	14 D									
	ROUNDUP POWERMAX	16	FL OZ/A	35 D									
	AMS	3.7	% V/V	35 D									
14	PREQUEL	1.6	OZ AI/A	14 D	99	99	99	99	99	0	0	99	99
	SHARPEN	1	FL OZ/A	14 D									
	WEEDONE LV4	1	PT/A	14 D									
	COC	1	PT/A	14 D									
	AMS	3.7	% V/V	14 D									
	ROUNDUP POWERMAX	16	FL OZ/A	35 D									
	AMS	3.7	% V/V	35 D									
15	PREQUEL	2.5	OZ AI/A	14 D	99	99	99	99	99	0	0	99	99
	SHARPEN	1	FL OZ/A	14 D									
	WEEDONE LV4	1	PT/A	14 D									
	COC	1	PT/A	14 D									
	AMS	3.7	% V/V	14 D									
	ROUNDUP POWERMAX	16	FL OZ/A	35 D									
	AMS	3.7	% V/V	35 D									
16	ABUNDIT	32	FL OZ/A	14 D	99	99	99	99	99	0	0	99	99
	AMS	3.7	% V/V	14 D									
	WEEDONE LV4	1	PT/A	14 D									
	ROUNDUP POWERMAX	16	FL OZ/A	35 D									
	AMS	3.7	% V/V	35 D									
17	CHECK UNTREATED				0	0	0	0	0	0	0	0	0

Plant and Soil Science, U of KY
Weed Science Research

Pest Type			W Weed	W Weed	W Weed	W Weed	W Weed			W Weed	W Weed
Pest Code			STEME	LAMAM	LACSE	AMBTR	ERICA			STEME	LAMAM
Pest Scientific Name			Stellaria media	Lamium amplexicaule	Lactuca serriola	Ambrosia trifida	Conyza canadensis			Stellaria media	Lamium amplexicaule
Pest Name			Common chickweed	Henbit	Prickly lettuce	Giant ragweed	Marestail			Common chickweed	Henbit
Crop Code								ZEAMX	ZEAMX		
BBCH Scale								BCOR	BCOR		
Crop Scientific Name								Zea mays	Zea mays		
Crop Name								Corn	Corn		
Description											
Rating Type			CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	INJURY	CONTROL	CONTROL
Rating Unit			PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples			1	1	1	1	1	1	1	1	1
SE Description			AT PLANTING	AT PLANTING	AT PLANTING	AT PLANTING	AT PLANTING				
Rating Timing			2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK
ARM Action Codes			P	P	P	P	P	P	P	P	P
Number of Decimals			0	0	0	0	0	0	0	0	0
Trt No.	Treatment Name	Rate / Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9
18	CHECK UNTREATED			0	0	0	0	0	0	0	0	0
	LSD (P=.05)			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Standard Deviation			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CV			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Bartlett's X2			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	P(Bartlett's X2)			.	.	.	.	.	.	.	.	.
	Replicate F			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Replicate Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
	Treatment F			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Treatment Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Plant and Soil Science, U of KY
Weed Science Research

Pest Type			W Weed	W Weed	W Weed		W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code			LACSE	AMBTR	ERICA		STEME	LAMAM	LACSE	AMBTR	ERICA
Pest Scientific Name			Lactuca serriola	Ambrosia trifida	Conyza canadensis		Stellaria media	Lamium amplexicaule	Lactuca serriola	Ambrosia trifida	Conyza canadensis
Pest Name			Prickly lettuce	Giant ragweed	Marestail		Common chickweed	Henbit	Prickly lettuce	Giant ragweed	Marestail
Crop Code						ZEAMX					
BBCH Scale						BCOR					
Crop Scientific Name						Zea mays					
Crop Name						Corn					
Description											
Rating Type			CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit			PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples			1	1	1	1	1	1	1	1	1
SE Description						AT APPLICATION	AT APPLICATION	AT APPLICATION	AT APPLICATION	AT APPLICATION	AT APPLICATION
Rating Timing			4 WEEK	4 WEEK	4 WEEK	35D	35D	35D	35D	35D	35D
ARM Action Codes			P	P	P	P	P	P	P	P	P
Number of Decimals			0	0	0	0	0	0	0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	10	11	12	13	14	15	16	17	18
1	PREQUEL	1.6	OZ AI/A	14 D	99	85	92	0	99	99	99	82	89
	WEEDONE LV4	1	PT/A	14 D									
	COC	1	PT/A	14 D									
	ROUNDUP POWERMAX	16	FL OZ/A	35 D									
	AMS	3.7	% V/V	35 D									
2	PREQUEL	1.6	OZ AI/A	14 D	99	86	98	0	99	99	99	83	88
	WEEDONE LV4	1	PT/A	14 D									
	COC	1	PT/A	14 D									
	RESOLVE Q			35 D									
	ROUNDUP POWERMAX	16	FL OZ/A	35 D									
	AMS	3.7	% V/V	35 D									
3	PREQUEL	2.5	OZ AI/A	14 D	99	87	96	0	99	99	99	80	91
	WEEDONE LV4	1	PT/A	14 D									
	COC	1	PT/A	14 D									
	ROUNDUP POWERMAX	16	FL OZ/A	35 D									
	AMS	3.7	% V/V	35 D									
4	PREQUEL	1.6	OZ AI/A	14 D	99	79	99	0	99	99	99	73	99
	ABUNDIT	32	FL OZ/A	14 D									
	AMS	3.7	% V/V	14 D									
	WEEDONE LV4	1	PT/A	14 D									
	ROUNDUP POWERMAX	16	FL OZ/A	35 D									
	AMS	3.7	% V/V	35 D									
5	PREQUEL	2.5	OZ AI/A	14 D	99	91	99	0	99	99	99	82	99
	ABUNDIT	32	FL OZ/A	14 D									
	AMS	3.7	% V/V	14 D									
	WEEDONE LV4	1	PT/A	14 D									
	ROUNDUP POWERMAX	16	FL OZ/A	35 D									
	AMS	3.7	% V/V	35 D									

Plant and Soil Science, U of KY
Weed Science Research

Pest Type		W Weed	W Weed	W Weed		W Weed	W Weed	W Weed	W Weed	W Weed	
Pest Code		LACSE	AMBTR	ERICA		STEME	LAMAM	LACSE	AMBTR	ERICA	
Pest Scientific Name		Lactuca serriola	Ambrosia trifida	Conyza canadensis		Stellaria media	Lamium amplexicaule	Lactuca serriola	Ambrosia trifida	Conyza canadensis	
Pest Name		Prickly lettuce	Giant ragweed	Marestail		Common chickweed	Henbit	Prickly lettuce	Giant ragweed	Marestail	
Crop Code					ZEAMX						
BBCH Scale					BCOR						
Crop Scientific Name					Zea mays						
Crop Name					Corn						
Description											
Rating Type		CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
Number of Subsamples		1	1	1	1	1	1	1	1	1	
SE Description					AT APPLICATION	AT APPLICATION	AT APPLICATION	AT APPLICATION	AT APPLICATION	AT APPLICATION	
Rating Timing		4 WEEK	4 WEEK	4 WEEK	35D	35D	35D	35D	35D	35D	
ARM Action Codes		P	P	P	P	P	P	P	P	P	
Number of Decimals		0	0	0	0	0	0	0	0	0	

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	10	11	12	13	14	15	16	17	18
6	PREQUEL	1.6	OZ AI/A	14 D	99	90	96	0	99	99	99	87	91
	AATREX	1	LB AI/A	14 D									
	WEEDONE LV4	1	PT/A	14 D									
	COC	1	PT/A	14 D									
	ROUNDUP POWERMAX	16	FL OZ/A	35 D									
	AMS	3.7	% V/V	35 D									
7	PREQUEL	2.5	OZ AI/A	14 D	99	91	99	0	99	99	99	90	96
	AATREX	1	LB AI/A	14 D									
	WEEDONE LV4	1	PT/A	14 D									
	COC	1	PT/A	14 D									
	ROUNDUP POWERMAX	16	FL OZ/A	35 D									
	AMS	3.7	% V/V	35 D									
8	PREQUEL	1.6	OZ AI/A	14 D	99	90	99	0	99	99	99	87	99
	AATREX	1	LB AI/A	14 D									
	ABUNDIT	32	FL OZ/A	14 D									
	AMS	3.7	% V/V	14 D									
	WEEDONE LV4	1	PT/A	14 D									
	ROUNDUP POWERMAX	16	FL OZ/A	35 D									
	AMS	3.7	% V/V	35 D									
9	PREQUEL	2.5	OZ AI/A	14 D	99	92	99	0	99	99	99	85	99
	AATREX	1	LB AI/A	14 D									
	ABUNDIT	32	FL OZ/A	14 D									
	AMS	3.7	% V/V	14 D									
	WEEDONE LV4	1	PT/A	14 D									
	ROUNDUP POWERMAX	16	FL OZ/A	35 D									
	AMS	3.7	% V/V	35 D									
10	PREQUEL	1.6	OZ AI/A	14 D	99	91	99	0	99	99	99	86	99
	CINCH ATZ	1	QT/A	14 D									
	WEEDONE LV4	1	PT/A	14 D									
	COC	1	PT/A	14 D									
	ROUNDUP POWERMAX	16	FL OZ/A	35 D									
	AMS	3.7	% V/V	35 D									
11	PREQUEL	2.5	OZ AI/A	14 D	99	95	96	0	99	99	99	90	93
	CINCH ATZ	1	QT/A	14 D									
	WEEDONE LV4	1	PT/A	14 D									
	COC	1	PT/A	14 D									
	ROUNDUP POWERMAX	16	FL OZ/A	35 D									
	AMS	3.7	% V/V	35 D									

Plant and Soil Science, U of KY
Weed Science Research

Pest Type		W Weed	W Weed	W Weed		W Weed	W Weed	W Weed	W Weed	W Weed	
Pest Code		LACSE	AMBTR	ERICA		STEME	LAMAM	LACSE	AMBTR	ERICA	
Pest Scientific Name		Lactuca serriola	Ambrosia trifida	Conyza canadensis		Stellaria media	Lamium amplexicaule	Lactuca serriola	Ambrosia trifida	Conyza canadensis	
Pest Name		Prickly lettuce	Giant ragweed	Marestail		Common chickweed	Henbit	Prickly lettuce	Giant ragweed	Marestail	
Crop Code					ZEAMX						
BBCH Scale					BCOR						
Crop Scientific Name					Zea mays						
Crop Name					Corn						
Description											
Rating Type		CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
Number of Subsamples		1	1	1	1	1	1	1	1	1	
SE Description					AT APPLICATION	AT APPLICATION	AT APPLICATION	AT APPLICATION	AT APPLICATION	AT APPLICATION	
Rating Timing		4 WEEK	4 WEEK	4 WEEK	35D	35D	35D	35D	35D	35D	
ARM Action Codes		P	P	P	P	P	P	P	P	P	
Number of Decimals		0	0	0	0	0	0	0	0	0	

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	10	11	12	13	14	15	16	17	18
12	PREQUEL	1.6	OZ AI/A	14 D	99	94	99	0	99	99	99	93	99
	CINCH ATZ	1	QT/A	14 D									
	ABUNDIT	32	FL OZ/A	14 D									
	AMS	3.7	% V/V	14 D									
	WEEDONE LV4	1	PT/A	14 D									
	ROUNDUP POWERMAX	16	FL OZ/A	35 D									
	AMS	3.7	% V/V	35 D									
13	PREQUEL	2.5	OZ AI/A	14 D	99	94	99	0	99	99	99	88	99
	CINCH ATZ	1	QT/A	14 D									
	ABUNDIT	32	FL OZ/A	14 D									
	AMS	3.7	% V/V	14 D									
	WEEDONE LV4	1	PT/A	14 D									
	ROUNDUP POWERMAX	16	FL OZ/A	35 D									
	AMS	3.7	% V/V	35 D									
14	PREQUEL	1.6	OZ AI/A	14 D	99	93	99	0	99	99	99	85	98
	SHARPEN	1	FL OZ/A	14 D									
	WEEDONE LV4	1	PT/A	14 D									
	COC	1	PT/A	14 D									
	AMS	3.7	% V/V	14 D									
	ROUNDUP POWERMAX	16	FL OZ/A	35 D									
	AMS	3.7	% V/V	35 D									
15	PREQUEL	2.5	OZ AI/A	14 D	99	91	99	0	99	99	99	87	95
	SHARPEN	1	FL OZ/A	14 D									
	WEEDONE LV4	1	PT/A	14 D									
	COC	1	PT/A	14 D									
	AMS	3.7	% V/V	14 D									
	ROUNDUP POWERMAX	16	FL OZ/A	35 D									
	AMS	3.7	% V/V	35 D									
16	ABUNDIT	32	FL OZ/A	14 D	99	43	99	0	99	99	99	40	99
	AMS	3.7	% V/V	14 D									
	WEEDONE LV4	1	PT/A	14 D									
	ROUNDUP POWERMAX	16	FL OZ/A	35 D									
	AMS	3.7	% V/V	35 D									
17	CHECK UNTREATED				0	0	0	0	0	0	0	0	0

Plant and Soil Science, U of KY
Weed Science Research

Pest Type			W Weed	W Weed	W Weed		W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code			LACSE	AMBTR	ERICA		STEME	LAMAM	LACSE	AMBTR	ERICA
Pest Scientific Name			Lactuca serriola	Ambrosia trifida	Conyza canadensis		Stellaria media	Lamium amplexicaule	Lactuca serriola	Ambrosia trifida	Conyza canadensis
Pest Name			Prickly lettuce	Giant ragweed	Marestail		Common chickweed	Henbit	Prickly lettuce	Giant ragweed	Marestail
Crop Code						ZEAMX					
BBCH Scale						BCOR					
Crop Scientific Name						Zea mays					
Crop Name						Corn					
Description											
Rating Type			CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit			PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples			1	1	1	1	1	1	1	1	1
SE Description						AT APPLICATION	AT APPLICATION	AT APPLICATION	AT APPLICATION	AT APPLICATION	AT APPLICATION
Rating Timing			4 WEEK	4 WEEK	4 WEEK	35D	35D	35D	35D	35D	35D
ARM Action Codes			P	P	P	P	P	P	P	P	P
Number of Decimals			0	0	0	0	0	0	0	0	0
Trt No.	Treatment Name	Rate Unit	Growth Stage	10	11	12	13	14	15	16	17	18
18	CHECK UNTREATED			0	0	0	0	0	0	0	0	0
LSD (P=.05)				0.0	20.5	4.0	0.0	0.0	0.0	0.0	22.1	7.9
Standard Deviation				0.0	12.3	2.4	0.0	0.0	0.0	0.0	13.3	4.7
CV				0.0	15.89	2.75	0.0	0.0	0.0	0.0	18.15	5.53
Bartlett's X2				0.0	32.729	3.037	0.0	0.0	0.0	0.0	18.393	4.676
P(Bartlett's X2)				.	0.005*	0.552	.	.	.	.	0.189	0.699
Replicate F				0.000	2.400	1.290	0.000	0.000	0.000	0.000	2.758	0.511
Replicate Prob(F)				1.0000	0.1059	0.2883	1.0000	1.0000	1.0000	1.0000	0.0776	0.6044
Treatment F				0.000	18.461	525.859	0.000	0.000	0.000	0.000	14.281	131.643
Treatment Prob(F)				1.0000	0.0001	0.0001	1.0000	1.0000	1.0000	1.0000	0.0001	0.0001

Pest Type	
Pest Code	
Pest Scientific Name	
Pest Name	
Crop Code	ZEAMX
BBCH Scale	BCOR
Crop Scientific Name	Zea mays
Crop Name	Corn
Description	15.5%
Rating Type	YIELD
Rating Unit	BU
Number of Subsamples	1
SE Description	
Rating Timing	
ARM Action Codes	TY1
Number of Decimals	0

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	22
1	PREQUEL	1.6	OZ AI/A	14 D	167
	WEEDONE LV4	1	PT/A	14 D	
	COC	1	PT/A	14 D	
	ROUNDUP POWERMAX	16	FL OZ/A	35 D	
	AMS	3.7	% V/V	35 D	
2	PREQUEL	1.6	OZ AI/A	14 D	156
	WEEDONE LV4	1	PT/A	14 D	
	COC	1	PT/A	14 D	
	RESOLVE Q			35 D	
	ROUNDUP POWERMAX	16	FL OZ/A	35 D	
	AMS	3.7	% V/V	35 D	
3	PREQUEL	2.5	OZ AI/A	14 D	176
	WEEDONE LV4	1	PT/A	14 D	
	COC	1	PT/A	14 D	
	ROUNDUP POWERMAX	16	FL OZ/A	35 D	
	AMS	3.7	% V/V	35 D	
4	PREQUEL	1.6	OZ AI/A	14 D	156
	ABUNDIT	32	FL OZ/A	14 D	
	AMS	3.7	% V/V	14 D	
	WEEDONE LV4	1	PT/A	14 D	
	ROUNDUP POWERMAX	16	FL OZ/A	35 D	
	AMS	3.7	% V/V	35 D	
5	PREQUEL	2.5	OZ AI/A	14 D	174
	ABUNDIT	32	FL OZ/A	14 D	
	AMS	3.7	% V/V	14 D	
	WEEDONE LV4	1	PT/A	14 D	
	ROUNDUP POWERMAX	16	FL OZ/A	35 D	
	AMS	3.7	% V/V	35 D	

Plant and Soil Science, U of KY
Weed Science Research

Pest Type	
Pest Code	
Pest Scientific Name	
Pest Name	
Crop Code	ZEAMX
BBCH Scale	BCOR
Crop Scientific Name	Zea mays
Crop Name	Corn
Description	15.5%
Rating Type	YIELD
Rating Unit	BU
Number of Subsamples	1
SE Description	
Rating Timing	
ARM Action Codes	TY1
Number of Decimals	0

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	22
6	PREQUEL	1.6	OZ AI/A	14 D	181
	AATREX	1	LB AI/A	14 D	
	WEEDONE LV4	1	PT/A	14 D	
	COC	1	PT/A	14 D	
	ROUNDUP POWERMAX	16	FL OZ/A	35 D	
	AMS	3.7	% V/V	35 D	
7	PREQUEL	2.5	OZ AI/A	14 D	179
	AATREX	1	LB AI/A	14 D	
	WEEDONE LV4	1	PT/A	14 D	
	COC	1	PT/A	14 D	
	ROUNDUP POWERMAX	16	FL OZ/A	35 D	
	AMS	3.7	% V/V	35 D	
8	PREQUEL	1.6	OZ AI/A	14 D	163
	AATREX	1	LB AI/A	14 D	
	ABUNDIT	32	FL OZ/A	14 D	
	AMS	3.7	% V/V	14 D	
	WEEDONE LV4	1	PT/A	14 D	
	ROUNDUP POWERMAX	16	FL OZ/A	35 D	
	AMS	3.7	% V/V	35 D	
9	PREQUEL	2.5	OZ AI/A	14 D	165
	AATREX	1	LB AI/A	14 D	
	ABUNDIT	32	FL OZ/A	14 D	
	AMS	3.7	% V/V	14 D	
	WEEDONE LV4	1	PT/A	14 D	
	ROUNDUP POWERMAX	16	FL OZ/A	35 D	
	AMS	3.7	% V/V	35 D	
10	PREQUEL	1.6	OZ AI/A	14 D	174
	CINCH ATZ	1	QT/A	14 D	
	WEEDONE LV4	1	PT/A	14 D	
	COC	1	PT/A	14 D	
	ROUNDUP POWERMAX	16	FL OZ/A	35 D	
	AMS	3.7	% V/V	35 D	
11	PREQUEL	2.5	OZ AI/A	14 D	182
	CINCH ATZ	1	QT/A	14 D	
	WEEDONE LV4	1	PT/A	14 D	
	COC	1	PT/A	14 D	
	ROUNDUP POWERMAX	16	FL OZ/A	35 D	
	AMS	3.7	% V/V	35 D	

Plant and Soil Science, U of KY
Weed Science Research

Pest Type	
Pest Code	
Pest Scientific Name	
Pest Name	
Crop Code	ZEAMX
BBCH Scale	BCOR
Crop Scientific Name	Zea mays
Crop Name	Corn
Description	15.5%
Rating Type	YIELD
Rating Unit	BU
Number of Subsamples	1
SE Description	
Rating Timing	
ARM Action Codes	TY1
Number of Decimals	0

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	22
12	PREQUEL	1.6	OZ AI/A	14 D	176
	CINCH ATZ	1	QT/A	14 D	
	ABUNDIT	32	FL OZ/A	14 D	
	AMS	3.7	% V/V	14 D	
	WEEDONE LV4	1	PT/A	14 D	
	ROUNDUP POWERMAX	16	FL OZ/A	35 D	
	AMS	3.7	% V/V	35 D	
13	PREQUEL	2.5	OZ AI/A	14 D	174
	CINCH ATZ	1	QT/A	14 D	
	ABUNDIT	32	FL OZ/A	14 D	
	AMS	3.7	% V/V	14 D	
	WEEDONE LV4	1	PT/A	14 D	
	ROUNDUP POWERMAX	16	FL OZ/A	35 D	
	AMS	3.7	% V/V	35 D	
14	PREQUEL	1.6	OZ AI/A	14 D	170
	SHARPEN	1	FL OZ/A	14 D	
	WEEDONE LV4	1	PT/A	14 D	
	COC	1	PT/A	14 D	
	AMS	3.7	% V/V	14 D	
	ROUNDUP POWERMAX	16	FL OZ/A	35 D	
	AMS	3.7	% V/V	35 D	
15	PREQUEL	2.5	OZ AI/A	14 D	164
	SHARPEN	1	FL OZ/A	14 D	
	WEEDONE LV4	1	PT/A	14 D	
	COC	1	PT/A	14 D	
	AMS	3.7	% V/V	14 D	
	ROUNDUP POWERMAX	16	FL OZ/A	35 D	
	AMS	3.7	% V/V	35 D	
16	ABUNDIT	32	FL OZ/A	14 D	141
	AMS	3.7	% V/V	14 D	
	WEEDONE LV4	1	PT/A	14 D	
	ROUNDUP POWERMAX	16	FL OZ/A	35 D	
	AMS	3.7	% V/V	35 D	
17	CHECK UNTREATED				64

Plant and Soil Science, U of KY
Weed Science Research

Pest Type	
Pest Code	
Pest Scientific Name	
Pest Name	
Crop Code	ZEAMX
BBCH Scale	BCOR
Crop Scientific Name	Zea mays
Crop Name	Corn
Description	15.5%
Rating Type	YIELD
Rating Unit	BU
Number of Subsamples	1
SE Description	
Rating Timing	
ARM Action Codes	TY1
Number of Decimals	0

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	22
18	CHECK UNTREATED				56
LSD (P=.05)					29.5
Standard Deviation					17.7
CV					11.3
Bartlett's X2					27.348
P(Bartlett's X2)					0.053
Replicate F					0.278
Replicate Prob(F)					0.7593
Treatment F					12.829
Treatment Prob(F)					0.0001

Plant and Soil Science, U of KY
Weed Science Research

NO TILL CORN EARLY PREPLANT

Trial ID: C10001 Protocol ID: DUPONT--US-101-10-01
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: HELEN FLANIGAN

Pest Type
W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop
Pest Code
STEME, Stellaria media, = US
LAMAM, Lamium amplexicaule, = US
LACSE, Lactuca serriola, = US
AMBTR, Ambrosia trifida, = US
ERICA, Conyza canadensis, = US
Crop Code
ZEAMX, BCOR, Zea mays, = US
Rating Type
YIELD = yield
Rating Unit
PERCENT = percent
BU = bushel
ARM Action Codes
P = Rating scale of 0 to 100 (e.g. % control or injury)
TY1 = 4.06976*20

Plant and Soil Science, U of KY
Weed Science Research

NO TILL CORN EARLY PREPLANT

Trial ID: C10001 Protocol ID: DUPONT--US-101-10-01
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: HELEN FLANIGAN

General Trial Information

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST WEED SCIENCE
Investigator: Charles H. Slack

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 4-14-2010

Trial Location

City: LEXINGTON USA 49.376656 - 24.53833
State/Prov.: KENTUCKY -124.715843 - -66.968887
Postal Code: 40511
Country: USA

Personnel

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST WEED SCIENCE
Affiliation: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING
Location: LEXINGTON, KY
Postal Code: 40546 **E-mail:** cslack@uky.edu
Mobile No.: 859-227-3355
Investigator: Charles H. Slack
Affiliation: University of Kentucky
Location: Lexington, KY
Postal Code: 40546 **E-mail:** cslack@uky.edu

Other Personnel

Role	Name	Other
Research Analyst	Sara Carter	sara.carter@uky.edu

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC 62 54
BBCH Scale: BCOR **Planting Date:** 4-29-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDTRA medium/trashy **Soil Temperature, Unit:** 55 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-5-2010
Harvest Date: 9-14-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 38 FT
% Standard Moisture: 15.5

Plant and Soil Science, U of KY
Weed Science Research

Pest Description

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

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

Pest 3 Type: W **Code:** LACSE Lactuca serriola
Common Name: Prickly lettuce

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

Pest 5 Type: W **Code:** ERICA Conyza canadensis
Common Name: Marestail

Site and Design

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

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.6 **Texture:** SIL silt loam
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY SILT LOAM
% Clay: 32 **CEC:** 17 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

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

Application Description

	A	B
Application Date:	4-14-2010	6-2-2010
Time of Day:	10 AM	5 PM
Application Method:	SPRAY	SPRAY
Application Timing:	14D	35D
Application Placement:	BROFOL	BANFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	75 F	88 F
% Relative Humidity:	60	50
Wind Velocity, Unit:	8 MPH	6 MPH
Wind Direction:	SW	SW
Soil Temperature, Unit:	50 F	72 F
Soil Moisture:	NORMAL	GOOD
% Cloud Cover:	10	10
Next Rain Occurred On:	4-16-2010	6-4-2010

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Height, Unit:		18 IN

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	STEME W	STEME W
Height, Unit:	6 IN	
Pest 2 Code, Type, Scale:	LAMAM W	LAMAM W
Height, Unit:	6 IN	
Pest 3 Code, Type, Scale:	LACSE W	LACSE W
Height, Unit:	8 IN	
Pest 4 Code, Type, Scale:	AMBTR W	AMBTR W
Height, Unit:	2 IN	6 IN
Pest 5 Code, Type, Scale:	ERICA W	ERICA W
Height, Unit:	4 IN	8 IN

Application Equipment

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

Plant and Soil Science, U of KY
Weed Science Research

NO TILL CORN EARLY PREPLANT II

Trial ID: C10002 Protocol ID: DOW-RR-CORN
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: MARVIN SCHULTZ

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9
	Pest Type				W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
	Pest Code				STEME	LAMAM	LACSE	AMBTR	ERICA	CHEAL	AMACH	IPOSS	AMBTR
	Pest Scientific Name				Stellaria media	Lamium amplexicaule	Lactuca serriola	Ambrosia trifida	Conyza canadensis	Chenopodium album	Amaranthus hybridus	Ipomoea sp.	Ambrosia trifida
	Pest Name				Common chickweed	Henbit	Prickly lettuce	Giant ragweed	Marestail	Common lambsquarters	Smooth pigweed	Morning glory	Giant ragweed
	Crop Code												
	BBCH Scale												
	Crop Scientific Name												
	Crop Name												
	Description				AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
	Rating Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
	Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	Number of Subsamples				1	1	1	1	1	1	1	1	1
	Rating Timing				2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2WEEK	4 WEEK
	ARM Action Codes				P	P	P	P	P	P	P	P	P
	Number of Decimals				0	0	0	0	0	0	0	0	0
1	SURESTART	1.75	PT/A	PRE	99	99	99	96	95	99	99	99	96
	DURANGO DMA	24	OZ/A	MP									
	AMS	2	%V/V	MP									
2	SURESTART	2.5	PT/A	PRE	99	99	99	99	93	99	99	99	99
	DURANGO DMA	24	OZ/A	MP									
	AMS	2	%V/V	MP									
3	SURESTART	3	PT/A	21D EPP	99	99	99	99	99	99	99	99	99
	AATREX	1	LB AI/A	21D EPP									
	DURANGO DMA	24	OZ/A	21D EPP									
	WEEDONE LV4	1	PT/A	21D EPP									
	AMS	2	%V/V	21D EPP									
	DURANGO DMA	24	OZ/A	MP									
	AMS	2	%V/V	MP									
4	SURESTART	1.75	PT/A	EP	99	99	99	99	89	99	99	99	99
	DURANGO DMA	24	OZ/A	EP									
	AMS	2	%V/V	EP									
	LSD (P=.05)				0.0	0.0	0.0	5.2	8.2	0.0	0.0	0.0	5.2
	Standard Deviation				0.0	0.0	0.0	2.6	4.1	0.0	0.0	0.0	2.6
	CV				0.0	0.0	0.0	2.64	4.38	0.0	0.0	0.0	2.64
	Bartlett's X2				0.0	0.0	0.0	0.0	4.297	0.0	0.0	0.0	0.0
	P(Bartlett's X2)				.	.	.	.	0.117	.	.	.	.
	Replicate F				0.000	0.000	0.000	1.000	2.501	0.000	0.000	0.000	1.000
	Replicate Prob(F)				1.0000	1.0000	1.0000	0.4219	0.1622	1.0000	1.0000	1.0000	0.4219
	Treatment F				0.000	0.000	0.000	1.000	2.904	0.000	0.000	0.000	1.000
	Treatment Prob(F)				1.0000	1.0000	1.0000	0.4547	0.1234	1.0000	1.0000	1.0000	0.4547

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Pest Type				W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code				ERICA	CHEAL	AMACH	IPOSS	AMBTR	ERICA	CHEAL	AMACH	IPOSS
Pest Scientific Name				Conyza canadensis	Chenopodium album	Amaranthus hybridus	Ipomoea sp.	Ambrosia trifida	Conyza canadensis	Chenopodium album	Amaranthus hybridus	Ipomoea sp.
Pest Name				Marestail	Common lambsquarters	Smooth pigweed	Morning glory	Giant ragweed	Marestail	Common lambsquarters	Smooth pigweed	Morning glory
Crop Code												
BBCH Scale												
Crop Scientific Name												
Crop Name												
Description				AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL	AFTER APPL
Rating Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples				1	1	1	1	1	1	1	1	1
Rating Timing				4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes				P	P	P	P	P	P	P	P	P
Number of Decimals				0	0	0	0	0	0	0	0	0
Trt No. Treatment Name	Rate	Rate Unit	Growth Stage	10	11	12	13	14	15	16	17	18
1 SURESTART	1.75	PT/A	PRE	95	99	99	99	93	95	99	99	99
DURANGO DMA	24	OZ/A	MP									
AMS	2	% V/V	MP									
2 SURESTART	2.5	PT/A	PRE	93	99	99	99	99	93	99	99	99
DURANGO DMA	24	OZ/A	MP									
AMS	2	% V/V	MP									
3 SURESTART	3	PT/A	21D EPP	99	99	99	99	99	99	99	99	99
AATREX	1	LB AI/A	21D EPP									
DURANGO DMA	24	OZ/A	21D EPP									
WEEDONE LV4	1	PT/A	21D EPP									
AMS	2	% V/V	21D EPP									
DURANGO DMA	24	OZ/A	MP									
AMS	2	% V/V	MP									
4 SURESTART	1.75	PT/A	EP	89	99	99	99	99	89	99	99	99
DURANGO DMA	24	OZ/A	EP									
AMS	2	% V/V	EP									
LSD (P=.05)				8.2	0.0	0.0	0.0	11.0	8.2	0.0	0.0	0.0
Standard Deviation				4.1	0.0	0.0	0.0	5.5	4.1	0.0	0.0	0.0
CV				4.38	0.0	0.0	0.0	5.63	4.38	0.0	0.0	0.0
Bartlett's X2				4.297	0.0	0.0	0.0	0.0	4.297	0.0	0.0	0.0
P(Bartlett's X2)				0.117	.	.	.	.	0.117	.	.	.
Replicate F				2.501	0.000	0.000	0.000	1.000	2.501	0.000	0.000	0.000
Replicate Prob(F)				0.1622	1.0000	1.0000	1.0000	0.4219	0.1622	1.0000	1.0000	1.0000
Treatment F				2.904	0.000	0.000	0.000	1.000	2.904	0.000	0.000	0.000
Treatment Prob(F)				0.1234	1.0000	1.0000	1.0000	0.4547	0.1234	1.0000	1.0000	1.0000

Pest Type	
Pest Code	
Pest Scientific Name	
Pest Name	
Crop Code	ZEAMX
BBCH Scale	BCOR
Crop Scientific Name	Zea mays
Crop Name	Corn
Description	
Rating Type	YIELD
Rating Unit	BU
Number of Subsamples	1
Rating Timing	
ARM Action Codes	TY1
Number of Decimals	0

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	22
1	SURESTART	1.75	PT/A	PRE	156
	DURANGO DMA	24	OZ/A	MP	
	AMS	2	% V/V	MP	
2	SURESTART	2.5	PT/A	PRE	154
	DURANGO DMA	24	OZ/A	MP	
	AMS	2	% V/V	MP	
3	SURESTART	3	PT/A	21D EPP	186
	AATREX	1	LB AI/A	21D EPP	
	DURANGO DMA	24	OZ/A	21D EPP	
	WEEDONE LV4	1	PT/A	21D EPP	
	AMS	2	% V/V	21D EPP	
	DURANGO DMA	24	OZ/A	MP	
	AMS	2	% V/V	MP	
4	SURESTART	1.75	PT/A	EP	151
	DURANGO DMA	24	OZ/A	EP	
	AMS	2	% V/V	EP	
LSD (P=.05)					15.0
Standard Deviation					7.5
CV					4.65
Bartlett's X2					3.938
P(Bartlett's X2)					0.268
Replicate F					0.720
Replicate Prob(F)					0.5245
Treatment F					14.432
Treatment Prob(F)					0.0038

Plant and Soil Science, U of KY
Weed Science Research

NO TILL CORN EARLY PREPLANT II

Trial ID: C10002 Protocol ID: DOW-RR-CORN
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: MARVIN SCHULTZ

Pest Type
W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop
Pest Code
STEME, Stellaria media, = US
LAMAM, Lamium amplexicaule, = US
LACSE, Lactuca serriola, = US
AMBTR, Ambrosia trifida, = US
ERICA, Conyza canadensis, = US
CHEAL, Chenopodium album, = US
AMACH, Amaranthus hybridus, = US
IPOSS, Ipomoea sp., = US
Crop Code
ZEAMX, BCOR, Zea mays, = US
Rating Type
YIELD = yield
Rating Unit
PERCENT = percent
BU = bushel
ARM Action Codes
P = Rating scale of 0 to 100 (e.g. % control or injury)
TY1 = 4.093985*20*(100-21)/84.5

Plant and Soil Science, U of KY
Weed Science Research

NO TILL CORN EARLY PREPLANT II

Trial ID: C10002 Protocol ID: DOW-RR-CORN
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: MARVIN SCHULTZ

General Trial Information

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Investigator: Charles H. Slack

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 4-7-2010

Trial Location

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

Personnel

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Affiliation: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING
Location: LEXINGTON, KY
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu
Mobile No.: 859-227-3355
Investigator: Charles H. Slack
Affiliation: University of Kentucky
Location: Lexington, KY
Postal Code: 40546 **E-mail:** cslack@uky.edu

Other Personnel

Role	Name	Other
Research Analyst	Sara Carter	sara.carter@uky.edu

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC 62 54
BBCH Scale: BCOR **Planting Date:** 4-29-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDTRA medium/trashy **Soil Temperature, Unit:** 53 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-5-2010
Harvest Date: 9-14-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 38 FT
% Standard Moisture: 15.5

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Pest Description

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

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

Pest 3 Type: W **Code:** LACSE Lactuca serriola
Common Name: Prickly lettuce

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

Pest 5 Type: W **Code:** ERICA Conyza canadensis
Common Name: Marestail

Pest 6 Type: W **Code:** CHEAL Chenopodium album
Common Name: Common lambsquarters

Pest 7 Type: W **Code:** AMACH Amaranthus hybridus
Common Name: Smooth pigweed

Pest 8 Type: W **Code:** IPOSS Ipomoea sp.
Common Name: Morning glory

Site and Design

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

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.6 **Texture:** SIL silt loam
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY SILT LOAM
% Clay: 32 **CEC:** 17 **Fert. Level:** E excellent
Soil Drainage: E excellent
Analyzed By:

Moisture and Weather Conditions

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

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Application Description

	A	B	C	D
Application Date:	4-7-2010	4-30-2010	5-20-2010	5-20-2010
Time of Day:	10 AM	10 AM	10 AM	10 AM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	21D	PRE	EP	MP
Application Placement:	BROFOL	BROFOL	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	C H SLACK	C H SLACK
Air Temperature, Unit:	75 F	74 F	65 F	65 F
% Relative Humidity:	60	41	68	68
Wind Velocity, Unit:	8 MPH	10 MPH	6 MPH	6 MPH
Wind Direction:	SW	SW	ESE	ESE
Soil Temperature, Unit:	50 F	58 F	61 F	61 F
Soil Moisture:	NORMAL	GOOD	EXCELL	EXCELL
% Cloud Cover:	10	10	20	20
Next Rain Occurred On:	4-8-2010	5-1-2010	5-21-2010	5-21-2010

Crop Stage At Each Application

	A	B	C	D
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Height, Unit:			15 IN	15 IN

Pest Stage At Each Application

	A	B	C	D
Pest 1 Code, Type, Scale:	STEME W	STEME W	STEME W	STEME W
Height, Unit:	3 IN	3 IN		
Pest 2 Code, Type, Scale:	LAMAM W	LAMAM W	LAMAM W	LAMAM W
Height, Unit:	4 IN	5 IN		
Pest 3 Code, Type, Scale:	LACSE W	LACSE W	LACSE W	LACSE W
Height, Unit:	5 IN	6 IN		
Pest 4 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W	AMBTR W
Height, Unit:		2 IN	5 IN	5 IN
Pest 5 Code, Type, Scale:	ERICA W	ERICA W	ERICA W	ERICA W
Height, Unit:	2 IN	4 IN	5 IN	5 IN
Pest 6 Code, Type, Scale:	CHEAL W	CHEAL W	CHEAL W	CHEAL W
Height, Unit:		1 IN	3 IN	3 IN
Pest 7 Code, Type, Scale:	AMACH W	AMACH W	AMACH W	AMACH W
Height, Unit:		1 IN	3 IN	3 IN
Pest 8 Code, Type, Scale:	IPOSS W	IPOSS W	IPOSS W	IPOSS W
Height, Unit:			1 IN	1

Application Equipment

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

Plant and Soil Science, U of KY
Weed Science Research

NO TILL CORN EARLY PREPLANT III

Trial ID: C10003 Protocol ID: VALENT-CORN-EPP
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: JOHN CRANMER

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9
	Pest Type					W Weed	W Weed	W Weed	W Weed	W Weed	W Weed		W Weed
	Pest Code					STEME	LAMAM	LACSE	SETFA	AMBTR	ERICA		STEME
	Pest Scientific Name					Stellaria media	Lamium amplexicaule	Lactuca serriola	Setaria faberi	Ambrosia trifida	Conyza canadensis		Stellaria media
	Pest Name					Common chickweed	Henbit	Prickly lettuce	Giant foxtail	Giant ragweed	Marestail		Common chickweed
	Crop Code				ZEAMX							ZEAMX	
	BBCH Scale				BCOR							BCOR	
	Crop Scientific Name				Zea mays							Zea mays	
	Crop Name				Corn							Corn	
	Description												
	Rating Date				5-14-2010	5-14-2010	5-14-2010	5-14-2010	5-14-2010	5-14-2010	5-14-2010	5-28-2010	5-28-2010
	Rating Type				INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
	Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	Number of Subsamples				1	1	1	1	1	1	1	1	1
	SE Description												
	Rating Timing				2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK
	Days After First/Last Applic.				24 14	24 14	24 14	24 14	24 14	24 14	24 14	38 28	38 28
	Plant-Eval Interval				15 DP-1	15 DP-1	15 DP-1	15 DP-1	15 DP-1	15 DP-1	15 DP-1	29 DP-1	29 DP-1
	Days After Emergence				9 DE-1	9 DE-1	9 DE-1	9 DE-1	9 DE-1	9 DE-1	9 DE-1	23 DE-	23 DE-
	ARM Action Codes				P	P	P	P	P	P	P	P	P
	Number of Decimals				0	0	0	0	0	0	0	0	0
1	CHECK UNTREATED				0	0	0	0	0	0	0	0	0
2	ROUNDUP POWERMAX	22	FL OZ/A	7 DAY	0	99	99	99	99	99	99	0	99
	AMS	3.7	% V/V	7 DAY									
	ROUNDUP POWERMAX	22	FL OZ/A	42 DAY									
	AMS	3.7	% V/V	42 DAY									
3	ROUNDUP POWERMAX	22	FL OZ/A	7 DAY	0	99	99	99	99	99	99	0	99
	FIERCE	3	OZ/A	7 DAY									
	AMS	3.7	% V/V	7 DAY									
	ROUNDUP POWERMAX	22	FL OZ/A	42 DAY									
	AATREX	1	QT/A	42 DAY									
	AMS	3.7	% V/V	42 DAY									
4	ROUNDUP POWERMAX	22	FL OZ/A	7 DAY	0	99	99	99	99	99	99	0	99
	VALOR SX	2	OZ/A	7 DAY									
	AMS	3.7	% V/V	7 DAY									
	ROUNDUP POWERMAX	22	FL OZ/A	42 DAY									
	AATREX	1	QT/A	42 DAY									
	AMS	3.7	% V/V	42 DAY									
5	ROUNDUP ORIGINAL MAX	22	FL OZ/A	PRE	0	99	99	99	99	99	99	0	99
	AMS	3.7	% V/V	PRE									
	BICEP II MAGNUM	2.1	QT/A	PRE									
	ROUNDUP POWERMAX	22	FL OZ/A	42 DAY									
	AMS	3.7	% V/V	42 DAY									
6	ROUNDUP POWERMAX	22	FL OZ/A	PRE	0	99	99	99	99	99	90	0	99
	AMS	3.7	% V/V	PRE									
	LEXAR	1.5	QT/A	PRE									
	ROUNDUP POWERMAX	22	FL OZ/A	42 DAY									
	AMS	3.7	% V/V	42 DAY									

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Pest Type				W Weed	W Weed	W Weed	W Weed	W Weed	W Weed		W Weed
Pest Code				STEME	LAMAM	LACSE	SETFA	AMBTR	ERICA		STEME
Pest Scientific Name				Stellaria media	Lamium amplexicaule	Lactuca serriola	Setaria faberi	Ambrosia trifida	Conyza canadensis		Stellaria media
Pest Name				Common chickweed	Henbit	Prickly lettuce	Giant foxtail	Giant ragweed	Marestail		Common chickweed
Crop Code				ZEAMX						ZEAMX	
BBCH Scale				BCOR						BCOR	
Crop Scientific Name				Zea mays						Zea mays	
Crop Name				Corn						Corn	
Description											
Rating Date				5-14-2010	5-14-2010	5-14-2010	5-14-2010	5-14-2010	5-14-2010	5-28-2010	5-28-2010
Rating Type				INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples				1	1	1	1	1	1	1	1
SE Description											
Rating Timing				2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.				24 14	24 14	24 14	24 14	24 14	24 14	38 28	38 28
Plant-Eval Interval				15 DP-1	15 DP-1	15 DP-1	15 DP-1	15 DP-1	15 DP-1	29 DP-1	29 DP-1
Days After Emergence				9 DE-1	9 DE-1	9 DE-1	9 DE-1	9 DE-1	9 DE-1	23 DE-	23 DE-
ARM Action Codes				P	P	P	P	P	P	P	P
Number of Decimals				0	0	0	0	0	0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9
7	ROUNDUP POWERMAX	22	FL OZ/A	PRE	0	99	99	99	99	99	99	0	99
	AMS	3.7	% V/V	PRE									
	CORVUS HERBICIDE	3	FL OZ/A	PRE									
	AATREX	1	QT/A	PRE									
	ROUNDUP POWERMAX	22	FL OZ/A	42 DAY									
	AMS	3.7	% V/V	42 DAY									
8	ROUNDUP POWERMAX	22	FL OZ/A	7 DAY	0	99	99	99	99	99	99	0	99
	FIERCE	3	OZ/A	7 DAY									
	AMS	3.7	% V/V	7 DAY									
	ROUNDUP POWERMAX	22	FL OZ/A	42 DAY									
	AMS	3.7	% V/V	42 DAY									
9	ROUNDUP POWERMAX	22	FL OZ/A	7 DAY	0	99	99	99	99	99	99	0	99
	INTEGRITY	13	FL OZ/A	7 DAY									
	AMS	3.7	% V/V	7 DAY									
	ROUNDUP POWERMAX	22	FL OZ/A	42 DAY									
	AMS	3.7	% V/V	42 DAY									
10	CHECK UNTREATED				0	0	0	0	0	0	0	0	0
LSD (P=.05)					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Standard Deviation					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CV					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bartlett's X2					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P(Bartlett's X2)					.	.	.	.	.	.	.	.	.
Replicate F					0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)					1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F					0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)					1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Plant and Soil Science, U of KY
Weed Science Research

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	10	11	12	13	14	15	16	17	18
Pest Type					W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	
Pest Code					LAMAM	LACSE	SETFA	AMBTR	ERICA	CHEAL	AMACH	IPOSS	
Pest Scientific Name					Lamium amplexicaule	Lactuca serriola	Setaria faberi	Ambrosia trifida	Conyza canadensis	Chenopodium album	Amaranthus hybridus	Ipomoea sp.	
Pest Name					Henbit	Prickly lettuce	Giant foxtail	Giant ragweed	Marestail	Common lambsquarters	Smooth pigweed	Morning glory	
Crop Code													ZEAMX
BBCH Scale													BCOR
Crop Scientific Name													Zea mays
Crop Name													Corn
Description													
Rating Date					5-28-2010	5-28-2010	5-28-2010	5-28-2010	5-28-2010	5-28-2010	5-28-2010	5-28-2010	6-2-2010
Rating Type					CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit					PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples					1	1	1	1	1	1	1	1	1
SE Description													BEFORE PO APPL
Rating Timing					4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	6 WEEK
Days After First/Last Applic.					38 28	38 28	38 28	38 28	38 28	38 28	38 28	38 28	43 33
Plant-Eval Interval					29 DP-1	29 DP-1	29 DP-1	29 DP-1	29 DP-1	29 DP-1	29 DP-1	29 DP-1	34 DP-1
Days After Emergence					23 DE-	23 DE-	23 DE-	23 DE-	23 DE-	23 DE-	23 DE-	23 DE-	28 DE-
ARM Action Codes					P	P	P	P	P	P	P	P	P
Number of Decimals					0	0	0	0	0	0	0	0	0
1	CHECK UNTREATED				0	0	0	0	0	0	0	0	0
2	ROUNDUP POWERMAX	22	FL OZ/A	7 DAY	99	99	0	57	99	0	0	0	0
	AMS	3.7	% V/V	7 DAY									
	ROUNDUP POWERMAX	22	FL OZ/A	42 DAY									
	AMS	3.7	% V/V	42 DAY									
3	ROUNDUP POWERMAX	22	FL OZ/A	7 DAY	99	99	99	63	99	99	96	47	0
	FIERCE	3	OZ/A	7 DAY									
	AMS	3.7	% V/V	7 DAY									
	ROUNDUP POWERMAX	22	FL OZ/A	42 DAY									
	AATREX	1	QT/A	42 DAY									
	AMS	3.7	% V/V	42 DAY									
4	ROUNDUP POWERMAX	22	FL OZ/A	7 DAY	99	99	99	59	99	98	94	70	0
	VALOR SX	2	OZ/A	7 DAY									
	AMS	3.7	% V/V	7 DAY									
	ROUNDUP POWERMAX	22	FL OZ/A	42 DAY									
	AATREX	1	QT/A	42 DAY									
	AMS	3.7	% V/V	42 DAY									
5	ROUNDUP ORIGINAL MAX	22	FL OZ/A	PRE	99	99	99	95	93	99	98	99	0
	AMS	3.7	% V/V	PRE									
	BICEP II MAGNUM	2.1	QT/A	PRE									
	ROUNDUP POWERMAX	22	FL OZ/A	42 DAY									
	AMS	3.7	% V/V	42 DAY									
6	ROUNDUP POWERMAX	22	FL OZ/A	PRE	99	99	99	80	95	99	99	95	0
	AMS	3.7	% V/V	PRE									
	LEXAR	1.5	QT/A	PRE									
	ROUNDUP POWERMAX	22	FL OZ/A	42 DAY									
	AMS	3.7	% V/V	42 DAY									

Plant and Soil Science, U of KY
Weed Science Research

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	10	11	12	13	14	15	16	17	18
	Pest Type				W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	
	Pest Code				LAMAM	LACSE	SETFA	AMBTR	ERICA	CHEAL	AMACH	IPOSS	
	Pest Scientific Name				Lamium amplexicaule	Lactuca serriola	Setaria faberi	Ambrosia trifida	Conyza canadensis	Chenopodium album	Amaranthus hybridus	Ipomoea sp.	
	Pest Name				Henbit	Prickly lettuce	Giant foxtail	Giant ragweed	Marestail	Common lambsquarters	Smooth pigweed	Morning glory	
	Crop Code												ZEAMX
	BBCH Scale												BCOR
	Crop Scientific Name												Zea mays
	Crop Name												Corn
	Description												
	Rating Date				5-28-2010	5-28-2010	5-28-2010	5-28-2010	5-28-2010	5-28-2010	5-28-2010	5-28-2010	6-2-2010
	Rating Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
	Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	Number of Subsamples				1	1	1	1	1	1	1	1	1
	SE Description												BEFORE PO APPL
	Rating Timing				4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	6 WEEK
	Days After First/Last Applic.				38 28	38 28	38 28	38 28	38 28	38 28	38 28	38 28	43 33
	Plant-Eval Interval				29 DP-1	29 DP-1	29 DP-1	29 DP-1	29 DP-1	29 DP-1	29 DP-1	29 DP-1	34 DP-1
	Days After Emergence				23 DE-	23 DE-	23 DE-	23 DE-	23 DE-	23 DE-	23 DE-	23 DE-	28 DE-
	ARM Action Codes				P	P	P	P	P	P	P	P	P
	Number of Decimals				0	0	0	0	0	0	0	0	0
7	ROUNDUP POWERMAX	22	FL OZ/A	PRE	99	99	99	94	99	99	96	98	0
	AMS	3.7	% V/V	PRE									
	CORVUS HERBICIDE	3	FL OZ/A	PRE									
	AATREX	1	QT/A	PRE									
	ROUNDUP POWERMAX	22	FL OZ/A	42 DAY									
	AMS	3.7	% V/V	42 DAY									
8	ROUNDUP POWERMAX	22	FL OZ/A	7 DAY	99	99	99	33	99	99	99	56	0
	FIERCE	3	OZ/A	7 DAY									
	AMS	3.7	% V/V	7 DAY									
	ROUNDUP POWERMAX	22	FL OZ/A	42 DAY									
	AMS	3.7	% V/V	42 DAY									
9	ROUNDUP POWERMAX	22	FL OZ/A	7 DAY	99	99	99	60	99	83	90	27	0
	INTEGRITY	13	FL OZ/A	7 DAY									
	AMS	3.7	% V/V	7 DAY									
	ROUNDUP POWERMAX	22	FL OZ/A	42 DAY									
	AMS	3.7	% V/V	42 DAY									
10	CHECK UNTREATED				0	0	0	0	0	0	0	0	0
LSD (P=.05)					0.0	0.0	0.0	28.3	4.3	8.1	6.0	31.2	0.0
Standard Deviation					0.0	0.0	0.0	16.5	2.5	4.7	3.5	18.2	0.0
CV					0.0	0.0	0.0	30.45	3.23	6.96	5.2	37.08	0.0
Bartlett's X2					0.0	0.0	0.0	13.007	0.078	4.621	1.432	12.437	0.0
P(Bartlett's X2)					.	.	.	0.072	0.78	0.032*	0.839	0.029*	.
Replicate F					0.000	0.000	0.000	3.487	1.576	1.060	0.445	0.186	0.000
Replicate Prob(F)					1.0000	1.0000	1.0000	0.0525	0.2341	0.3670	0.6477	0.8317	1.0000
Treatment F					0.000	0.000	0.000	12.695	803.084	298.344	529.440	15.259	0.000
Treatment Prob(F)					1.0000	1.0000	1.0000	0.0001	0.0001	0.0001	0.0001	0.0001	1.0000

Plant and Soil Science, U of KY
Weed Science Research

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	19	20	21	22	23	24	25	26
	Pest Type				W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
	Pest Code				STEME	LAMAM	LACSE	SETFA	AMBTR	ERICA	CHEAL	AMACH
	Pest Scientific Name				Stellaria media	Lamium amplexicaule	Lactuca serriola	Setaria faberi	Ambrosia trifida	Conyza canadensis	Chenopodium album	Amaranthus hybridus
	Pest Name				Common chickweed	Henbit	Prickly lettuce	Giant foxtail	Giant ragweed	Marestail	Common lambsquarters	Smooth pigweed
	Crop Code											
	BBCH Scale											
	Crop Scientific Name											
	Crop Name											
	Description											
	Rating Date				6-2-2010	6-2-2010	6-2-2010	6-2-2010	6-2-2010	6-2-2010	6-2-2010	6-2-2010
	Rating Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
	Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	Number of Subsamples				1	1	1	1	1	1	1	1
	SE Description				BEFORE PO APPL	BEFORE PO APPL	BEFORE PO APPL	BEFORE PO APPL	BEFORE PO APPL	BEFORE PO APPL	BEFORE PO APPL	BEFORE PO APPL
	Rating Timing				6 WEEK	6 WEEK	6 WEEK	6 WEEK	6 WEEK	6 WEEK	6 WEEK	6 WEEK
	Days After First/Last Applic.				43 33	43 33	43 33	43 33	43 33	43 33	43 33	43 33
	Plant-Eval Interval				34 DP-1	34 DP-1	34 DP-1	34 DP-1	34 DP-1	34 DP-1	34 DP-1	34 DP-1
	Days After Emergence				28 DE-	28 DE-	28 DE-	28 DE-	28 DE-	28 DE-	28 DE-	28 DE-
	ARM Action Codes				P	P	P	P	P	P	P	P
	Number of Decimals				0	0	0	0	0	0	0	0
1	CHECK UNTREATED				0	0	0	0	0	0	0	0
2	ROUNDUP POWERMAX	22	FL OZ/A	7 DAY	99	99	99	0	47	99	0	89
	AMS	3.7	% V/V	7 DAY								
	ROUNDUP POWERMAX	22	FL OZ/A	42 DAY								
	AMS	3.7	% V/V	42 DAY								
3	ROUNDUP POWERMAX	22	FL OZ/A	7 DAY	99	99	99	99	57	99	99	96
	FIERCE	3	OZ/A	7 DAY								
	AMS	3.7	% V/V	7 DAY								
	ROUNDUP POWERMAX	22	FL OZ/A	42 DAY								
	AATREX	1	QT/A	42 DAY								
	AMS	3.7	% V/V	42 DAY								
4	ROUNDUP POWERMAX	22	FL OZ/A	7 DAY	99	99	99	99	52	99	98	93
	VALOR SX	2	OZ/A	7 DAY								
	AMS	3.7	% V/V	7 DAY								
	ROUNDUP POWERMAX	22	FL OZ/A	42 DAY								
	AATREX	1	QT/A	42 DAY								
	AMS	3.7	% V/V	42 DAY								
5	ROUNDUP ORIGINAL MAX	22	FL OZ/A	PRE	99	99	99	99	94	93	99	96
	AMS	3.7	% V/V	PRE								
	BICEP II MAGNUM	2.1	QT/A	PRE								
	ROUNDUP POWERMAX	22	FL OZ/A	42 DAY								
	AMS	3.7	% V/V	42 DAY								
6	ROUNDUP POWERMAX	22	FL OZ/A	PRE	99	99	99	99	78	94	99	99
	AMS	3.7	% V/V	PRE								
	LEXAR	1.5	QT/A	PRE								
	ROUNDUP POWERMAX	22	FL OZ/A	42 DAY								
	AMS	3.7	% V/V	42 DAY								

Plant and Soil Science, U of KY
Weed Science Research

Pest Type			W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code			STEME	LAMAM	LACSE	SETFA	AMBTR	ERICA	CHEAL	AMACH
Pest Scientific Name			Stellaria media	Lamium amplexicaule	Lactuca serriola	Setaria faberi	Ambrosia trifida	Conyza canadensis	Chenopodium album	Amaranthus hybridus
Pest Name			Common chickweed	Henbit	Prickly lettuce	Giant foxtail	Giant ragweed	Marestail	Common lambsquarters	Smooth pigweed
Crop Code										
BBCH Scale										
Crop Scientific Name										
Crop Name										
Description										
Rating Date			6-2-2010	6-2-2010	6-2-2010	6-2-2010	6-2-2010	6-2-2010	6-2-2010	6-2-2010
Rating Type			CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit			PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples			1	1	1	1	1	1	1	1
SE Description			BEFORE PO APPL	BEFORE PO APPL	BEFORE PO APPL	BEFORE PO APPL	BEFORE PO APPL	BEFORE PO APPL	BEFORE PO APPL	BEFORE PO APPL
Rating Timing			6 WEEK	6 WEEK	6 WEEK	6 WEEK	6 WEEK	6 WEEK	6 WEEK	6 WEEK
Days After First/Last Applic.			43 33	43 33	43 33	43 33	43 33	43 33	43 33	43 33
Plant-Eval Interval			34 DP-1	34 DP-1	34 DP-1	34 DP-1	34 DP-1	34 DP-1	34 DP-1	34 DP-1
Days After Emergence			28 DE-	28 DE-	28 DE-	28 DE-	28 DE-	28 DE-	28 DE-	28 DE-
ARM Action Codes			P	P	P	P	P	P	P	P
Number of Decimals			0	0	0	0	0	0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	19	20	21	22	23	24	25	26
7	ROUNDUP POWERMAX	22	FL OZ/A	PRE	99	99	99	99	91	99	99	95
	AMS	3.7	% V/V	PRE								
	CORVUS HERBICIDE	3	FL OZ/A	PRE								
	AATREX	1	QT/A	PRE								
	ROUNDUP POWERMAX	22	FL OZ/A	42 DAY								
	AMS	3.7	% V/V	42 DAY								
8	ROUNDUP POWERMAX	22	FL OZ/A	7 DAY	99	99	99	99	10	99	99	99
	FIERCE	3	OZ/A	7 DAY								
	AMS	3.7	% V/V	7 DAY								
	ROUNDUP POWERMAX	22	FL OZ/A	42 DAY								
	AMS	3.7	% V/V	42 DAY								
9	ROUNDUP POWERMAX	22	FL OZ/A	7 DAY	99	99	99	99	43	99	80	89
	INTEGRITY	13	FL OZ/A	7 DAY								
	AMS	3.7	% V/V	7 DAY								
	ROUNDUP POWERMAX	22	FL OZ/A	42 DAY								
	AMS	3.7	% V/V	42 DAY								
10	CHECK UNTREATED				0	0	0	0	0	0	0	0
LSD (P=.05)					0.0	0.0	0.0	0.0	30.5	5.1	10.7	8.0
Standard Deviation					0.0	0.0	0.0	0.0	17.8	3.0	6.2	4.7
CV					0.0	0.0	0.0	0.0	37.76	3.79	9.24	6.17
Bartlett's X2					0.0	0.0	0.0	0.0	12.561	0.369	5.675	0.415
P(Bartlett's X2)					.	.	.	.	0.051	0.543	0.017*	0.995
Replicate F					0.000	0.000	0.000	0.000	1.972	1.532	0.996	0.124
Replicate Prob(F)					1.0000	1.0000	1.0000	1.0000	0.1682	0.2429	0.3888	0.8843
Treatment F					0.000	0.000	0.000	0.000	11.605	581.962	170.093	220.491
Treatment Prob(F)					1.0000	1.0000	1.0000	1.0000	0.0001	0.0001	0.0001	0.0001

Plant and Soil Science, U of KY
Weed Science Research

Pest Type			W Weed		W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code			IPOSS		STEME	LAMAM	LACSE	SETFA	AMBTR	ERICA	CHEAL
Pest Scientific Name			Ipomoea sp.		Stellaria media	Lamium amplexicaule	Lactuca serriola	Setaria faberi	Ambrosia trifida	Conyza canadensis	Chenopodium album
Pest Name			Morning glory		Common chickweed	Henbit	Prickly lettuce	Giant foxtail	Giant ragweed	Marestail	Common lambsquarters
Crop Code				ZEAMX							
BBCH Scale				BCOR							
Crop Scientific Name				Zea mays							
Crop Name				Corn							
Description											
Rating Date			6-2-2010	6-24-2010	6-24-2010	6-24-2010	6-24-2010	6-24-2010	6-24-2010	6-24-2010	6-24-2010
Rating Type			CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit			PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples			1	1	1	1	1	1	1	1	1
SE Description			BEFORE PO APPL	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Rating Timing			6 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.			43 33	65 22	65 22	65 22	65 22	65 22	65 22	65 22	65 22
Plant-Eval Interval			34 DP-1	56 DP-1	56 DP-1	56 DP-1	56 DP-1	56 DP-1	56 DP-1	56 DP-1	56 DP-1
Days After Emergence			28 DE-	50 DE-	50 DE-	50 DE-	50 DE-	50 DE-	50 DE-	50 DE-	50 DE-
ARM Action Codes			P	P	P	P	P	P	P	P	P
Number of Decimals			0	0	0	0	0	0	0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	27	28	29	30	31	32	33	34	35
1	CHECK UNTREATED				0	0	0	0	0	0	0	0	0
2	ROUNDUP POWERMAX	22	FL OZ/A	7 DAY	27	0	99	99	99	99	99	99	99
	AMS	3.7	% V/V	7 DAY									
	ROUNDUP POWERMAX	22	FL OZ/A	42 DAY									
	AMS	3.7	% V/V	42 DAY									
3	ROUNDUP POWERMAX	22	FL OZ/A	7 DAY	33	0	99	99	99	99	99	99	99
	FIERCE	3	OZ/A	7 DAY									
	AMS	3.7	% V/V	7 DAY									
	ROUNDUP POWERMAX	22	FL OZ/A	42 DAY									
	AATREX	1	QT/A	42 DAY									
	AMS	3.7	% V/V	42 DAY									
4	ROUNDUP POWERMAX	22	FL OZ/A	7 DAY	63	0	99	99	99	99	99	99	99
	VALOR SX	2	OZ/A	7 DAY									
	AMS	3.7	% V/V	7 DAY									
	ROUNDUP POWERMAX	22	FL OZ/A	42 DAY									
	AATREX	1	QT/A	42 DAY									
	AMS	3.7	% V/V	42 DAY									
5	ROUNDUP ORIGINAL MAX	22	FL OZ/A	PRE	99	0	99	99	99	99	99	96	99
	AMS	3.7	% V/V	PRE									
	BICEP II MAGNUM	2.1	QT/A	PRE									
	ROUNDUP POWERMAX	22	FL OZ/A	42 DAY									
	AMS	3.7	% V/V	42 DAY									
6	ROUNDUP POWERMAX	22	FL OZ/A	PRE	91	0	99	99	99	99	99	98	99
	AMS	3.7	% V/V	PRE									
	LEXAR	1.5	QT/A	PRE									
	ROUNDUP POWERMAX	22	FL OZ/A	42 DAY									
	AMS	3.7	% V/V	42 DAY									

Plant and Soil Science, U of KY
Weed Science Research

Pest Type			W Weed		W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code			IPOSS		STEME	LAMAM	LACSE	SETFA	AMBTR	ERICA	CHEAL
Pest Scientific Name			Ipomoea sp.		Stellaria media	Lamium amplexicaule	Lactuca serriola	Setaria faberi	Ambrosia trifida	Conyza canadensis	Chenopodium album
Pest Name			Morning glory		Common chickweed	Henbit	Prickly lettuce	Giant foxtail	Giant ragweed	Marestail	Common lambsquarters
Crop Code				ZEAMX							
BBCH Scale				BCOR							
Crop Scientific Name				Zea mays							
Crop Name				Corn							
Description											
Rating Date			6-2-2010	6-24-2010	6-24-2010	6-24-2010	6-24-2010	6-24-2010	6-24-2010	6-24-2010	6-24-2010
Rating Type			CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit			PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples			1	1	1	1	1	1	1	1	1
SE Description			BEFORE PO APPL	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST
Rating Timing			6 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.			43 33	65 22	65 22	65 22	65 22	65 22	65 22	65 22	65 22
Plant-Eval Interval			34 DP-1	56 DP-1	56 DP-1	56 DP-1	56 DP-1	56 DP-1	56 DP-1	56 DP-1	56 DP-1
Days After Emergence			28 DE-	50 DE-	50 DE-	50 DE-	50 DE-	50 DE-	50 DE-	50 DE-	50 DE-
ARM Action Codes			P	P	P	P	P	P	P	P	P
Number of Decimals			0	0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	27	28	29	30	31	32	33	34	35
7	ROUNDUP POWERMAX	22	FL OZ/A	PRE	96	0	99	99	99	99	99	99	99
	AMS	3.7	% V/V	PRE									
	CORVUS HERBICIDE	3	FL OZ/A	PRE									
	AATREX	1	QT/A	PRE									
	ROUNDUP POWERMAX	22	FL OZ/A	42 DAY									
	AMS	3.7	% V/V	42 DAY									
8	ROUNDUP POWERMAX	22	FL OZ/A	7 DAY	43	0	99	99	99	99	99	99	99
	FIERCE	3	OZ/A	7 DAY									
	AMS	3.7	% V/V	7 DAY									
	ROUNDUP POWERMAX	22	FL OZ/A	42 DAY									
	AMS	3.7	% V/V	42 DAY									
9	ROUNDUP POWERMAX	22	FL OZ/A	7 DAY	20	0	99	99	99	99	99	99	99
	INTEGRITY	13	FL OZ/A	7 DAY									
	AMS	3.7	% V/V	7 DAY									
	ROUNDUP POWERMAX	22	FL OZ/A	42 DAY									
	AMS	3.7	% V/V	42 DAY									
10	CHECK UNTREATED				0	0	0	0	0	0	0	0	0
LSD (P=.05)					32.5	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0
Standard Deviation					18.9	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0
CV					40.1	0.0	0.0	0.0	0.0	0.0	0.0	1.27	0.0
Bartlett's X2					9.536	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P(Bartlett's X2)					0.146	.	.	.	.	.	.	.	.
Replicate F					0.250	0.000	0.000	0.000	0.000	0.000	0.000	1.588	0.000
Replicate Prob(F)					0.7816	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.2316	1.0000
Treatment F					12.173	0.000	0.000	0.000	0.000	0.000	0.000	5138.765	0.000
Treatment Prob(F)					0.0001	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0001	1.0000

Plant and Soil Science, U of KY
Weed Science Research

Pest Type				W Weed	W Weed	
Pest Code				AMACH	IPOSS	
Pest Scientific Name				Amaranthus hybridus	Ipomoea sp.	
Pest Name				Smooth pigweed	Morning glory	
Crop Code						ZEAMX
BBCH Scale						BCOR
Crop Scientific Name						Zea mays
Crop Name						Corn
Description						15.5%
Rating Date				6-24-2010	6-24-2010	9-14-2010
Rating Type				CONTROL	CONTROL	YIELD
Rating Unit				PERCENT	PERCENT	BU
Number of Subsamples				1	1	1
SE Description				AFTER POST	AFTER POST	
Rating Timing				8 WEEK	8 WEEK	
Days After First/Last Applic.				65 22	65 22	147 104
Plant-Eval Interval				56 DP-1	56 DP-1	138 DP-1
Days After Emergence				50 DE-	50 DE-	132 DE
ARM Action Codes				P	P	TY1
Number of Decimals				0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	36	37	41
1	CHECK UNTREATED				0	0	77
2	ROUNDUP POWERMAX	22	FL OZ/A	7 DAY	99	90	167
	AMS	3.7	% V/V	7 DAY			
	ROUNDUP POWERMAX	22	FL OZ/A	42 DAY			
	AMS	3.7	% V/V	42 DAY			
3	ROUNDUP POWERMAX	22	FL OZ/A	7 DAY	99	93	179
	FIERCE	3	OZ/A	7 DAY			
	AMS	3.7	% V/V	7 DAY			
	ROUNDUP POWERMAX	22	FL OZ/A	42 DAY			
	AATREX	1	QT/A	42 DAY			
	AMS	3.7	% V/V	42 DAY			
4	ROUNDUP POWERMAX	22	FL OZ/A	7 DAY	99	82	174
	VALOR SX	2	OZ/A	7 DAY			
	AMS	3.7	% V/V	7 DAY			
	ROUNDUP POWERMAX	22	FL OZ/A	42 DAY			
	AATREX	1	QT/A	42 DAY			
	AMS	3.7	% V/V	42 DAY			
5	ROUNDUP ORIGINAL MAX	22	FL OZ/A	PRE	99	95	181
	AMS	3.7	% V/V	PRE			
	BICEP II MAGNUM	2.1	QT/A	PRE			
	ROUNDUP POWERMAX	22	FL OZ/A	42 DAY			
	AMS	3.7	% V/V	42 DAY			
6	ROUNDUP POWERMAX	22	FL OZ/A	PRE	99	96	162
	AMS	3.7	% V/V	PRE			
	LEXAR	1.5	QT/A	PRE			
	ROUNDUP POWERMAX	22	FL OZ/A	42 DAY			
	AMS	3.7	% V/V	42 DAY			

Plant and Soil Science, U of KY
Weed Science Research

Pest Type					W Weed	W Weed		
Pest Code					AMACH	IPOSS		
Pest Scientific Name					Amaranthus hybridus	Ipomoea sp.		
Pest Name					Smooth pigweed	Morning glory		
Crop Code								ZEAMX
BBCH Scale								BCOR
Crop Scientific Name								Zea mays
Crop Name								Corn
Description								15.5%
Rating Date					6-24-2010	6-24-2010	9-14-2010	
Rating Type					CONTROL	CONTROL	YIELD	
Rating Unit					PERCENT	PERCENT	BU	
Number of Subsamples					1	1	1	
SE Description					AFTER POST	AFTER POST		
Rating Timing					8 WEEK	8 WEEK		
Days After First/Last Applic.					65 22	65 22	147 104	
Plant-Eval Interval					56 DP-1	56 DP-1	138 DP-1	
Days After Emergence					50 DE-	50 DE-	132 DE	
ARM Action Codes					P	P	TY1	
Number of Decimals					0	0	0	
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	36	37	41	
7	ROUNDUP POWERMAX	22	FL OZ/A	PRE	99	96	178	
	AMS	3.7	% V/V	PRE				
	CORVUS HERBICIDE	3	FL OZ/A	PRE				
	AATREX	1	QT/A	PRE				
	ROUNDUP POWERMAX	22	FL OZ/A	42 DAY				
	AMS	3.7	% V/V	42 DAY				
8	ROUNDUP POWERMAX	22	FL OZ/A	7 DAY	99	62	144	
	FIERCE	3	OZ/A	7 DAY				
	AMS	3.7	% V/V	7 DAY				
	ROUNDUP POWERMAX	22	FL OZ/A	42 DAY				
	AMS	3.7	% V/V	42 DAY				
9	ROUNDUP POWERMAX	22	FL OZ/A	7 DAY	99	65	162	
	INTEGRITY	13	FL OZ/A	7 DAY				
	AMS	3.7	% V/V	7 DAY				
	ROUNDUP POWERMAX	22	FL OZ/A	42 DAY				
	AMS	3.7	% V/V	42 DAY				
10	CHECK UNTREATED				0	0	102	
LSD (P=.05)					0.0	33.9	20.2	
Standard Deviation					0.0	19.7	11.8	
CV					0.0	29.06	7.71	
Bartlett's X2					0.0	28.074	13.162	
P(Bartlett's X2)					.	0.001*	0.155	
Replicate F					0.000	3.026	3.183	
Replicate Prob(F)					1.0000	0.0736	0.0655	
Treatment F					0.000	11.074	27.144	
Treatment Prob(F)					1.0000	0.0001	0.0001	

Plant and Soil Science, U of KY
Weed Science Research

NO TILL CORN EARLY PREPLANT III

Trial ID: C10003 Protocol ID: VALENT-CORN-EPP
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: JOHN CRANMER

Pest Type
W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop
Pest Code
STEME, Stellaria media, = US
LAMAM, Lamium amplexicaule, = US
LACSE, Lactuca serriola, = US
SETFA, Setaria faberi, = US
AMBTR, Ambrosia trifida, = US
ERICA, Conyza canadensis, = US
CHEAL, Chenopodium album, = US
AMACH, Amaranthus hybridus, = US
IPOSS, Ipomoea sp., = US
Crop Code
ZEAMX, BCOR, Zea mays, = US
Rating Type
YIELD = yield
Rating Unit
PERCENT = percent
BU = bushel
Plant-Eval Interval
15 DP-1 = 1 4-29-2010
29 DP-1 = 1 4-29-2010
34 DP-1 = 1 4-29-2010
56 DP-1 = 1 4-29-2010
138 DP-1 = 1 4-29-2010
ARM Action Codes
P = Rating scale of 0 to 100 (e.g. % control or injury)
TY1 = 4.093985*39*(100-40)/84.5

Plant and Soil Science, U of KY
Weed Science Research

NO TILL CORN EARLY PREPLANT III

Trial ID: C10003 Protocol ID: VALENT-CORN-EPP
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: JOHN CRANMER

General Trial Information

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Investigator: Charles H. Slack

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 4-20-2010

Trial Location

City: LEXINGTON USA 49.376656 - 24.53833
State/Prov.: KENTUCKY -124.715843 - -66.968887
Postal Code: 40511
Country: USA

Personnel

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Affiliation: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING
Location: LEXINGTON, KY
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu
Mobile No.: 859-227-3355
Investigator: Charles H. Slack
Affiliation: University of Kentucky
Location: Lexington, KY
Postal Code: 40546 **E-mail:** cslack@uky.edu

Other Personnel

Role	Name	Other
Research Analyst	Sara Carter	sara.carter@uky.edu

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC 62 54
BBCH Scale: BCOR **Planting Date:** 4-29-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDTRA medium/trashy **Soil Temperature, Unit:** 53 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-5-2010
Harvest Date: 9-14-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 38 FT
% Standard Moisture: 15.5

Plant and Soil Science, U of KY
Weed Science Research

Pest Description

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

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

Pest 3 Type: W **Code:** LACSE Lactuca serriola
Common Name: Prickly lettuce

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

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

Pest 6 Type: W **Code:** ERICA Conyza canadensis
Common Name: Marestail

Pest 7 Type: W **Code:** CHEAL Chenopodium album
Common Name: Common lambsquarters

Pest 8 Type: W **Code:** AMACH Amaranthus hybridus
Common Name: Smooth pigweed

Pest 9 Type: W **Code:** IPOSS Ipomoea sp.
Common Name: Morning glory

Site and Design

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

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.6 **Texture:** SIL silt loam
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY SILT LOAM
% Clay: 32 **CEC:** 17 **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:** 2.25 MI

Plant and Soil Science, U of KY
Weed Science Research

Application Description

	A	B	C
Application Date:	4-20-2010	4-30-2010	6-2-2010
Time of Day:	10 AM	10 AM	5 PM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	7 DAY	PRE	42D
Application Placement:	BROFOL	BROSOI	BANFOL
Applied By:	C H SLACK	C H SLACK	C H SLACK
Air Temperature, Unit:	60 F	74 F	88 F
% Relative Humidity:	38	41	50
Wind Velocity, Unit:	8 MPH	10 MPH	6 MPH
Wind Direction:	ENE	SW	SW
Soil Temperature, Unit:	54 F	57 F	72 F
Soil Moisture:	NORMAL	GOOD	GOOD
% Cloud Cover:	50	10	10
Next Rain Occurred On:	4-23-2010	5-1-2010	6-4-2010

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:			BBCH
Stage Majority, Percent:			V6
Height, Unit:			34 IN

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	STEME W	STEME W	STEME W
Height, Unit:	10 IN	10 IN	
Pest 2 Code, Type, Scale:	LAMAM W	LAMAM W	LAMAM W
Height, Unit:	10 IN	10 IN	
Pest 3 Code, Type, Scale:	LACSE W	LACSE W	LACSE W
Height, Unit:	12 IN	14 IN	
Pest 4 Code, Type, Scale:	SETFA W	SETFA W	SETFA W
Height, Unit:	1 IN	2 IN	10 IN
Pest 5 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W
Height, Unit:	4 IN	5 IN	20 IN
Pest 6 Code, Type, Scale:	ERICA W	ERICA W	ERICA W
Height, Unit:	12 IN	14 IN	20 IN
Pest 7 Code, Type, Scale:	CHEAL W	CHEAL W	CHEAL W
Height, Unit:	2 IN	3 IN	8 IN
Pest 8 Code, Type, Scale:	AMACH W	AMACH W	AMACH W
Height, Unit:	1 IN	2 IN	8 IN
Pest 9 Code, Type, Scale:	IPOSS W	IPOSS W	IPOSS W
Height, Unit:	1 IN	2 IN	12 IN

Application Equipment

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

Plant and Soil Science, U of KY
Weed Science Research

NO TILL CORN

Trial ID: C10004 Protocol ID: SYN CORN1
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: SCOTT CULLY

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9
	Pest Type				W Weed	W Weed	W Weed	W Weed	W Weed	W Weed		W Weed	W Weed
	Pest Code				STEME	LAMAM	LACSE	AMBTR	ERICA	SETFA		SETFA	AMBTR
	Pest Scientific Name				Stellaria media	Lamium amplexicaule	Lactuca serriola	Ambrosia trifida	Conyza canadensis	Setaria faberi		Setaria faberi	Ambrosia trifida
	Pest Name				Common chickweed	Henbit	Prickly lettuce	Giant ragweed	Marestail	Giant foxtail		Giant foxtail	Giant ragweed
	Crop Code										ZEAMX		
	BBCH Scale										BCOR		
	Crop Scientific Name										Zea mays		
	Crop Name										Corn		
	Rating Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
	Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	Number of Subsamples				1	1	1	1	1	1	1	1	1
	SE Description												
	Rating Timing										2 WEEK	2 WEEK	2 WEEK
	ARM Action Codes				P	P	P	P	P	P	P	P	P
	Number of Decimals				0	0	0	0	0	0	0	0	0
1	CHECK UNTREATED				99	99	99	99	99	99	0	0	0
2	LUMAX	2.5	QT/A	PRE	99	99	99	99	99	99	0	99	99
	AATREX	1	QT/A	PRE									
3	LEXAR	3	QT/A	PRE	99	99	99	99	99	99	0	98	98
	PRINCEP	1	QT/A	PRE									
4	LEXAR	1.5	QT/A	PRE	99	99	99	99	99	99	0	99	99
	LEXAR	1.35	QT/A	EP-V3									
5	LEXAR	2.25	QT/A	PRE	99	99	99	99	99	99	0	99	99
	TOUCHDOWN TOTAL	24	FL OZ/A	LP-V6									
	AMS	8.5	LB/100 GAL	LP-V6									
6	BICEP II MAGNUM	1.3	QT/A	PRE	99	99	99	99	99	99	0	99	99
	HALEX GT	3.6	PT/A	LP-V6									
	N-PAK AMS LIQUID	2.5	% V/V	LP-V6									
	NIS	0.25	% V/V	LP-V6									
7	LEXAR	2.5	QT/A	PRE	99	99	99	99	99	99	0	99	99
	HALEX GT	3.6	PT/A	LP-V6									
	N-PAK AMS LIQUID	2.5	% V/V	LP-V6									
	NIS	0.25	% V/V	LP-V6									
8	HALEX GT	3.6	PT/A	EP-V3	99	99	99	99	99	99	0	99	99
	AATREX	1	PT/A	EP-V3									
	N-PAK AMS LIQUID	2.5	% V/V	EP-V3									
	NIS	0.25	% V/V	EP-V3									
9	TOUCHDOWN TOTAL	30	FL OZ/A	EP-V3	99	99	99	99	99	99	0	99	99
	CALLISTO	3	FL OZ/A	EP-V3									
	N-PAK AMS LIQUID	2.5	% V/V	EP-V3									
10	TOUCHDOWN TOTAL	30	FL OZ/A	EP-V3	99	99	99	99	99	99	0	99	99
	CALLISTO XTRA	1.5	PT/A	EP-V3									
	N-PAK AMS LIQUID	2.5	% V/V	EP-V3									
11	FIERCE	3	OZ/A	PRE	99	99	99	99	99	99	0	99	89
	AATREX	1	QT/A	PRE									
12	INTEGRITY	5	FL OZ/A	PRE	99	99	99	99	99	99	0	99	99
	GUARDSMAN MAX	2.5	PT/A	PRE									

Plant and Soil Science, U of KY
Weed Science Research

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9
	Pest Type				W Weed	W Weed	W Weed	W Weed	W Weed	W Weed		W Weed	W Weed
	Pest Code				STEME	LAMAM	LACSE	AMBTR	ERICA	SETFA		SETFA	AMBTR
	Pest Scientific Name				Stellaria media	Lamium amplexicaule	Lactuca serriola	Ambrosia trifida	Conyza canadensis	Setaria faberi		Setaria faberi	Ambrosia trifida
	Pest Name				Common chickweed	Henbit	Prickly lettuce	Giant ragweed	Marestail	Giant foxtail		Giant foxtail	Giant ragweed
	Crop Code										ZEAMX		
	BBCH Scale										BCOR		
	Crop Scientific Name										Zea mays		
	Crop Name										Corn		
	Rating Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
	Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	Number of Subsamples				1	1	1	1	1	1	1	1	1
	SE Description												
	Rating Timing										2 WEEK	2 WEEK	2 WEEK
	ARM Action Codes				P	P	P	P	P	P	P	P	P
	Number of Decimals				0	0	0	0	0	0	0	0	0
13	PREQUEL	1.6	OZ/A	PRE	99	99	99	99	99	99	0	99	99
	CINCH ATZ	1	QT/A	PRE									
14	CORVUS HERBICIDE	5.6	FL OZ/A	PRE	99	99	99	99	99	99	0	99	99
	AATREX	1	QT/A	PRE									
	TOUCHDOWN TOTAL	24	FL OZ/A	LP-V6									
	AMS	8.5	LB/100 GAL	LP-V6									
	LSD (P=.05)				0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	4.5
	Standard Deviation				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	2.7
	CV				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.67	2.92
	Bartlett's X2				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.074
	P(Bartlett's X2)				.	.	.	.	.	.	.	.	0.08
	Replicate F				0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.000	0.567
	Replicate Prob(F)				1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.3816	0.5743
	Treatment F				0.000	0.000	0.000	0.000	0.000	0.000	0.000	5502.640	293.575
	Treatment Prob(F)				1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0001	0.0001

Plant and Soil Science, U of KY
Weed Science Research

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	10	11	12	13	14	15	16	20
	Pest Type				W Weed	W Weed		W Weed	W Weed	W Weed	W Weed	
	Pest Code				CHEAL	ERICA		SETFA	AMBTR	CHEAL	ERICA	
	Pest Scientific Name				Chenopodium album	Conyza canadensis		Setaria faberi	Ambrosia trifida	Chenopodium album	Conyza canadensis	
	Pest Name				Common lambsquarters	Marestail		Giant foxtail	Giant ragweed	Common lambsquarters	Marestail	
	Crop Code						ZEAMX					ZEAMX
	BBCH Scale						BCOR					BCOR
	Crop Scientific Name						Zea mays					Zea mays
	Crop Name						Corn					Corn
	Rating Type				CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	YIELD
	Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	BU
	Number of Subsamples				1	1	1	1	1	1	1	1
	SE Description											15.5%
	Rating Timing				2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	
	ARM Action Codes				P	P	P	P	P	P	P	TY1
	Number of Decimals				0	0		0	0	0	0	0
1	CHECK UNTREATED				0	0	0.0	0	0	0	0	38
2	LUMAX	2.5	QT/A	PRE	99	99	0.0	95	95	99	99	171
	AATREX	1	QT/A	PRE								
3	LEXAR	3	QT/A	PRE	99	99	0.0	94	95	99	99	162
	PRINCEP	1	QT/A	PRE								
4	LEXAR	1.5	QT/A	PRE	99	99	0.0	99	99	99	99	156
	LEXAR	1.35	QT/A	EP-V3								
5	LEXAR	2.25	QT/A	PRE	99	99	0.0	99	99	99	99	164
	TOUCHDOWN TOTAL	24	FL OZ/A	LP-V6								
	AMS	8.5	LB/100 GAL	LP-V6								
6	BICEP II MAGNUM	1.3	QT/A	PRE	99	99	0.0	99	99	99	99	158
	HALEX GT	3.6	PT/A	LP-V6								
	N-PAK AMS LIQUID	2.5	% V/V	LP-V6								
	NIS	0.25	% V/V	LP-V6								
7	LEXAR	2.5	QT/A	PRE	99	99	0.0	99	99	99	99	172
	HALEX GT	3.6	PT/A	LP-V6								
	N-PAK AMS LIQUID	2.5	% V/V	LP-V6								
	NIS	0.25	% V/V	LP-V6								
8	HALEX GT	3.6	PT/A	EP-V3	99	99	0.0	99	99	99	99	187
	AATREX	1	PT/A	EP-V3								
	N-PAK AMS LIQUID	2.5	% V/V	EP-V3								
	NIS	0.25	% V/V	EP-V3								
9	TOUCHDOWN TOTAL	30	FL OZ/A	EP-V3	99	99	0.0	99	98	99	99	155
	CALLISTO	3	FL OZ/A	EP-V3								
	N-PAK AMS LIQUID	2.5	% V/V	EP-V3								
10	TOUCHDOWN TOTAL	30	FL OZ/A	EP-V3	99	99	0.0	99	99	99	99	180
	CALLISTO XTRA	1.5	PT/A	EP-V3								
	N-PAK AMS LIQUID	2.5	% V/V	EP-V3								
11	FIERCE	3	OZ/A	PRE	99	99	0.0	96	86	99	99	148
	AATREX	1	QT/A	PRE								
12	INTEGRITY	5	FL OZ/A	PRE	99	99	0.0	92	92	99	99	158
	GUARDSMAN MAX	2.5	PT/A	PRE								

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Pest Type				W Weed	W Weed		W Weed	W Weed	W Weed	W Weed	
Pest Code				CHEAL	ERICA		SETFA	AMBTR	CHEAL	ERICA	
Pest Scientific Name				Chenopodium album	Conyza canadensis		Setaria faberi	Ambrosia trifida	Chenopodium album	Conyza canadensis	
Pest Name				Common lambsquarters	Marestail		Giant foxtail	Giant ragweed	Common lambsquarters	Marestail	
Crop Code						ZEAMX					ZEAMX
BBCH Scale						BCOR					BCOR
Crop Scientific Name						Zea mays					Zea mays
Crop Name						Corn					Corn
Rating Type				CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	BU
Number of Subsamples				1	1	1	1	1	1	1	1
SE Description											15.5%
Rating Timing				2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	
ARM Action Codes				P	P	P	P	P	P	P	TY1
Number of Decimals				0	0		0	0	0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	10	11	12	13	14	15	16	20
13	PREQUEL	1.6	OZ/A	PRE	99	99	0.0	96	99	99	99	174
	CINCH ATZ	1	QT/A	PRE								
14	CORVUS HERBICIDE	5.6	FL OZ/A	PRE	99	99	0.0	99	99	99	99	179
	AATREX	1	QT/A	PRE								
	TOUCHDOWN TOTAL	24	FL OZ/A	LP-V6								
	AMS	8.5	LB/100 GAL	LP-V6								
LSD (P=.05)					0.0	0.0	0.00	5.2	6.5	0.0	0.0	37.1
Standard Deviation					0.0	0.0	0.00	3.1	3.9	0.0	0.0	22.1
CV					0.0	0.0	0.0	3.44	4.31	0.0	0.0	14.05
Bartlett's X2					0.0	0.0	0.0	0.142	4.609	0.0	0.0	21.379
P(Bartlett's X2)					.	.	.	0.998	0.33	.	.	0.066
Replicate F					0.000	0.000	0.000	1.424	0.392	0.000	0.000	2.227
Replicate Prob(F)					1.0000	1.0000	1.0000	0.2590	0.6793	1.0000	1.0000	0.1280
Treatment F					0.000	0.000	0.000	211.186	136.594	0.000	0.000	7.973
Treatment Prob(F)					1.0000	1.0000	1.0000	0.0001	0.0001	1.0000	1.0000	0.0001

Plant and Soil Science, U of KY
Weed Science Research

NO TILL CORN

Trial ID: C10004 Protocol ID: SYN CORN1
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: SCOTT CULLY

Pest Type
W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop
Pest Code
STEME, Stellaria media, = US
LAMAM, Lamium amplexicaule, = US
LACSE, Lactuca serriola, = US
AMBTR, Ambrosia trifida, = US
ERICA, Conyza canadensis, = US
SETFA, Setaria faberi, = US
CHEAL, Chenopodium album, = US
Crop Code
ZEAMX, BCOR, Zea mays, = US
Rating Type
YIELD = yield
Rating Unit
PERCENT = percent
BU = bushel
ARM Action Codes
P = Rating scale of 0 to 100 (e.g. % control or injury)
TY1 = 6.186036*18

Plant and Soil Science, U of KY
Weed Science Research

NO TILL CORN

Trial ID: C10004 Protocol ID: SYN CORN1
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: SCOTT CULLY

General Trial Information

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Investigator: Charles H. Slack

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5-4-2010

Trial Location

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

Personnel

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Affiliation: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING
Location: LEXINGTON, KY
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu
Mobile No.: 859-227-3355
Investigator: Charles H. Slack
Affiliation: University of Kentucky
Location: Lexington, KY
Postal Code: 40546 **E-mail:** cslack@uky.edu

Other Personnel

Role	Name	Other
Research Analyst	Sara Carter	sara.carter@uky.edu

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC 62 54
BBCH Scale: BCOR **Planting Date:** 5-4-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDTRA medium/trashy **Soil Temperature, Unit:** 65 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-11-2010
Harvest Date: 9-13-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 25 FT
% Standard Moisture: 15.5

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Pest Description

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

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

Pest 3 Type: W **Code:** LACSE Lactuca serriola
Common Name: Prickly lettuce

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

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

Pest 6 Type: W **Code:** ERICA Conyza canadensis
Common Name: Marestail

Pest 7 Type: W **Code:** CHEAL Chenopodium album
Common Name: Common lambsquarters

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD field
Plot Length, Unit: 44 FT
Plot Area, Unit: 440 FT2 **Tillage Type:** NOTILL no-till
Replications: 3 **Study Design:** 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:** 17 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

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

Application Description

	A	B	C
Application Date:	5-4-2010	5-28-2010	6-3-2010
Time of Day:	5 PM	10 AM	10 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	EP-V3	LP-V6
Application Placement:	BROFOL	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	C H SLACK
Air Temperature, Unit:	75 F	74 F	74 F
% Relative Humidity:	27	73	68
Wind Velocity, Unit:	2 MPH	6 MPH	6 MPH
Wind Direction:	SW	NW	SW
Soil Temperature, Unit:	65 F	70 F	72 F
Soil Moisture:	EXCELL	GOOD	GOOD
% Cloud Cover:	10	30	10
Next Rain Occurred On:	5-8-2010	5-30-2010	6-4-2010

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Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH	BBCH
Stage Majority, Percent:		V3	V6
Height, Unit:		10 IN	20 IN

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	STEME W	STEME W	STEME W
Height, Unit:	3 IN	5 IN	
Pest 2 Code, Type, Scale:	LAMAM W	LAMAM W	LAMAM W
Height, Unit:	4 IN	6 IN	
Pest 3 Code, Type, Scale:	LACSE W	LACSE W	LACSE W
Height, Unit:	8 IN	12 IN	
Pest 4 Code, Type, Scale:	SETFA W	SETFA W	SETFA W
Height, Unit:		2 IN	3 IN
Pest 5 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W
Height, Unit:		3 IN	4 IN
Pest 6 Code, Type, Scale:	ERICA W	ERICA W	ERICA W
Height, Unit:	4 IN	6 IN	8 IN
Pest 7 Code, Type, Scale:	CHEAL W	CHEAL W	CHEAL W
Height, Unit:		1 IN	2 IN

Application Equipment

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

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Weed Science Research

NO TILL CORN II

Trial ID: C10005 Protocol ID: SYNCORN2
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: SCOTT CULLY

Pest Type			W Weed	W Weed	W Weed	W Weed	W Weed	W Weed		W Weed	W Weed
Pest Code			STEME	LAMAM	LACSE	AMBTR	ERICA	SETFA		SETFA	AMBTR
Pest Scientific Name			Stellaria media	Lamium amplexicaule	Lactuca serriola	Ambrosia trifida	Conyza canadensis	Setaria faberi		Setaria faberi	Ambrosia trifida
Pest Name			Common chickweed	Henbit	Prickly lettuce	Giant ragweed	Marestail	Giant foxtail		Giant foxtail	Giant ragweed
Crop Code									ZEAMX		
BBCH Scale									BCOR		
Crop Scientific Name									Zea mays		
Crop Name									Corn		
Rating Date											
Rating Type			CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit			PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples			1	1	1	1	1	1	1	1	1
Rating Timing									2 WEEK	2 WEEK	2 WEEK
Days After First/Last Applic.											
Plant-Eval Interval											
Days After Emergence											
ARM Action Codes			P	P	P	P	P	P	P	P	P
Number of Decimals			0	0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9
15	BALANCE FLEXX HERBICIDE	6	FL OZ/A	PRE	99	99	99	99	99	99	0	99	99
	AATREX	1	QT/A	PRE									
	TOUCHDOWN TOTAL	24	OZ/A	LP-V6									
	AMS	8.5	LB/100 GAL	LP-V6									
16	INTEGRITY	13	FL OZ/A	PRE	99	99	99	99	99	99	0	99	99
	TOUCHDOWN TOTAL	24	FL OZ/A	LP-V6									
	AMS	8.5	LB/100 GAL	LP-V6									
17	SURESTART	1.75	PT/A	PRE	99	99	99	99	99	99	0	99	99
	DURANGO DMA	24	FL OZ/A	LP-V6									
	AMS	8.5	LB/100 GAL	LP-V6									
18	GUARDSMAN MAX	2.5	PT/A	PRE	99	99	99	99	99	99	0	99	99
	ROUNDUP POWERMAX	22	FL OZ/A	LP-V6									
	STATUS	2.5	OZ/A	LP-V6									
	N-PAK AMS LIQUID	2.5	% V/V	LP-V6									
19	BALANCE FLEXX HERBICIDE	3	FL OZ/A	PRE	99	99	99	99	99	99	0	99	99
	CAPRENO HERBICIDE	3	FL OZ/A	LP-V6									
	ROUNDUP POWERMAX	22	FL OZ/A	LP-V6									
	N-PAK AMS LIQUID	2.5	% V/V	LP-V6									
20	CORVUS HERBICIDE	5.6	FL OZ/A	PRE	99	99	99	99	99	99	0	99	99
	CAPRENO HERBICIDE	3	FL OZ/A	LP-V6									
	ROUNDUP POWERMAX	22	FL OZ/A	LP-V6									
	N-PAK AMS LIQUID	2.5	% V/V	LP-V6									
21	ROUNDUP POWERMAX	22	FL OZ/A	EP-V3	99	99	99	99	99	99	0	99	99
	LAUDIS	3	FL OZ/A	EP-V3									
	AATREX	1	PT/A	EP-V3									
	N-PAK AMS LIQUID	2.5	% V/V	EP-V3									
22	DURANGO DMA	24	FL OZ/A	EP-V3	99	99	99	99	99	99	0	99	99
	SURESTART	1.75	PT/A	EP-V3									
	N-PAK AMS LIQUID	2.5	% V/V	EP-V3									

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Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9
	Pest Type				W Weed	W Weed	W Weed	W Weed	W Weed	W Weed		W Weed	W Weed
	Pest Code				STEME	LAMAM	LACSE	AMBTR	ERICA	SETFA		SETFA	AMBTR
	Pest Scientific Name				Stellaria media	Lamium amplexicaule	Lactuca serriola	Ambrosia trifida	Conyza canadensis	Setaria faberi		Setaria faberi	Ambrosia trifida
	Pest Name				Common chickweed	Henbit	Prickly lettuce	Giant ragweed	Marestail	Giant foxtail		Giant foxtail	Giant ragweed
	Crop Code										ZEAMX		
	BBCH Scale										BCOR		
	Crop Scientific Name										Zea mays		
	Crop Name										Corn		
	Rating Date												
	Rating Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
	Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	Number of Subsamples				1	1	1	1	1	1	1	1	1
	Rating Timing										2 WEEK	2 WEEK	2 WEEK
	Days After First/Last Applic.												
	Plant-Eval Interval												
	Days After Emergence												
	ARM Action Codes				P	P	P	P	P	P	P	P	P
	Number of Decimals				0	0	0	0	0	0	0	0	0
23	ROUNDUP POWERMAX	22	FL OZ/A	EP-V3	99	99	99	99	99	99	0	99	99
	CAPRENO HERBICIDE	3	FL OZ/A	EP-V3									
	AATREX	1	PT/A	EP-V3									
	N-PAK AMS LIQUID	2.5	% V/V	EP-V3									
24	ROUNDUP POWERMAX	22	FL OZ/A	EP-V3	99	99	99	99	99	99	0	99	99
	N-PAK AMS LIQUID	2.5	% V/V	EP-V3									
25	ROUNDUP POWERMAX	22	FL OZ/A	EP-V3	99	99	99	99	99	99	0	99	99
	N-PAK AMS LIQUID	2.5	% V/V	EP-V3									
	ROUNDUP POWERMAX	22	FL OZ/A	LP-V6									
	N-PAK AMS LIQUID	2.5	% V/V	LP-V6									
26	INTEGRITY	13	FL OZ/A	PRE	99	99	99	99	99	99	0	99	99
27	SHARPEN	1	FL OZ/A	PRE	99	99	99	99	99	99	0	99	99
	GUARDSMAN MAX	2.5	PT/A	PRE									
28	CHECK				99	99	99	99	99	99	0	0	0
	LSD (P=.05)				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Standard Deviation				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CV				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Bartlett's X2				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	P(Bartlett's X2)				.	.	.	.	.	.	.	.	.
	Replicate F				0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Replicate Prob(F)				1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
	Treatment F				0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Treatment Prob(F)				1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

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Pest Type			W Weed	W Weed		W Weed	W Weed	W Weed	W Weed	
Pest Code			CHEAL	ERICA		SETFA	AMBTR	CHEAL	ERICA	
Pest Scientific Name			Chenopodium album	Conyza canadensis		Setaria faberi	Ambrosia trifida	Chenopodium album	Conyza canadensis	
Pest Name			Common lambsquarters	Marestail	Corn	Giant foxtail	Giant ragweed	Common lambsquarters	Marestail	
Crop Code					ZEAMX					ZEAMX
BBCH Scale					BCOR					BCOR
Crop Scientific Name					Zea mays					Zea mays
Crop Name					Corn					Corn
Rating Date										9-13-2010
Rating Type			CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit			PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	BU
Number of Subsamples			1	1	1	1	1	1	1	1
Rating Timing			2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK		15.5%
Days After First/Last Applic.										132 102
Plant-Eval Interval										132 DP-1
Days After Emergence										125 DE
ARM Action Codes			P	P	P	P	P	P	P	TY1
Number of Decimals			0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	10	11	12	13	14	15	16	20
15	BALANCE FLEXX HERBICIDE	6	FL OZ/A	PRE	99	99	0	98	96	99	99	182
	AATREX	1	QT/A	PRE								
	TOUCHDOWN TOTAL	24	OZ/A	LP-V6								
	AMS	8.5	LB/100 GAL	LP-V6								
16	INTEGRITY	13	FL OZ/A	PRE	99	99	0	99	93	99	99	169
	TOUCHDOWN TOTAL	24	FL OZ/A	LP-V6								
	AMS	8.5	LB/100 GAL	LP-V6								
17	SURESTART	1.75	PT/A	PRE	99	99	0	96	95	99	99	173
	DURANGO DMA	24	FL OZ/A	LP-V6								
	AMS	8.5	LB/100 GAL	LP-V6								
18	GUARDSMAN MAX	2.5	PT/A	PRE	99	99	0	99	98	99	99	160
	ROUNDUP POWERMAX	22	FL OZ/A	LP-V6								
	STATUS	2.5	OZ/A	LP-V6								
	N-PAK AMS LIQUID	2.5	% V/V	LP-V6								
19	BALANCE FLEXX HERBICIDE	3	FL OZ/A	PRE	99	99	0	99	99	99	99	171
	CAPRENO HERBICIDE	3	FL OZ/A	LP-V6								
	ROUNDUP POWERMAX	22	FL OZ/A	LP-V6								
	N-PAK AMS LIQUID	2.5	% V/V	LP-V6								
20	CORVUS HERBICIDE	5.6	FL OZ/A	PRE	99	99	0	99	99	99	99	185
	CAPRENO HERBICIDE	3	FL OZ/A	LP-V6								
	ROUNDUP POWERMAX	22	FL OZ/A	LP-V6								
	N-PAK AMS LIQUID	2.5	% V/V	LP-V6								
21	ROUNDUP POWERMAX	22	FL OZ/A	EP-V3	99	99	0	98	98	99	99	184
	LAUDIS	3	FL OZ/A	EP-V3								
	AATREX	1	PT/A	EP-V3								
	N-PAK AMS LIQUID	2.5	% V/V	EP-V3								
22	DURANGO DMA	24	FL OZ/A	EP-V3	99	99	0	98	99	99	99	161
	SURESTART	1.75	PT/A	EP-V3								
	N-PAK AMS LIQUID	2.5	% V/V	EP-V3								

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Pest Type			W Weed	W Weed		W Weed	W Weed	W Weed	W Weed	
Pest Code			CHEAL	ERICA		SETFA	AMBTR	CHEAL	ERICA	
Pest Scientific Name			Chenopodium album	Conyza canadensis		Setaria faberi	Ambrosia trifida	Chenopodium album	Conyza canadensis	
Pest Name			Common lambsquarters	Marestail	Corn	Giant foxtail	Giant ragweed	Common lambsquarters	Marestail	
Crop Code					ZEAMX					ZEAMX
BBCH Scale					BCOR					BCOR
Crop Scientific Name					Zea mays					Zea mays
Crop Name					Corn					Corn
Rating Date										9-13-2010
Rating Type			CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit			PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	BU
Number of Subsamples			1	1	1	1	1	1	1	1
Rating Timing			2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK		15.5%
Days After First/Last Applic.										132 102
Plant-Eval Interval										132 DP-1
Days After Emergence										125 DE
ARM Action Codes			P	P	P	P	P	P	P	TY1
Number of Decimals			0	0	0	0	0	0	0	0
Trt No.	Treatment Name	Rate / Rate Unit	Growth Stage	10	11	12	13	14	15	16	20
23	ROUNDUP POWERMAX	22 FL OZ/A	EP-V3	99	99	0	99	96	99	99	201
	CAPRENO HERBICIDE	3 FL OZ/A	EP-V3								
	AATREX	1 PT/A	EP-V3								
	N-PAK AMS LIQUID	2.5 % V/V	EP-V3								
24	ROUNDUP POWERMAX	22 FL OZ/A	EP-V3	99	99	0	99	89	99	99	186
	N-PAK AMS LIQUID	2.5 % V/V	EP-V3								
25	ROUNDUP POWERMAX	22 FL OZ/A	EP-V3	99	99	0	99	95	99	99	162
	N-PAK AMS LIQUID	2.5 % V/V	EP-V3								
	ROUNDUP POWERMAX	22 FL OZ/A	LP-V6								
	N-PAK AMS LIQUID	2.5 % V/V	LP-V6								
26	INTEGRITY	13 FL OZ/A	PRE	99	99	0	94	88	99	99	159
27	SHARPEN	1 FL OZ/A	PRE	99	99	0	91	91	99	99	174
	GUARDSMAN MAX	2.5 PT/A	PRE								
28	CHECK			0	0	0	0	0	0	0	109
LSD (P=.05)				0.0	0.0	0.0	5.8	7.4	0.0	0.0	42.9
Standard Deviation				0.0	0.0	0.0	3.4	4.4	0.0	0.0	25.6
CV				0.0	0.0	0.0	3.8	5.03	0.0	0.0	15.07
Bartlett's X2				0.0	0.0	0.0	7.209	7.448	0.0	0.0	5.664
P(Bartlett's X2)				.	.	.	0.206	0.489	.	.	0.958
Replicate F				0.000	0.000	0.000	1.714	1.080	0.000	0.000	0.104
Replicate Prob(F)				1.0000	1.0000	1.0000	0.1998	0.3545	1.0000	1.0000	0.9020
Treatment F				0.000	0.000	0.000	173.219	100.318	0.000	0.000	2.075
Treatment Prob(F)				1.0000	1.0000	1.0000	0.0001	0.0001	1.0000	1.0000	0.0549

Plant and Soil Science, U of KY
Weed Science Research

NO TILL CORN II

Trial ID: C10005 Protocol ID: SYNCORN2
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: SCOTT CULLY

Pest Type
W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop
Pest Code
STEME, Stellaria media, = US
LAMAM, Lamium amplexicaule, = US
LACSE, Lactuca serriola, = US
AMBTR, Ambrosia trifida, = US
ERICA, Conyza canadensis, = US
SETFA, Setaria faberi, = US
CHEAL, Chenopodium album, = US
Crop Code
ZEAMX, BCOR, Zea mays, = US
Rating Type
YIELD = yield
Rating Unit
PERCENT = percent
BU = bushel
Plant-Eval Interval
132 DP-1 = 1 5-4-2010
ARM Action Codes
P = Rating scale of 0 to 100 (e.g. % control or injury)
TY1 = 6.186036*18

Plant and Soil Science, U of KY
Weed Science Research

NO TILL CORN II

Trial ID: C10005 Protocol ID: SYNCORN2
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: SCOTT CULLY

General Trial Information

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Investigator: Charles H. Slack

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5-4-2010

Trial Location

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

Personnel

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Affiliation: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING
Location: LEXINGTON, KY
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu
Mobile No.: 859-227-3355
Investigator: Charles H. Slack
Affiliation: University of Kentucky
Location: Lexington, KY
Postal Code: 40546 **E-mail:** cslack@uky.edu

Other Personnel

Role	Name	Other
Research Analyst	Sara Carter	sara.carter@uky.edu

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC 62 54
BBCH Scale: BCOR **Planting Date:** 5-4-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 65 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-11-2010
Harvest Date: 9-13-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 25 FT
% Standard Moisture: 15.5

Plant and Soil Science, U of KY
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Pest Description

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

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

Pest 3 Type: W **Code:** LACSE Lactuca serriola
Common Name: Prickly lettuce

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

Pest 5 Type: W **Code:** ERICA Conyza canadensis
Common Name: Marestail

Pest 6 Type: W **Code:** SETFA Setaria faberi
Common Name: Giant foxtail

Pest 7 Type: W **Code:** CHEAL Chenopodium album
Common Name: Common lambsquarters

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD field
Plot Length, Unit: 44 FT
Plot Area, Unit: 440 FT2 **Tillage Type:** NOTILL no-till
Replications: 3 **Study Design:** 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:** 17 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

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

Application Description

	A	B	C
Application Date:	5-4-2010	5-28-2010	6-3-2010
Time of Day:	5 PM	10 AM	10 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	EP-V3	LP-V6
Application Placement:	BROFOL	BROFOL	BANFOL
Applied By:	C H SLACK	C H SLACK	C H SLACK
Air Temperature, Unit:	75 F	74 F	74 F
% Relative Humidity:	27	73	68
Wind Velocity, Unit:	2 MPH	6 MPH	6 MPH
Wind Direction:	SW	NW	SW
Soil Temperature, Unit:	65 F	70 F	72 F
Soil Moisture:	EXCELL	GOOD	GOOD
% Cloud Cover:	10	30	10
Next Rain Occurred On:	5-8-2010	5-30-2010	6-4-2010

Plant and Soil Science, U of KY
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Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH	BBCH
Stage Majority, Percent:		V3	V6
Height, Unit:		10 IN	20 IN

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	STEME W	STEME W	STEME W
Height, Unit:	4 IN	6 IN	
Pest 2 Code, Type, Scale:	LAMAM W	LAMAM W	LAMAM W
Height, Unit:	4 IN	6 IN	
Pest 3 Code, Type, Scale:	LACSE W	LACSE W	LACSE W
Height, Unit:	8 IN	10 IN	
Pest 4 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W
Height, Unit:	1 IN	3 IN	4 IN
Pest 5 Code, Type, Scale:	ERICA W	ERICA W	ERICA W
Height, Unit:	4 IN	6 IN	7 IN
Pest 6 Code, Type, Scale:	SETFA W	SETFA W	SETFA W
Height, Unit:		2 IN	3 IN
Pest 7 Code, Type, Scale:	CHEAL W	CHEAL W	CHEAL W
Height, Unit:		2 IN	3 IN

Application Equipment

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

Plant and Soil Science, U of KY
Weed Science Research

NO TILL CORN III

Trial ID: C10006 Protocol ID: FMC-FLUTCORN
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: JOSEPH REED

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9
	Pest Type				W Weed	W Weed	W Weed	W Weed	W Weed	W Weed		W Weed	W Weed
	Pest Code				STEME	LAMAM	LACSE	AMBTR	ERICA	SETFA		SETFA	AMBTR
	Pest Scientific Name				Stellaria media	Lamium amplexicaule	Lactuca serriola	Ambrosia trifida	Conyza canadensis	Setaria faberi		Setaria faberi	Ambrosia trifida
	Pest Name				Common chickweed	Henbit	Prickly lettuce	Giant ragweed	Marestail	Giant foxtail		Giant foxtail	Giant ragweed
	Crop Code										ZEAMX		
	BBCH Scale										BCOR		
	Crop Scientific Name										Zea mays		
	Crop Name										Corn		
	Rating Date				5-11-2010	5-11-2010	5-11-2010	5-11-2010	5-11-2010	5-11-2010	5-18-2010	5-18-2010	5-18-2010
	Rating Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
	Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	Number of Subsamples				1	1	1	1	1	1	1	1	1
	SE Description												
	Rating Timing				1 WEEK	1 WEEK	1 WEEK	1 WEEK	1 WEEK	1 WEEK	2 WEEK	2 WEEK	2 WEEK
	Days After First/Last Applic.				7 7	7 7	7 7	7 7	7 7	7 7	14 14	14 14	14 14
	Plant-Eval Interval				7 DP-1	7 DP-1	7 DP-1	7 DP-1	7 DP-1	7 DP-1	14 DP-1	14 DP-1	14 DP-1
	Days After Emergence				0 DE-1	0 DE-1	0 DE-1	0 DE-1	0 DE-1	0 DE-1	7 DE-1	7 DE-1	7 DE-1
	ARM Action Codes				P	P	P	P	P	P	P	P	P
	Number of Decimals				0	0	0	0	0	0	0	0	0
1	AUTHORITY MTZ	5.5	OZ/A	PRE	99	99	99	99	99	99	0	99	99
	CADET	0.5	OZ/A	12 C									
	IGNITE 280	22	OZ/A	12 C									
	AATREX	32	OZ/A	12 C									
	COC	1	% V/V	12 C									
2	AUTHORITY MTZ	5.5	OZ/A	PRE	99	99	99	99	99	99	0	99	99
	CADET	0.5	OZ/A	12 C									
	ROUNDUP WeatherMAX	24	OZ/A	12 C									
	AATREX	32	OZ/A	12 C									
	ACTIVATOR 90	0.25	% V/V	12 C									
3	GRAMOXONE INTEON	32	OZ/A	PRE	99	99	99	99	99	99	0	99	99
	AUTHORITY MTZ	5.5	OZ/A	PRE									
	CADET	0.5	OZ/A	12 C									
	PROWL H20	2	PT/A	12 C									
	ACCENT	0.66	OZ/A	12 C									
	ACTIVATOR 90	0.25	% V/V	12 C									
4	BICEP II MAGNUM	1.6	QT/A	PRE	99	99	85	83	85	99	0	99	99
	CADET	0.5	OZ/A	12 C									
	ROUNDUP WeatherMAX	32	OZ/A	12 C									
	AATREX	24	OZ/A	12 C									
	ACTIVATOR 90	0.25	% V/V	12 C									
5	GRAMOXONE INTEON	32	OZ/A	PRE	99	99	99	99	99	99	0	99	99
	AUTHORITY MTZ	5.5	OZ/A	PRE									
	CADET	0.5	OZ/A	12 C									
	ROUNDUP WeatherMAX	32	OZ/A	12 C									
	SENCOR	2	OZ/A	12 C									
	ACTIVATOR 90	0.25	% V/V	12 C									

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Pest Type			W Weed	W Weed	W Weed	W Weed	W Weed	W Weed		W Weed	W Weed
Pest Code			STEME	LAMAM	LACSE	AMBTR	ERICA	SETFA		SETFA	AMBTR
Pest Scientific Name			Stellaria media	Lamium amplexicaule	Lactuca serriola	Ambrosia trifida	Conyza canadensis	Setaria faberi		Setaria faberi	Ambrosia trifida
Pest Name			Common chickweed	Henbit	Prickly lettuce	Giant ragweed	Marestail	Giant foxtail		Giant foxtail	Giant ragweed
Crop Code									ZEAMX		
BBCH Scale									BCOR		
Crop Scientific Name									Zea mays		
Crop Name									Corn		
Rating Date			5-11-2010	5-11-2010	5-11-2010	5-11-2010	5-11-2010	5-11-2010	5-18-2010	5-18-2010	5-18-2010
Rating Type			CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit			PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples			1	1	1	1	1	1	1	1	1
SE Description											
Rating Timing			1 WEEK	1 WEEK	1 WEEK	1 WEEK	1 WEEK	1 WEEK	2 WEEK	2 WEEK	2 WEEK
Days After First/Last Applic.			7 7	7 7	7 7	7 7	7 7	7 7	14 14	14 14	14 14
Plant-Eval Interval			7 DP-1	7 DP-1	7 DP-1	7 DP-1	7 DP-1	7 DP-1	14 DP-1	14 DP-1	14 DP-1
Days After Emergence			0 DE-1	0 DE-1	0 DE-1	0 DE-1	0 DE-1	0 DE-1	7 DE-1	7 DE-1	7 DE-1
ARM Action Codes			P	P	P	P	P	P	P	P	P
Number of Decimals			0	0	0	0	0	0	0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9
6	GRAMOXONE INTEON	32	OZ/A	PRE	99	99	99	99	99	99	0	99	99
	COC	1	QT/A	PRE									
	STALWART XTRA	2	QT/A	PRE									
	ROUNDUP WeatherMAX	32	OZ/A	12 C									
	AMS	3	% V/V	12C									
7	CHECK				99	99	99	99	99	99	0	0	0
LSD (P=.05)					0.0	0.0	3.1	3.1	3.1	0.0	0.0	0.0	0.0
Standard Deviation					0.0	0.0	1.7	1.7	1.7	0.0	0.0	0.0	0.0
CV					0.0	0.0	1.8	1.81	1.8	0.0	0.0	0.0	0.0
Bartlett's X2					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P(Bartlett's X2)					.	.	.	.	.	.	.	.	.
Replicate F					0.000	0.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000
Replicate Prob(F)					1.0000	1.0000	0.3966	0.3966	0.3966	1.0000	1.0000	1.0000	1.0000
Treatment F					0.000	0.000	26.266	37.516	26.266	0.000	0.000	0.000	0.000
Treatment Prob(F)					1.0000	1.0000	0.0001	0.0001	0.0001	1.0000	1.0000	1.0000	1.0000

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Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	10	11	12	13	14	15	16	17	18	19
	Pest Type				W Weed	W Weed		W Weed	W Weed	W Weed	W Weed		W Weed	W Weed
	Pest Code				CHEAL	ERICA		SETFA	AMBTR	CHEAL	ERICA		SETFA	AMBTR
	Pest Scientific Name				Chenopodium album	Conyza canadensis		Setaria faberi	Ambrosia trifida	Chenopodium album	Conyza canadensis		Setaria faberi	Ambrosia trifida
	Pest Name				Common lambsquarters	Marestail		Giant foxtail	Giant ragweed	Common lambsquarters	Marestail		Giant foxtail	Giant ragweed
	Crop Code						ZEAMX					ZEAMX		
	BBCH Scale						BCOR					BCOR		
	Crop Scientific Name						Zea mays					Zea mays		
	Crop Name						Corn					Corn		
	Rating Date				5-18-2010	5-18-2010	6-2-2010	6-2-2010	6-2-2010	6-2-2010	6-2-2010	6-29-2010	6-29-2010	6-29-2010
	Rating Type				CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
	Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	Number of Subsamples				1	1	1	1	1	1	1	1	1	1
	SE Description													
	Rating Timing				2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK
	Days After First/Last Applic.				14 14	14 14	29 5	29 5	29 5	29 5	29 5	56 32	56 32	56 32
	Plant-Eval Interval				14 DP-1	14 DP-1	29 DP-1	29 DP-1	29 DP-1	29 DP-1	29 DP-1	56 DP-1	56 DP-1	56 DP-1
	Days After Emergence				7 DE-1	7 DE-1	22 DE-	22 DE-	22 DE-	22 DE-	22 DE-	49 DE-	49 DE-	49 DE-
	ARM Action Codes				P	P	P	P	P	P	P	P	P	P
	Number of Decimals				0	0	0	0	0	0	0	0	0	0
1	AUTHORITY MTZ	5.5	OZ/A	PRE	99	99	0	93	92	99	99	0	93	92
	CADET	0.5	OZ/A	12 C										
	IGNITE 280	22	OZ/A	12 C										
	AATREX	32	OZ/A	12 C										
	COC	1	% V/V	12 C										
2	AUTHORITY MTZ	5.5	OZ/A	PRE	99	99	0	94	98	99	99	0	94	98
	CADET	0.5	OZ/A	12 C										
	ROUNDUP WeatherMAX	24	OZ/A	12 C										
	AATREX	32	OZ/A	12 C										
	ACTIVATOR 90	0.25	% V/V	12 C										
3	GRAMOXONE INTEON	32	OZ/A	PRE	99	99	0	99	95	99	99	0	99	95
	AUTHORITY MTZ	5.5	OZ/A	PRE										
	CADET	0.5	OZ/A	12 C										
	PROWL H20	2	PT/A	12 C										
	ACCENT	0.66	OZ/A	12 C										
	ACTIVATOR 90	0.25	% V/V	12 C										
4	BICEP II MAGNUM	1.6	QT/A	PRE	99	99	0	96	99	99	99	0	96	99
	CADET	0.5	OZ/A	12 C										
	ROUNDUP WeatherMAX	32	OZ/A	12 C										
	AATREX	24	OZ/A	12 C										
	ACTIVATOR 90	0.25	% V/V	12 C										
5	GRAMOXONE INTEON	32	OZ/A	PRE	99	99	0	96	96	99	99	0	96	96
	AUTHORITY MTZ	5.5	OZ/A	PRE										
	CADET	0.5	OZ/A	12 C										
	ROUNDUP WeatherMAX	32	OZ/A	12 C										
	SENCOR	2	OZ/A	12 C										
	ACTIVATOR 90	0.25	% V/V	12 C										

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Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	10	11	12	13	14	15	16	17	18	19
	Pest Type				W Weed	W Weed		W Weed	W Weed	W Weed	W Weed		W Weed	W Weed
	Pest Code				CHEAL	ERICA		SETFA	AMBTR	CHEAL	ERICA		SETFA	AMBTR
	Pest Scientific Name				Chenopodium album	Conyza canadensis		Setaria faberi	Ambrosia trifida	Chenopodium album	Conyza canadensis		Setaria faberi	Ambrosia trifida
	Pest Name				Common lambsquarters	Marestail		Giant foxtail	Giant ragweed	Common lambsquarters	Marestail		Giant foxtail	Giant ragweed
	Crop Code						ZEAMX					ZEAMX		
	BBCH Scale						BCOR					BCOR		
	Crop Scientific Name						Zea mays					Zea mays		
	Crop Name						Corn					Corn		
	Rating Date				5-18-2010	5-18-2010	6-2-2010	6-2-2010	6-2-2010	6-2-2010	6-2-2010	6-29-2010	6-29-2010	6-29-2010
	Rating Type				CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
	Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	Number of Subsamples				1	1	1	1	1	1	1	1	1	1
	SE Description													
	Rating Timing				2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK
	Days After First/Last Applic.				14 14	14 14	29 5	29 5	29 5	29 5	29 5	56 32	56 32	56 32
	Plant-Eval Interval				14 DP-1	14 DP-1	29 DP-1	29 DP-1	29 DP-1	29 DP-1	29 DP-1	56 DP-1	56 DP-1	56 DP-1
	Days After Emergence				7 DE-1	7 DE-1	22 DE-	22 DE-	22 DE-	22 DE-	22 DE-	49 DE-	49 DE-	49 DE-
	ARM Action Codes				P	P	P	P	P	P	P	P	P	P
	Number of Decimals				0	0	0	0	0	0	0	0	0	0
6	GRAMOXONE INTEON	32	OZ/A	PRE	99	99	0	96	93	99	99	0	96	93
	COC	1	QT/A	PRE										
	STALWART XTRA	2	QT/A	PRE										
	ROUNDUP WeatherMAX	32	OZ/A	12 C										
	AMS	3	% V/V	12C										
7	CHECK				0	0	0	0	0	0	0	0	0	0
LSD (P=.05)					0.0	0.0	0.0	6.2	6.7	0.0	0.0	0.0	6.2	6.7
Standard Deviation					0.0	0.0	0.0	3.5	3.8	0.0	0.0	0.0	3.5	3.8
CV					0.0	0.0	0.0	4.22	4.59	0.0	0.0	0.0	4.22	4.59
Bartlett's X2					0.0	0.0	0.0	0.657	1.69	0.0	0.0	0.0	0.657	1.69
P(Bartlett's X2)					.	.	.	0.957	0.793	.	.	.	0.957	0.793
Replicate F					0.000	0.000	0.000	8.473	0.254	0.000	0.000	0.000	8.473	0.254
Replicate Prob(F)					1.0000	1.0000	1.0000	0.0051	0.7799	1.0000	1.0000	1.0000	0.0051	0.7799
Treatment F					0.000	0.000	0.000	328.740	278.179	0.000	0.000	0.000	328.740	278.179
Treatment Prob(F)					1.0000	1.0000	1.0000	0.0001	0.0001	1.0000	1.0000	1.0000	0.0001	0.0001

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Pest Type				W Weed	W Weed	
Pest Code				CHEAL	ERICA	
Pest Scientific Name				Chenopodium album	Conyza canadensis	
Pest Name				Common lambsquarters	Marestail	
Crop Code						ZEAMX
BBCH Scale						BCOR
Crop Scientific Name						Zea mays
Crop Name						Corn
Rating Date				6-29-2010	6-29-2010	9-13-2010
Rating Type				CONTROL	CONTROL	YIELD
Rating Unit				PERCENT	PERCENT	BU
Number of Subsamples				1	1	1
SE Description						15.5%
Rating Timing				8 WEEK	8 WEEK	
Days After First/Last Applic.				56 32	56 32	132 108
Plant-Eval Interval				56 DP-1	56 DP-1	132 DP-1
Days After Emergence				49 DE-	49 DE-	125 DE
ARM Action Codes				P	P	TY1
Number of Decimals				0	0	0
Trt No. Treatment Name	Rate	Rate Unit	Growth Stage	20	21	25
1 AUTHORITY MTZ	5.5	OZ/A	PRE	99	99	174
CADET	0.5	OZ/A	12 C			
IGNITE 280	22	OZ/A	12 C			
AATREX	32	OZ/A	12 C			
COC	1	% V/V	12 C			
2 AUTHORITY MTZ	5.5	OZ/A	PRE	99	99	155
CADET	0.5	OZ/A	12 C			
ROUNDUP WeatherMAX	24	OZ/A	12 C			
AATREX	32	OZ/A	12 C			
ACTIVATOR 90	0.25	% V/V	12 C			
3 GRAMOXONE INTEON	32	OZ/A	PRE	99	99	148
AUTHORITY MTZ	5.5	OZ/A	PRE			
CADET	0.5	OZ/A	12 C			
PROWL H20	2	PT/A	12 C			
ACCENT	0.66	OZ/A	12 C			
ACTIVATOR 90	0.25	% V/V	12 C			
4 BICEP II MAGNUM	1.6	QT/A	PRE	99	99	147
CADET	0.5	OZ/A	12 C			
ROUNDUP WeatherMAX	32	OZ/A	12 C			
AATREX	24	OZ/A	12 C			
ACTIVATOR 90	0.25	% V/V	12 C			
5 GRAMOXONE INTEON	32	OZ/A	PRE	99	99	141
AUTHORITY MTZ	5.5	OZ/A	PRE			
CADET	0.5	OZ/A	12 C			
ROUNDUP WeatherMAX	32	OZ/A	12 C			
SENCOR	2	OZ/A	12 C			
ACTIVATOR 90	0.25	% V/V	12 C			

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Pest Type			W Weed	W Weed	
Pest Code			CHEAL	ERICA	
Pest Scientific Name			Chenopodium album	Conyza canadensis	
Pest Name			Common lambsquarters	Marestail	
Crop Code					ZEAMX
BBCH Scale					BCOR
Crop Scientific Name					Zea mays
Crop Name					Corn
Rating Date			6-29-2010	6-29-2010	9-13-2010
Rating Type			CONTROL	CONTROL	YIELD
Rating Unit			PERCENT	PERCENT	BU
Number of Subsamples			1	1	1
SE Description					15.5%
Rating Timing			8 WEEK	8 WEEK	
Days After First/Last Applic.			56 32	56 32	132 108
Plant-Eval Interval			56 DP-1	56 DP-1	132 DP-1
Days After Emergence			49 DE-	49 DE-	125 DE
ARM Action Codes			P	P	TY1
Number of Decimals			0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	20	21	25
6	GRAMOXONE INTEON	32	OZ/A	PRE	99	99	143
	COC	1	QT/A	PRE			
	STALWART XTRA	2	QT/A	PRE			
	ROUNDUP WeatherMAX	32	OZ/A	12 C			
	AMS	3	% V/V	12C			
7	CHECK				0	0	105
LSD (P=.05)					0.0	0.0	23.3
Standard Deviation					0.0	0.0	13.1
CV					0.0	0.0	9.05
Bartlett's X2					0.0	0.0	8.43
P(Bartlett's X2)					.	.	0.208
Replicate F					0.000	0.000	5.640
Replicate Prob(F)					1.0000	1.0000	0.0188
Treatment F					0.000	0.000	7.560
Treatment Prob(F)					1.0000	1.0000	0.0016

Plant and Soil Science, U of KY
Weed Science Research

NO TILL CORN III

Trial ID: C10006 Protocol ID: FMC-FLUTCORN
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: JOSEPH REED

Pest Type
W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop
Pest Code
STEME, Stellaria media, = US
LAMAM, Lamium amplexicaule, = US
LACSE, Lactuca serriola, = US
AMBTR, Ambrosia trifida, = US
ERICA, Conyza canadensis, = US
SETFA, Setaria faberi, = US
CHEAL, Chenopodium album, = US
Crop Code
ZEAMX, BCOR, Zea mays, = US
Rating Type
YIELD = yield
Rating Unit
PERCENT = percent
BU = bushel
Plant-Eval Interval
7 DP-1 = 1 5-4-2010
14 DP-1 = 1 5-4-2010
29 DP-1 = 1 5-4-2010
56 DP-1 = 1 5-4-2010
132 DP-1 = 1 5-4-2010
ARM Action Codes
P = Rating scale of 0 to 100 (e.g. % control or injury)
TY1 = 5.457493*23

Plant and Soil Science, U of KY
Weed Science Research

NO TILL CORN III

Trial ID: C10006 Protocol ID: FMC-FLUTCORN
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: JOSEPH REED

General Trial Information

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Investigator: Charles H. Slack

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5-4-2010

Trial Location

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

Personnel

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Affiliation: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING
Location: LEXINGTON, KY
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu
Mobile No.: 859-227-3355
Investigator: Charles H. Slack
Affiliation: University of Kentucky
Location: Lexington, KY
Postal Code: 40546 **E-mail:** cslack@uky.edu

Other Personnel

Role	Name	Other
Research Analyst	Sara Carter	sara.carter@uky.edu

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: PIONEER 33F87
BBCH Scale: BCOR **Planting Date:** 5-4-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.75 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 65 F
Soil Moisture: WET wet **Emergence Date:** 5-11-2010
Harvest Date: 9-13-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 28 FT
% Standard Moisture: 15.5

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Pest Description

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

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

Pest 3 Type: W **Code:** LACSE Lactuca serriola
Common Name: Prickly lettuce

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

Pest 5 Type: W **Code:** ERICA Conyza canadensis
Common Name: Marestail

Pest 6 Type: W **Code:** SETFA Setaria faberi
Common Name: Giant foxtail

Pest 7 Type: W **Code:** CHEAL Chenopodium album
Common Name: Common lambsquarters

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD field
Plot Length, Unit: 44 FT
Plot Area, Unit: 440 FT2 **Tillage Type:** NOTILL no-till
Replications: 3 **Study Design:** 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:** 17 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

Overall Moisture Conditions: WEDRDR wet-dry-dry
Closest Weather Station: SPINDLETOP **Distance, Unit:** 1.25 MI

Application Description

	A	B
Application Date:	5-4-2010	5-28-2010
Time of Day:	5 PM	10 AM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	12C
Application Placement:	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	75 F	74 F
% Relative Humidity:	27	73
Wind Velocity, Unit:	2 MPH	6 MPH
Wind Direction:	SW	NW
Soil Temperature, Unit:	65 F	70 F
Soil Moisture:	EXCELL	GOOD
% Cloud Cover:	10	30
Next Rain Occurred On:	5-8-2010	5-30-2010

Crop Stage At Each Application

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

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Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	STEME W	STEME W
Height, Unit:	6 IN	
Pest 2 Code, Type, Scale:	LAMAM W	LAMAM W
Height, Unit:	6 IN	
Pest 3 Code, Type, Scale:	LACSE W	LACSE W
Height, Unit:	10 IN	
Pest 4 Code, Type, Scale:	AMBTR W	AMBTR W
Height, Unit:	2 IN	4 IN
Pest 5 Code, Type, Scale:	ERICA W	ERICA W
Height, Unit:	6 IN	4 IN
Pest 6 Code, Type, Scale:	SETFA W	SETFA W
Height, Unit:	2 IN	2 IN
Pest 7 Code, Type, Scale:	CHEAL W	CHEAL W
Height, Unit:	4 IN	2 IN

Application Equipment

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

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CORN POSTEMERGENCE

Trial ID: C10008 Protocol ID: AMVAC-10-TPZ-H-100
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: BILL O'NEAL

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9	10
	Pest Type					W Weed	W Weed	W Weed	W Weed		W Weed	W Weed	W Weed	W Weed
	Pest Code					SETFA	AMBTR	CHEAL	IPOSS		SETFA	AMBTR	CHEAL	IPOSS
	Pest Scientific Name					Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.		Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.
	Pest Name					Giant foxtail	Giant ragweed	Common lambsquarters	Morning glory		Giant foxtail	Giant ragweed	Common lambsquarters	Morning glory
	Crop Code				ZEAMX					ZEAMX				
	BBCH Scale				BCOR					BCOR				
	Crop Scientific Name				Zea mays					Zea mays				
	Crop Name				Corn					Corn				
	Rating Date				6-8-2010	6-8-2010	6-8-2010	6-8-2010	6-8-2010	6-22-2010	6-22-2010	6-22-2010	6-22-2010	6-22-2010
	Rating Type				INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
	Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	Number of Subsamples				1	1	1	1	1	1	1	1	1	1
	Rating Timing				2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
	Days After First/Last Applic.				39 13	39 13	39 13	39 13	39 13	53 27	53 27	53 27	53 27	53 27
	Plant-Eval Interval				40 DP-1	40 DP-1	40 DP-1	40 DP-1	40 DP-1	54 DP-1	54 DP-1	54 DP-1	54 DP-1	54 DP-1
	Days After Emergence				32 DE-	32 DE-	32 DE-	32 DE-	32 DE-	46 DE-	46 DE-	46 DE-	46 DE-	46 DE-
	ARM Action Codes				P	P	P	P	P	P	P	P	P	P
	Number of Decimals				0	0	0	0	0	0	0	0	0	0
1	CHECK UNTREATED				0	0	0	0	0	0	0	0	0	0
2	BICEP II MAGNUM	1	QT/A	PRE	0	98	83	98	92	0	95	63	91	83
3	BICEP II MAGNUM	1	QT/A	PRE	0	99	99	99	99	0	96	83	99	90
	IMPACT	0.75	FL OZ/A	MP										
	AATREX	16	FL OZ/A	MP										
	MSO	1	% V/V	MP										
	AMS	8.5	LB/100 GAL	MP										
4	BICEP II MAGNUM	1	QT/A	PRE	0	99	99	99	99	0	96	85	99	92
	IMPACT	0.5	FL OZ/A	MP										
	ROUNDUP POWERMAX	22	FL OZ/A	MP										
	AATREX	16	FL OZ/A	MP										
	AMS	8.5	LB/100 GAL	MP										
5	BICEP II MAGNUM	1	QT/A	PRE	0	99	98	99	99	0	95	83	99	92
	ROUNDUP POWERMAX	22	FL OZ/A	MP										
	AATREX	16	FL OZ/A	MP										
	AMS	8.5	LB/100 GAL	MP										
6	BICEP II MAGNUM	1	QT/A	PRE	0	99	99	99	99	0	92	87	99	90
	IMPACT	1	FL OZ/A	MP										
	ROUNDUP POWERMAX	11	FL OZ/A	MP										
	AATREX	16	FL OZ/A	MP										
	AMS	8.5	LB/100 GAL	MP										
7	BICEP II MAGNUM	1	QT/A	PRE	0	99	99	99	99	0	99	84	99	88
	IMPACT	0.5	FL OZ/A	MP										
	ROUNDUP POWERMAX	22	FL OZ/A	MP										
	AATREX	16	FL OZ/A	MP										
	MSO	1	% V/V	MP										
	AMS	8.5	LB/100 GAL	MP										

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Pest Type				W Weed	W Weed	W Weed	W Weed		W Weed	W Weed	W Weed	W Weed
Pest Code				SETFA	AMBTR	CHEAL	IPOSS		SETFA	AMBTR	CHEAL	IPOSS
Pest Scientific Name				Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.		Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.
Pest Name				Giant foxtail	Giant ragweed	Common lambsquarters	Morning glory		Giant foxtail	Giant ragweed	Common lambsquarters	Morning glory
Crop Code			ZEAMX					ZEAMX				
BBCH Scale			BCOR					BCOR				
Crop Scientific Name			Zea mays					Zea mays				
Crop Name			Corn					Corn				
Rating Date			6-8-2010	6-8-2010	6-8-2010	6-8-2010	6-8-2010	6-22-2010	6-22-2010	6-22-2010	6-22-2010	6-22-2010
Rating Type			INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit			PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples			1	1	1	1	1	1	1	1	1	1
Rating Timing			2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.			39 13	39 13	39 13	39 13	39 13	53 27	53 27	53 27	53 27	53 27
Plant-Eval Interval			40 DP-1	40 DP-1	40 DP-1	40 DP-1	40 DP-1	54 DP-1	54 DP-1	54 DP-1	54 DP-1	54 DP-1
Days After Emergence			32 DE-	32 DE-	32 DE-	32 DE-	32 DE-	46 DE-	46 DE-	46 DE-	46 DE-	46 DE-
ARM Action Codes			P	P	P	P	P	P	P	P	P	P
Number of Decimals			0	0	0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9	10
8	IMPACT	1	FL OZ/A	MP	0	99	99	99	99	0	98	91	99	92
	AATREX	16	FL OZ/A	MP										
	MSO	1	% V/V	MP										
	AMS	8.5	LB/100 GAL	MP										
9	LAUDIS	3	FL OZ/A	MP	0	98	99	99	99	0	93	95	99	91
	AATREX	16	FL OZ/A	MP										
	MSO	1	% V/V	MP										
	AMS	8.5	LB/100 GAL	MP										
10	CAPRENO HERBICIDE	3	FL OZ/A	MP	0	99	99	99	99	0	91	98	99	96
	AATREX	16	FL OZ/A	MP										
	COC	1	% V/V	MP										
	AMS	8.5	LB/100 GAL	MP										
11	BICEP II MAGNUM	1.3	LB AI/A	PRE	0	99	99	99	99	0	99	98	99	95
	HALEX GT	3.6	LB AI/A	MP										
	N-PAK AMS LIQUID	2.5	% V/V	MP										
	NIS	0.25	% V/V	MP										
12	HALEX GT	3.6	LB AI/A	MP	0	99	99	99	99	0	99	99	99	99
	AATREX	1	PT/A	MP										
	N-PAK AMS LIQUID	2.5	% V/V	MP										
	NIS	0.25	% V/V	MP										
LSD (P=.05)					0.0	1.5	5.7	1.1	1.4	0.0	6.7	8.0	1.8	4.7
Standard Deviation					0.0	0.9	3.3	0.7	0.8	0.0	4.0	4.7	1.0	2.8
CV					0.0	0.99	3.74	0.74	0.92	0.0	4.53	5.89	1.16	3.32
Bartlett's X2					0.0	0.0	3.744	0.0	0.0	0.0	2.937	8.188	0.0	2.329
P(Bartlett's X2)					.	.	0.053	.	.	.	0.891	0.415	.	0.939
Replicate F					0.000	2.200	1.435	1.000	1.000	0.000	0.900	2.133	1.000	1.991
Replicate Prob(F)					1.0000	0.1346	0.2596	0.3840	0.3840	1.0000	0.4209	0.1423	0.3840	0.1605
Treatment F					0.000	3018.335	218.321	5500.563	3500.200	0.000	146.183	98.455	2243.308	275.324
Treatment Prob(F)					1.0000	0.0001	0.0001	0.0001	0.0001	1.0000	0.0001	0.0001	0.0001	0.0001

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Pest Type				W Weed	W Weed	W Weed	W Weed					
Pest Code				SETFA	AMBTR	CHEAL	IPOSS					
Pest Scientific Name				Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.					
Pest Name				Giant foxtail	Giant ragweed	Common lambsquarters	Morning glory					
Crop Code			ZEAMX									ZEAMX
BBCH Scale			BCOR									BCOR
Crop Scientific Name			Zea mays									Zea mays
Crop Name			Corn									Corn
Rating Date			7-21-2010	7-21-2010	7-21-2010	7-21-2010	7-21-2010					
Rating Type			INJURY	CONTROL	CONTROL	CONTROL	CONTROL					YIELD
Rating Unit			PERCENT	PERCENT	PERCENT	PERCENT	PERCENT					BU
Number of Subsamples			1	1	1	1	1					1
Rating Timing			8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK					
Days After First/Last Applic.			82 56	82 56	82 56	82 56	82 56					
Plant-Eval Interval			83 DP-1	83 DP-1	83 DP-1	83 DP-1	83 DP-1					
Days After Emergence			75 DE-	75 DE-	75 DE-	75 DE-	75 DE-					
ARM Action Codes				P	P	P	P					TY1
Number of Decimals			0	0	0	0	0					0
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	11	12	13	14	15	19		
1	CHECK UNTREATED				0	0	0	0	0	15		
2	BICEP II MAGNUM	1	QT/A	PRE	0	95	53	91	67	31		
3	BICEP II MAGNUM	1	QT/A	PRE	0	93	77	99	83	143		
	IMPACT	0.75	FL OZ/A	MP								
	AATREX	16	FL OZ/A	MP								
	MSO	1	% V/V	MP								
	AMS	8.5	LB/100 GAL	MP								
4	BICEP II MAGNUM	1	QT/A	PRE	0	96	82	99	87	153		
	IMPACT	0.5	FL OZ/A	MP								
	ROUNDUP POWERMAX	22	FL OZ/A	MP								
	AATREX	16	FL OZ/A	MP								
	AMS	8.5	LB/100 GAL	MP								
5	BICEP II MAGNUM	1	QT/A	PRE	0	95	77	99	86	146		
	ROUNDUP POWERMAX	22	FL OZ/A	MP								
	AATREX	16	FL OZ/A	MP								
	AMS	8.5	LB/100 GAL	MP								
6	BICEP II MAGNUM	1	QT/A	PRE	0	89	83	99	84	138		
	IMPACT	1	FL OZ/A	MP								
	ROUNDUP POWERMAX	11	FL OZ/A	MP								
	AATREX	16	FL OZ/A	MP								
	AMS	8.5	LB/100 GAL	MP								
7	BICEP II MAGNUM	1	QT/A	PRE	0	96	77	99	85	144		
	IMPACT	0.5	FL OZ/A	MP								
	ROUNDUP POWERMAX	22	FL OZ/A	MP								
	AATREX	16	FL OZ/A	MP								
	MSO	1	% V/V	MP								
	AMS	8.5	LB/100 GAL	MP								

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Weed Science Research

Pest Type					W Weed		W Weed		W Weed		W Weed	
Pest Code					SETFA		AMBTR		CHEAL		IPOSS	
Pest Scientific Name					Setaria faberi		Ambrosia trifida		Chenopodium album		Ipomoea sp.	
Pest Name					Giant foxtail		Giant ragweed		Common lambsquarters		Morning glory	
Crop Code					ZEAMX							ZEAMX
BBCH Scale					BCOR							BCOR
Crop Scientific Name					Zea mays							Zea mays
Crop Name					Corn							Corn
Rating Date					7-21-2010		7-21-2010		7-21-2010		7-21-2010	
Rating Type					INJURY		CONTROL		CONTROL		CONTROL	YIELD
Rating Unit					PERCENT		PERCENT		PERCENT		PERCENT	BU
Number of Subsamples					1		1		1		1	1
Rating Timing					8 WEEK		8 WEEK		8 WEEK		8 WEEK	
Days After First/Last Applic.					82 56		82 56		82 56		82 56	
Plant-Eval Interval					83 DP-1		83 DP-1		83 DP-1		83 DP-1	
Days After Emergence					75 DE-		75 DE-		75 DE-		75 DE-	
ARM Action Codes							P		P		P	TY1
Number of Decimals					0		0		0		0	0
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	11	12	13	14	15	19		
8	IMPACT	1	FL OZ/A	MP	0	95	89	99	88	154		
	AATREX	16	FL OZ/A	MP								
	MSO	1	% V/V	MP								
	AMS	8.5	LB/100 GAL	MP								
9	LAUDIS	3	FL OZ/A	MP	0	86	93	99	88	165		
	AATREX	16	FL OZ/A	MP								
	MSO	1	% V/V	MP								
	AMS	8.5	LB/100 GAL	MP								
10	CAPRENO HERBICIDE	3	FL OZ/A	MP	0	87	98	99	87	148		
	AATREX	16	FL OZ/A	MP								
	COC	1	% V/V	MP								
	AMS	8.5	LB/100 GAL	MP								
11	BICEP II MAGNUM	1.3	LB AI/A	PRE	0	99	98	99	89	150		
	HALEX GT	3.6	LB AI/A	MP								
	N-PAK AMS LIQUID	2.5	% V/V	MP								
	NIS	0.25	% V/V	MP								
12	HALEX GT	3.6	LB AI/A	MP	0	99	99	99	92	138		
	AATREX	1	PT/A	MP								
	N-PAK AMS LIQUID	2.5	% V/V	MP								
	NIS	0.25	% V/V	MP								
LSD (P=.05)					0.0	6.8	7.7	1.8	8.9	15.7		
Standard Deviation					0.0	4.0	4.5	1.0	5.3	9.3		
CV					0.0	4.68	5.87	1.16	6.75	7.31		
Bartlett's X2					0.0	4.101	3.898	0.0	24.19	9.866		
P(Bartlett's X2)					.	0.848	0.918	.	0.007*	0.542		
Replicate F					0.000	4.151	0.168	1.000	0.218	1.483		
Replicate Prob(F)					1.0000	0.0296	0.8460	0.3840	0.8061	0.2488		
Treatment F					0.000	139.221	110.549	2243.308	69.409	84.326		
Treatment Prob(F)					1.0000	0.0001	0.0001	0.0001	0.0001	0.0001		

Plant and Soil Science, U of KY
Weed Science Research

CORN POSTEMERGENCE

Trial ID: C10008 Protocol ID: AMVAC-10-TPZ-H-100
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: BILL O'NEAL

Pest Type
W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop
Pest Code
SETFA, Setaria faberi, = US
AMBTR, Ambrosia trifida, = US
CHEAL, Chenopodium album, = US
IPOSS, Ipomoea sp., = US
Crop Code
ZEAMX, BCOR, Zea mays, = US
Rating Type
YIELD = yield
Rating Unit
PERCENT = percent
BU = bushel
Plant-Eval Interval
40 DP-1 = 1 4-29-2010
54 DP-1 = 1 4-29-2010
83 DP-1 = 1 4-29-2010
ARM Action Codes
P = Rating scale of 0 to 100 (e.g. % control or injury)
TY1 = 4.093985*17

Plant and Soil Science, U of KY
Weed Science Research

CORN POSTEMERGENCE

Trial ID: C10008 Protocol ID: AMVAC-10-TPZ-H-100
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: BILL O'NEAL

General Trial Information

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Investigator: Charles H. Slack

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 4-29-2010

Trial Location

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

Personnel

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Affiliation: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING
Location: LEXINGTON, KY
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu
Mobile No.: 859-227-3355
Investigator: Charles H. Slack
Affiliation: University of Kentucky
Location: Lexington, KY
Postal Code: 40546 **E-mail:** cslack@uky.edu

Other Personnel

Role	Name	Other
Research Analyst	Sara Carter	sara.carter@uky.edu

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC 62 54
BBCH Scale: BCOR **Planting Date:** 4-29-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 55 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-7-2010
Harvest Date: 9-17-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 38 FT
% Standard Moisture: 15.5

Plant and Soil Science, U of KY
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Pest Description

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

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

Pest 3 Type: W **Code:** CHEAL Chenopodium album
Common Name: Common lambsquarters

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

Site and Design

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

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.6 **Texture:** SIL silt loam
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY SILT LOAM
% Clay: 32 **CEC:** 17 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

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

Application Description

	A	B
Application Date:	4-30-2010	5-26-2010
Time of Day:	10 AM	3 PM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	MP
Application Placement:	BROSOI	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	74 F	83 F
% Relative Humidity:	41	46
Wind Velocity, Unit:	10 MPH	7 MPH
Wind Direction:	SW	NNW
Soil Temperature, Unit:	58 F	72 F
Soil Moisture:	GOOD	GOOD
% Cloud Cover:	10	10
Next Rain Occurred On:	5-1-2010	5-30-2010

Crop Stage At Each Application

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

Application Equipment

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

Plant and Soil Science, U of KY
Weed Science Research

CORN POSTEMERGENCE II

Trial ID: C10009 Protocol ID: SYN-HSCCORN4
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: SCOTT CULLY

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9	10
	Pest Type					W Weed	W Weed	W Weed	W Weed		W Weed	W Weed	W Weed	W Weed
	Pest Code					SETFA	AMBTR	CHEAL	IPOSS		SETFA	AMBTR	CHEAL	IPOSS
	Pest Scientific Name					Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.		Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.
	Pest Name					Giant foxtail	Giant ragweed	Common lambsquarters	Morning glory		Giant foxtail	Giant ragweed	Common lambsquarters	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	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
	Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	Number of Subsamples				1	1	1	1	1	1	1	1	1	1
	SE Description													
	Rating Timing				2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
	ARM Action Codes				P	P	P	P	P	P	P	P	P	P
	Number of Decimals				0	0	0	0	0	0	0	0	0	0
1	CHECK UNTREATED				0	0	0	0	0	0	0	0	0	0
2	LUMAX	2.5	QT/A	PRE	0	99	93	99	99	0	96	80	99	88
	AATREX	1	QT/A	PRE										
3	LEXAR	3	QT/A	PRE	0	99	98	99	98	0	96	89	99	91
	PRINCEP	1	QT/A	PRE										
4	LEXAR	1.5	QT/A	PRE	0	99	99	99	99	0	99	95	99	93
	LEXAR	1.35	QT/A	EP-V3										
5	LEXAR	2.25	QT/A	PRE	0	99	99	99	99	0	99	89	99	88
	TOUCHDOWN TOTAL	24	FL OZ/A	LP-V6										
	AMS	8.5	LB/100 GAL	LP-V6										
6	BICEP II MAGNUM	1.3	QT/A	PRE	0	99	99	99	99	0	99	95	99	95
	HALEX GT	3.6	PT/A	LP-V6										
	N-PAK AMS LIQUID	2.5	% V/V	LP-V6										
	NIS	0.25	% V/V	LP-V6										
7	LEXAR	2.5	QT/A	PRE	0	99	99	99	99	0	99	95	99	95
	HALEX GT	3.6	PT/A	LP-V6										
	N-PAK AMS LIQUID	2.5	% V/V	LP-V6										
	NIS	0.25	% V/V	LP-V6										
8	HALEX GT	3.6	PT/A	EP-V3	0	99	99	99	99	0	99	98	99	96
	AATREX	1	PT/A	EP-V3										
	N-PAK AMS LIQUID	2.5	% V/V	EP-V3										
	NIS	0.25	% V/V	EP-V3										
9	TOUCHDOWN TOTAL	30	FL OZ/A	EP-V3	0	99	99	99	99	0	89	91	99	93
	CALLISTO	3	FL OZ/A	EP-V3										
	N-PAK AMS LIQUID	2.5	% V/V	EP-V3										
10	TOUCHDOWN TOTAL	30	FL OZ/A	EP-V3	0	99	99	99	99	0	90	95	99	95
	CALLISTO XTRA	1.5	PT/A	EP-V3										
	N-PAK AMS LIQUID	2.5	% V/V	EP-V3										
11	FIERCE	3	OZ/A	PRE	0	99	86	99	96	0	99	75	99	84
	AATREX	1	QT/A	PRE										
12	INTEGRITY	5	FL OZ/A	PRE	0	99	82	99	95	0	96	70	99	87
	GUARDSMAN MAX	2.5	PT/A	PRE										

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Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9	10
	Pest Type					W Weed	W Weed	W Weed	W Weed		W Weed	W Weed	W Weed	W Weed
	Pest Code					SETFA	AMBTR	CHEAL	IPOSS		SETFA	AMBTR	CHEAL	IPOSS
	Pest Scientific Name					Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.		Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.
	Pest Name					Giant foxtail	Giant ragweed	Common lambsquarters	Morning glory		Giant foxtail	Giant ragweed	Common lambsquarters	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	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
	Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	Number of Subsamples				1	1	1	1	1	1	1	1	1	1
	SE Description													
	Rating Timing				2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
	ARM Action Codes				P	P	P	P	P	P	P	P	P	P
	Number of Decimals				0	0	0	0	0	0	0	0	0	0
13	PREQUEL	1.6	OZ/A	PRE	0	99	98	99	98	0	92	84	96	87
	CINCH ATZ	1	QT/A	PRE										
14	CORVUS HERBICIDE	5.6	FL OZ/A	PRE	0	99	99	99	99	0	96	93	99	93
	AATREX	1	QT/A	PRE										
	TOUCHDOWN TOTAL	24	FL OZ/A	LP-V6										
	AMS	8.5	LB/100 GAL	LP-V6										
15	BALANCE FLEXX HERBICIDE	6	FL OZ/A	PRE	0	99	99	99	99	0	93	89	99	92
	AATREX	1	QT/A	PRE										
	TOUCHDOWN TOTAL	24	OZ/A	LP-V6										
	AMS	8.5	LB/100 GAL	LP-V6										
16	INTEGRITY	13	FL OZ/A	PRE	0	99	99	99	99	0	93	89	99	91
	TOUCHDOWN TOTAL	24	FL OZ/A	LP-V6										
	AMS	8.5	LB/100 GAL	LP-V6										
17	SURESTART	1.75	PT/A	PRE	0	99	99	99	99	0	89	91	99	86
	DURANGO DMA	24	FL OZ/A	LP-V6										
	AMS	8.5	LB/100 GAL	LP-V6										
18	GUARDSMAN MAX	2.5	PT/A	PRE	0	99	99	99	99	0	92	96	99	95
	ROUNDUP POWERMAX	22	FL OZ/A	LP-V6										
	STATUS	2.5	OZ/A	LP-V6										
	N-PAK AMS LIQUID	2.5	% V/V	LP-V6										
19	BALANCE FLEXX HERBICIDE	3	FL OZ/A	PRE	0	99	99	99	98	0	99	93	99	88
	CAPRENO HERBICIDE	3	FL OZ/A	LP-V6										
	ROUNDUP POWERMAX	22	FL OZ/A	LP-V6										
	N-PAK AMS LIQUID	2.5	% V/V	LP-V6										
20	CORVUS HERBICIDE	5.6	FL OZ/A	PRE	3	99	99	99	99	3	99	98	99	98
	CAPRENO HERBICIDE	3	FL OZ/A	LP-V6										
	ROUNDUP POWERMAX	22	FL OZ/A	LP-V6										
	N-PAK AMS LIQUID	2.5	% V/V	LP-V6										
21	ROUNDUP POWERMAX	22	FL OZ/A	EP-V3	0	99	99	99	99	0	95	92	99	89
	LAUDIS	3	FL OZ/A	EP-V3										
	AATREX	1	PT/A	EP-V3										
	N-PAK AMS LIQUID	2.5	% V/V	EP-V3										
22	DURANGO DMA	24	FL OZ/A	EP-V3	0	99	99	99	99	0	99	92	99	88
	SURESTART	1.75	PT/A	EP-V3										
	N-PAK AMS LIQUID	2.5	% V/V	EP-V3										
23	ROUNDUP POWERMAX	22	FL OZ/A	EP-V3	0	99	99	99	99	0	96	89	99	93
	CAPRENO HERBICIDE	3	FL OZ/A	EP-V3										
	AATREX	1	PT/A	EP-V3										
	N-PAK AMS LIQUID	2.5	% V/V	EP-V3										
24	ROUNDUP POWERMAX	22	FL OZ/A	EP-V3	0	99	99	99	99	0	86	80	99	85
	N-PAK AMS LIQUID	2.5	% V/V	EP-V3										

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Pest Type				W Weed	W Weed	W Weed	W Weed		W Weed	W Weed	W Weed	W Weed				
Pest Code				SETFA	AMBTR	CHEAL	IPOSS		SETFA	AMBTR	CHEAL	IPOSS				
Pest Scientific Name				Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.		Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.				
Pest Name				Giant foxtail	Giant ragweed	Common lambsquarters	Morning glory		Giant foxtail	Giant ragweed	Common lambsquarters	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	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL				
Rating Unit			PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT				
Number of Subsamples			1	1	1	1	1	1	1	1	1	1				
SE Description																
Rating Timing			2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK				
ARM Action Codes			P	P	P	P	P	P	P	P	P	P				
Number of Decimals			0	0	0	0	0	0	0	0	0	0				
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9	10		
25	ROUNDUP POWERMAX	22	FL OZ/A	EP-V3	0	99	99	99	99	0	93	91	99	89		
	N-PAK AMS LIQUID	2.5	% V/V	EP-V3												
	ROUNDUP POWERMAX	22	FL OZ/A	LP-V6												
	N-PAK AMS LIQUID	2.5	% V/V	LP-V6												
26	INTEGRITY	13	FL OZ/A	PRE	0	99	83	99	93	0	93	72	99	88		
27	SHARPEN	1	FL OZ/A	PRE	0	99	85	99	95	0	98	67	99	83		
	GUARDSMAN MAX	2.5	PT/A	PRE												
28	CHECK				0	0	0	0	0	0	0	0	0	0		
LSD (P=.05)					1.8	0.0	3.3	0.0	2.9	1.8	5.7	6.2	1.6	5.8		
Standard Deviation					1.1	0.0	2.0	0.0	1.8	1.1	3.5	3.8	1.0	3.5		
CV					916.52	0.0	2.27	0.0	1.97	916.52	3.93	4.61	1.07	4.22		
Bartlett's X2					0.0	0.0	3.584	0.0	3.014	0.0	9.881	24.618	0.0	16.427		
P(Bartlett's X2)					.	.	0.733	.	0.807	.	0.827	0.174	.	0.794		
Replicate F					1.000	0.000	0.425	0.000	1.521	1.000	3.510	0.781	1.000	2.239		
Replicate Prob(F)					0.3746	1.0000	0.6559	1.0000	0.2278	0.3746	0.0369	0.4631	0.3746	0.1164		
Treatment F					1.000	0.000	482.961	0.000	618.905	1.000	158.244	127.494	2093.445	138.292		
Treatment Prob(F)					0.4852	1.0000	0.0001	1.0000	0.0001	0.4852	0.0001	0.0001	0.0001	0.0001		

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Pest Type				W Weed	W Weed	W Weed	W Weed			
Pest Code				SETFA	AMBTR	CHEAL	IPOSS			
Pest Scientific Name				Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.			
Pest Name				Giant foxtail	Giant ragweed	Common lambsquarters	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	CONTROL	YIELD		
Rating Unit			PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	BU		
Number of Subsamples			1	1	1	1	1	1		
SE Description								15.5%		
Rating Timing			8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK			
ARM Action Codes			P	P	P	P	P	TY1		
Number of Decimals			0	0	0	0	0	0		
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	11	12	13	14	15	19
1	CHECK UNTREATED				0	0	0	0	0	21
2	LUMAX	2.5	QT/A	PRE	0	96	63	99	82	130
	AATREX	1	QT/A	PRE						
3	LEXAR	3	QT/A	PRE	0	94	82	99	86	137
	PRINCEP	1	QT/A	PRE						
4	LEXAR	1.5	QT/A	PRE	0	99	93	99	87	163
	LEXAR	1.35	QT/A	EP-V3						
5	LEXAR	2.25	QT/A	PRE	0	98	84	99	88	184
	TOUCHDOWN TOTAL	24	FL OZ/A	LP-V6						
	AMS	8.5	LB/100 GAL	LP-V6						
6	BICEP II MAGNUM	1.3	QT/A	PRE	0	99	95	99	91	172
	HALEX GT	3.6	PT/A	LP-V6						
	N-PAK AMS LIQUID	2.5	% V/V	LP-V6						
	NIS	0.25	% V/V	LP-V6						
7	LEXAR	2.5	QT/A	PRE	0	99	95	99	89	185
	HALEX GT	3.6	PT/A	LP-V6						
	N-PAK AMS LIQUID	2.5	% V/V	LP-V6						
	NIS	0.25	% V/V	LP-V6						
8	HALEX GT	3.6	PT/A	EP-V3	0	96	95	99	90	171
	AATREX	1	PT/A	EP-V3						
	N-PAK AMS LIQUID	2.5	% V/V	EP-V3						
	NIS	0.25	% V/V	EP-V3						
9	TOUCHDOWN TOTAL	30	FL OZ/A	EP-V3	0	86	91	99	91	174
	CALLISTO	3	FL OZ/A	EP-V3						
	N-PAK AMS LIQUID	2.5	% V/V	EP-V3						
10	TOUCHDOWN TOTAL	30	FL OZ/A	EP-V3	0	84	93	99	95	186
	CALLISTO XTRA	1.5	PT/A	EP-V3						
	N-PAK AMS LIQUID	2.5	% V/V	EP-V3						
11	FIERCE	3	OZ/A	PRE	0	99	62	99	78	81
	AATREX	1	QT/A	PRE						
12	INTEGRITY	5	FL OZ/A	PRE	0	95	57	99	80	48
	GUARDSMAN MAX	2.5	PT/A	PRE						

Plant and Soil Science, U of KY
Weed Science Research

Pest Type				W Weed	W Weed	W Weed	W Weed					
Pest Code				SETFA	AMBTR	CHEAL	IPOSS					
Pest Scientific Name				Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.					
Pest Name				Giant foxtail	Giant ragweed	Common lambsquarters	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	CONTROL	YIELD				
Rating Unit			PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	BU				
Number of Subsamples			1	1	1	1	1	1				
SE Description								15.5%				
Rating Timing			8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK					
ARM Action Codes			P	P	P	P	P	TY1				
Number of Decimals			0	0	0	0	0	0				
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	11	12	13	14	15	19		
13	PREQUEL	1.6	OZ/A	PRE	0	88	75	95	83	155		
	CINCH ATZ	1	QT/A	PRE								
14	CORVUS HERBICIDE	5.6	FL OZ/A	PRE	0	90	91	99	91	159		
	AATREX	1	QT/A	PRE								
	TOUCHDOWN TOTAL	24	FL OZ/A	LP-V6								
	AMS	8.5	LB/100 GAL	LP-V6								
15	BALANCE FLEXX HERBICIDE	6	FL OZ/A	PRE	0	91	86	99	89	182		
	AATREX	1	QT/A	PRE								
	TOUCHDOWN TOTAL	24	OZ/A	LP-V6								
	AMS	8.5	LB/100 GAL	LP-V6								
16	INTEGRITY	13	FL OZ/A	PRE	0	87	87	99	87	159		
	TOUCHDOWN TOTAL	24	FL OZ/A	LP-V6								
	AMS	8.5	LB/100 GAL	LP-V6								
17	SURESTART	1.75	PT/A	PRE	0	83	88	99	83	149		
	DURANGO DMA	24	FL OZ/A	LP-V6								
	AMS	8.5	LB/100 GAL	LP-V6								
18	GUARDSMAN MAX	2.5	PT/A	PRE	0	91	94	99	91	161		
	ROUNDUP POWERMAX	22	FL OZ/A	LP-V6								
	STATUS	2.5	OZ/A	LP-V6								
	N-PAK AMS LIQUID	2.5	% V/V	LP-V6								
19	BALANCE FLEXX HERBICIDE	3	FL OZ/A	PRE	0	98	93	99	83	138		
	CAPRENO HERBICIDE	3	FL OZ/A	LP-V6								
	ROUNDUP POWERMAX	22	FL OZ/A	LP-V6								
	N-PAK AMS LIQUID	2.5	% V/V	LP-V6								
20	CORVUS HERBICIDE	5.6	FL OZ/A	PRE	3	99	98	99	96	167		
	CAPRENO HERBICIDE	3	FL OZ/A	LP-V6								
	ROUNDUP POWERMAX	22	FL OZ/A	LP-V6								
	N-PAK AMS LIQUID	2.5	% V/V	LP-V6								
21	ROUNDUP POWERMAX	22	FL OZ/A	EP-V3	0	90	88	99	83	170		
	LAUDIS	3	FL OZ/A	EP-V3								
	AATREX	1	PT/A	EP-V3								
	N-PAK AMS LIQUID	2.5	% V/V	EP-V3								
22	DURANGO DMA	24	FL OZ/A	EP-V3	0	96	89	99	83	184		
	SURESTART	1.75	PT/A	EP-V3								
	N-PAK AMS LIQUID	2.5	% V/V	EP-V3								
23	ROUNDUP POWERMAX	22	FL OZ/A	EP-V3	0	94	89	99	89	202		
	CAPRENO HERBICIDE	3	FL OZ/A	EP-V3								
	AATREX	1	PT/A	EP-V3								
	N-PAK AMS LIQUID	2.5	% V/V	EP-V3								
24	ROUNDUP POWERMAX	22	FL OZ/A	EP-V3	0	80	73	99	77	176		
	N-PAK AMS LIQUID	2.5	% V/V	EP-V3								

Plant and Soil Science, U of KY
Weed Science Research

Pest Type				W Weed	W Weed	W Weed	W Weed	
Pest Code				SETFA	AMBTR	CHEAL	IPOSS	
Pest Scientific Name				Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.	
Pest Name				Giant foxtail	Giant ragweed	Common lambsquarters	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	CONTROL	YIELD
Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	BU
Number of Subsamples				1	1	1	1	1	1
SE Description									15.5%
Rating Timing				8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	
ARM Action Codes				P	P	P	P	P	TY1
Number of Decimals				0	0	0	0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	11	12	13	14	15	19
25	ROUNDUP POWERMAX	22	FL OZ/A	EP-V3	0	88	88	99	85	188
	N-PAK AMS LIQUID	2.5	% V/V	EP-V3						
	ROUNDUP POWERMAX	22	FL OZ/A	LP-V6						
	N-PAK AMS LIQUID	2.5	% V/V	LP-V6						
26	INTEGRITY	13	FL OZ/A	PRE	0	93	53	95	83	51
27	SHARPEN	1	FL OZ/A	PRE	0	91	50	99	80	45
	GUARDSMAN MAX	2.5	PT/A	PRE						
28	CHECK				0	0	0	0	0	23
LSD (P=.05)					1.8	8.0	11.6	2.8	6.4	24.3
Standard Deviation					1.1	4.9	7.1	1.7	3.9	14.9
CV					916.52	5.73	9.27	1.87	4.93	10.51
Bartlett's X2					0.0	20.182	48.244	0.0	22.337	20.839
P(Bartlett's X2)					.	0.447	0.002*	.	0.44	0.794
Replicate F					1.000	3.221	0.947	0.491	2.079	0.326
Replicate Prob(F)					0.3746	0.0477	0.3941	0.6148	0.1349	0.7233
Treatment F					1.000	76.235	38.878	686.255	103.054	40.703
Treatment Prob(F)					0.4852	0.0001	0.0001	0.0001	0.0001	0.0001

Plant and Soil Science, U of KY
Weed Science Research

CORN POSTEMERGENCE II

Trial ID: C10009
Location: LEXINGTON, KY
Project ID:

Protocol ID: SYN-HSCCORN4
Study Director: CHARLES H. SLACK
Investigator: Charles H Slack
Sponsor Contact: SCOTT CULLY

Pest Type
W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop
Pest Code
SETFA, Setaria faberi, = US
AMBTR, Ambrosia trifida, = US
CHEAL, Chenopodium album, = US
IPOSS, Ipomoea sp., = US
Crop Code
ZEAMX, BCOR, Zea mays, = US
Rating Type
YIELD = yield
Rating Unit
PERCENT = percent
BU = bushel
ARM Action Codes
P = Rating scale of 0 to 100 (e.g. % control or injury)
TY1 = 4.39814*17

Plant and Soil Science, U of KY
Weed Science Research

CORN POSTEMERGENCE II

Trial ID: C10009 Protocol ID: SYN-HSCCORN4
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: SCOTT CULLY

General Trial Information

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Investigator: Charles H. Slack

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 4-29-2010

Trial Location

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

Personnel

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Affiliation: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING
Location: LEXINGTON, KY
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu
Mobile No.: 859-227-3355
Investigator: Charles H. Slack
Affiliation: University of Kentucky
Location: Lexington, KY
Postal Code: 40546 **E-mail:** cslack@uky.edu

Other Personnel

Role	Name	Other
Research Analyst	Sara Carter	sara.carter@uky.edu

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC 62 54
BBCH Scale: BCOR **Planting Date:** 4-29-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 55 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-7-2010
Harvest Date: 9-13-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 38 FT
% Standard Moisture: 15.5

Plant and Soil Science, U of KY
Weed Science Research

Pest Description

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

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

Pest 3 Type: W **Code:** CHEAL Chenopodium album
Common Name: Common lambsquarters

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

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD field
Plot Length, Unit: 44 FT
Plot Area, Unit: 440 FT2 **Tillage Type:** CONTIL conventional-till
Replications: 3 **Study Design:** 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:** 17 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

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

Application Description

	A	B	C
Application Date:	4-30-2010	5-24-2010	6-3-2010
Time of Day:	10 AM	3 PM	10 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	EP-V3	LP-V6
Application Placement:	BROSOI	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	C H SLACK
Air Temperature, Unit:	74 F	82 F	74 F
% Relative Humidity:	41	47	68
Wind Velocity, Unit:	10 MPH	8 MPH	6 MPH
Wind Direction:	SW	ENE	SW
Soil Temperature, Unit:	58 F	79 F	75 F
Soil Moisture:	GOOD	GOOD	GOOD
% Cloud Cover:	10	20	10
Next Rain Occurred On:	5-1-2010	5-30-2010	6-4-2010

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH	BBCH
Stage Majority, Percent:		V3	V6
Height, Unit:		10 IN	20 IN

Plant and Soil Science, U of KY
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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
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W
Height, Unit:		4 IN	5 IN
Pest 3 Code, Type, Scale:	CHEAL W	CHEAL W	CHEAL W
Height, Unit:		2 IN	3 IN
Pest 4 Code, Type, Scale:	IPOSS W	IPOSS W	IPOSS W
Height, Unit:		1 IN	2 IN

Application Equipment

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

Plant and Soil Science, U of KY
Weed Science Research

CORN POSTEMERGENCE III

Trial ID: C10010 Protocol ID: DUPONT--USA-111-10-01
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: HELEN FLANIGAN

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9	10	11
	Pest Type					W Weed	W Weed	W Weed	W Weed		W Weed	W Weed	W Weed	W Weed	
	Pest Code					SETFA	AMBTR	CHEAL	IPOSS		SETFA	AMBTR	CHEAL	IPOSS	
	Pest Scientific Name					Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.		Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.	
	Pest Name					Giant foxtail	Giant ragweed	Common lambsquarters	Morning glory		Giant foxtail	Giant ragweed	Common lambsquarters	Morning glory	
	Crop Code				ZEAMX					ZEAMX					ZEAMX
	BBCH Scale				BCOR					BCOR					BCOR
	Crop Scientific Name				Zea mays					Zea mays					Zea mays
	Crop Name				Corn					Corn					Corn
	Rating Date				6-8-2010	6-8-2010	6-8-2010	6-8-2010	6-8-2010	6-22-2010	6-22-2010	6-22-2010	6-22-2010	6-22-2010	7-19-2010
	Rating Type				INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
	Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	Number of Subsamples				1	1	1	1	1	1	1	1	1	1	1
	Rating Timing				2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK
	Days After First/Last Applic.				39 15	39 15	39 15	39 15	39 15	53 29	53 29	53 29	53 29	53 29	80 56
	Plant-Eval Interval				40 DP-1	40 DP-1	40 DP-1	40 DP-1	40 DP-1	54 DP-1	54 DP-1	54 DP-1	54 DP-1	54 DP-1	81 DP-1
	Days After Emergence				34 DE-	34 DE-	34 DE-	34 DE-	34 DE-	48 DE-	48 DE-	48 DE-	48 DE-	48 DE-	75 DE-
	ARM Action Codes				P	P	P	P	P	P	P	P	P	P	P
	Number of Decimals				0	0	0	0	0	0	0	0	0	0	0
1	REALM Q	4	OZ/A	V3	0	96	98	99	99	0	92	95	99	96	0
	COC	1	PT/A	V3											
	AMS	3.7	% V/V	V3											
2	CINCH ATZ	1	QT/A	PRE	0	99	99	99	98	0	99	95	99	92	0
	REALM Q	4	OZ/A	V3											
	COC	1	PT/A	V3											
	AMS	3.7	% V/V	V3											
3	REALM Q	4	OZ/A	V3	0	98	99	99	99	0	96	92	99	93	0
	ABUNDIT	32	FL OZ/A	V3											
	AMS	3.7	% V/V	V3											
4	REALM Q	4	OZ/A	V3	0	99	99	99	99	0	97	93	99	93	0
	IGNITE 280	22	FL OZ/A	V3											
	AMS	3.7	% V/V	V3											
5	REALM Q	4	OZ/A	V3	0	93	99	99	99	0	93	95	99	98	0
	AATREX	1	LB AI/A	V3											
	COC	1	PT/A	V3											
	AMS	3.7	% V/V	V3											
6	PREQUEL	1.66	OZ/A	PRE	0	99	99	99	99	0	99	98	99	95	0
	REALM Q	4	OZ/A	V3											
	AATREX	1	LB AI/A	V3											
	COC	1	PT/A	V3											
	AMS	3.7	% V/V	V3											
7	STEADFAST Q	1.5	OZ/A	V3	0	96	96	99	99	0	92	95	99	96	0
	MESOTRIONE	1.25	OZ AI/A	V3											
	COC	1	PT/A	V3											
	AMS	3.7	% V/V	V3											

Plant and Soil Science, U of KY
Weed Science Research

Pest Type			W Weed	W Weed	W Weed	W Weed		W Weed	W Weed	W Weed	W Weed	
Pest Code			SETFA	AMBTR	CHEAL	IPOSS		SETFA	AMBTR	CHEAL	IPOSS	
Pest Scientific Name			Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.		Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.	
Pest Name			Giant foxtail	Giant ragweed	Common lambsquarters	Morning glory		Giant foxtail	Giant ragweed	Common lambsquarters	Morning glory	
Crop Code		ZEAMX					ZEAMX					ZEAMX
BBCH Scale		BCOR					BCOR					BCOR
Crop Scientific Name		Zea mays					Zea mays					Zea mays
Crop Name		Corn					Corn					Corn
Rating Date		6-8-2010	6-8-2010	6-8-2010	6-8-2010	6-8-2010	6-22-2010	6-22-2010	6-22-2010	6-22-2010	6-22-2010	7-19-2010
Rating Type		INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples		1	1	1	1	1	1	1	1	1	1	1
Rating Timing		2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK
Days After First/Last Applic.		39 15	39 15	39 15	39 15	39 15	53 29	53 29	53 29	53 29	53 29	80 56
Plant-Eval Interval		40 DP-1	40 DP-1	40 DP-1	40 DP-1	40 DP-1	54 DP-1	54 DP-1	54 DP-1	54 DP-1	54 DP-1	81 DP-1
Days After Emergence		34 DE-	34 DE-	34 DE-	34 DE-	34 DE-	48 DE-	48 DE-	48 DE-	48 DE-	48 DE-	75 DE-
ARM Action Codes		P	P	P	P	P	P	P	P	P	P	P
Number of Decimals		0	0	0	0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9	10	11
8	CHECK UNTREATED				0	0	0	0	0	0	0	0	0	0	0
LSD (P=.05)					0.0	4.3	3.6	0.0	1.4	0.0	5.7	5.6	0.0	5.4	0.0
Standard Deviation					0.0	2.5	2.1	0.0	0.8	0.0	3.2	3.2	0.0	3.1	0.0
CV					0.0	2.91	2.4	0.0	0.94	0.0	3.89	3.87	0.0	3.69	0.0
Bartlett's X2					0.0	2.192	1.156	0.0	0.0	0.0	2.258	1.792	0.0	2.994	0.0
P(Bartlett's X2)					.	0.533	0.282	.	.	.	0.688	0.877	.	0.701	.
Replicate F					0.000	0.007	0.597	0.000	1.000	0.000	0.111	3.524	0.000	0.138	0.000
Replicate Prob(F)					1.0000	0.9932	0.5638	1.0000	0.3927	1.0000	0.8961	0.0576	1.0000	0.8726	1.0000
Treatment F					0.000	579.235	853.634	0.000	5492.849	0.000	326.031	327.327	0.000	360.882	0.000
Treatment Prob(F)					1.0000	0.0001	0.0001	1.0000	0.0001	1.0000	0.0001	0.0001	1.0000	0.0001	1.0000

Plant and Soil Science, U of KY
Weed Science Research

Pest Type				W Weed	W Weed	W Weed	W Weed	
Pest Code				SETFA	AMBTR	CHEAL	IPOSS	
Pest Scientific Name				Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.	
Pest Name				Giant foxtail	Giant ragweed	Common lambsquarters	Morning glory	
Crop Code								ZEAMX
BBCH Scale								BCOR
Crop Scientific Name								Zea mays
Crop Name								Corn
Rating Date				7-19-2010	7-19-2010	7-19-2010	7-19-2010	
Rating Type				CONTROL	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	BU
Number of Subsamples				1	1	1	1	1
Rating Timing				8 WEEK	8 WEEK	8 WEEK	8 WEEK	
Days After First/Last Applic.				80 56	80 56	80 56	80 56	
Plant-Eval Interval				81 DP-1	81 DP-1	81 DP-1	81 DP-1	
Days After Emergence				75 DE-	75 DE-	75 DE-	75 DE-	
ARM Action Codes				P	P	P	P	TY1
Number of Decimals				0	0	0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	12	13	14	15	19
1	REALM Q	4	OZ/A	V3	89	92	99	92	162
	COC	1	PT/A	V3					
	AMS	3.7	% V/V	V3					
2	CINCH ATZ	1	QT/A	PRE	99	93	99	90	163
	REALM Q	4	OZ/A	V3					
	COC	1	PT/A	V3					
	AMS	3.7	% V/V	V3					
3	REALM Q	4	OZ/A	V3	95	88	99	92	169
	ABUNDIT	32	FL OZ/A	V3					
	AMS	3.7	% V/V	V3					
4	REALM Q	4	OZ/A	V3	91	83	99	89	144
	IGNITE 280	22	FL OZ/A	V3					
	AMS	3.7	% V/V	V3					
5	REALM Q	4	OZ/A	V3	90	95	99	92	156
	AATREX	1	LB AI/A	V3					
	COC	1	PT/A	V3					
	AMS	3.7	% V/V	V3					
6	PREQUEL	1.66	OZ/A	PRE	99	98	99	91	150
	REALM Q	4	OZ/A	V3					
	AATREX	1	LB AI/A	V3					
	COC	1	PT/A	V3					
	AMS	3.7	% V/V	V3					
7	STEADFAST Q	1.5	OZ/A	V3	89	94	99	92	147
	MESOTRIONE	1.25	OZ AI/A	V3					
	COC	1	PT/A	V3					
	AMS	3.7	% V/V	V3					

Plant and Soil Science, U of KY
Weed Science Research

Pest Type			W Weed	W Weed	W Weed	W Weed	
Pest Code			SETFA	AMBTR	CHEAL	IPOSS	
Pest Scientific Name			Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.	
Pest Name			Giant foxtail	Giant ragweed	Common lambsquarters	Morning glory	
Crop Code							ZEAMX
BBCH Scale							BCOR
Crop Scientific Name							Zea mays
Crop Name							Corn
Rating Date			7-19-2010	7-19-2010	7-19-2010	7-19-2010	
Rating Type			CONTROL	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit			PERCENT	PERCENT	PERCENT	PERCENT	BU
Number of Subsamples			1	1	1	1	1
Rating Timing			8 WEEK	8 WEEK	8 WEEK	8 WEEK	
Days After First/Last Applic.			80 56	80 56	80 56	80 56	
Plant-Eval Interval			81 DP-1	81 DP-1	81 DP-1	81 DP-1	
Days After Emergence			75 DE-	75 DE-	75 DE-	75 DE-	
ARM Action Codes			P	P	P	P	TY1
Number of Decimals			0	0	0	0	0
Trt No.	Treatment Name	Rate Unit	Growth Stage	12	13	14	15	19
8	CHECK UNTREATED			0	0	0	0	14
LSD (P=.05)				8.4	6.0	0.0	5.9	33.4
Standard Deviation				4.8	3.4	0.0	3.4	19.1
CV				5.91	4.23	0.0	4.2	13.81
Bartlett's X2				5.042	3.716	0.0	4.467	12.522
P(Bartlett's X2)				0.283	0.715	.	0.614	0.085
Replicate F				0.067	6.733	0.000	1.784	1.094
Replicate Prob(F)				0.9359	0.0089	1.0000	0.2040	0.3618
Treatment F				142.561	278.504	0.000	277.312	21.242
Treatment Prob(F)				0.0001	0.0001	1.0000	0.0001	0.0001

Plant and Soil Science, U of KY
Weed Science Research

CORN POSTEMERGENCE III

Trial ID: C10010 Protocol ID: DUPONT--USA-111-10-01
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: HELEN FLANIGAN

Pest Type
W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop
Pest Code
SETFA, Setaria faberi, = US
AMBTR, Ambrosia trifida, = US
CHEAL, Chenopodium album, = US
IPOSS, Ipomoea sp., = US
Crop Code
ZEAMX, BCOR, Zea mays, = US
Rating Type
YIELD = yield
Rating Unit
PERCENT = percent
BU = bushel
Plant-Eval Interval
40 DP-1 = 1 4-29-2010
54 DP-1 = 1 4-29-2010
81 DP-1 = 1 4-29-2010
ARM Action Codes
P = Rating scale of 0 to 100 (e.g. % control or injury)
TY1 = 4.093985*17*(100-18)/84.5

Plant and Soil Science, U of KY
Weed Science Research

CORN POSTEMERGENCE III

Trial ID: C10010 Protocol ID: DUPONT--USA-111-10-01
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: HELEN FLANIGAN

General Trial Information

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Investigator: Charles H. Slack

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 4-29-2010

Trial Location

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

Personnel

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Affiliation: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING
Location: LEXINGTON, KY
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu
Mobile No.: 859-227-3355
Investigator: Charles H. Slack
Affiliation: University of Kentucky
Location: Lexington, KY
Postal Code: 40546 **E-mail:** cslack@uky.edu

Other Personnel

Role	Name	Other
Research Analyst	Sara Carter	sara.carter@uky.edu

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC 62 54
BBCH Scale: BCOR **Planting Date:** 4-29-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 55 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-5-2010
Harvest Date: 9-17-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 38 FT
% Standard Moisture: 15.5

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Pest Description

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

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

Pest 3 Type: W **Code:** CHEAL Chenopodium album
Common Name: Common lambsquarters

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

Site and Design

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

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.6 **Texture:** SIL silt loam
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY SILT LOAM
% Clay: 32 **CEC:** 17 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

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

Application Description

	A	B
Application Date:	4-30-2010	5-24-2010
Time of Day:	10 AM	3 PM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	V3
Application Placement:	BROSOI	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	74 F	82 F
% Relative Humidity:	41	47
Wind Velocity, Unit:	10 MPH	8 MPH
Wind Direction:	SW	ENE
Soil Temperature, Unit:	58 F	69 F
Soil Moisture:	GOOD	GOOD
% Cloud Cover:	10	20
Next Rain Occurred On:	5-1-2010	5-30-2010

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		V3
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
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W
Height, Unit:		3 IN
Pest 3 Code, Type, Scale:	CHEAL W	CHEAL W
Height, Unit:		2 IN
Pest 4 Code, Type, Scale:	IPOSS W	IPOSS W
Height, Unit:		1 IN

Application Equipment

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

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CORN POSTEMERGENCE IV

Trial ID: C10011 Protocol ID: FMC-FLUTCORN
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: JOSEPH REED

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9	10	11
	Pest Type					W Weed	W Weed	W Weed	W Weed		W Weed	W Weed	W Weed	W Weed	
	Pest Code					SETFA	AMBTR	CHEAL	IPOSS		SETFA	AMBTR	CHEAL	IPOSS	
	Pest Scientific Name					Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.		Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.	
	Pest Name					Giant foxtail	Giant ragweed	Common lambsquarters	Morning glory		Giant foxtail	Giant ragweed	Common lambsquarters	Morning glory	
	Crop Code				ZEAMX					ZEAMX					ZEAMX
	BBCH Scale				BCOR					BCOR					BCOR
	Crop Scientific Name				Zea mays					Zea mays					Zea mays
	Crop Name				Corn					Corn					Corn
	Rating Type				INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
	Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	Number of Subsamples				1	1	1	1	1	1	1	1	1	1	1
	Rating Timing				2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK
	ARM Action Codes				P	P	P	P	P	P	P	P	P	P	P
	Number of Decimals				0	0	0	0	0	0	0	0	0	0	0
1	AUTHORITY MTZ	5.5	OZ/A	PRE	5	93	99	99	99	5	89	92	99	96	0
	CADET	0.5	OZ/A	12 C											
	IGNITE 280	22	OZ/A	12 C											
	AATREX	32	OZ/A	12 C											
	COC	1	% V/V	12 C											
2	AUTHORITY MTZ	5.5	OZ/A	PRE	5	99	99	99	99	3	93	91	99	93	0
	CADET	0.5	OZ/A	12 C											
	ROUNDUP WeatherMAX	24	OZ/A	12 C											
	AATREX	32	OZ/A	12 C											
	ACTIVATOR 90	0.25	% V/V	12 C											
3	AUTHORITY MTZ	5.5	OZ/A	PRE	18	99	77	98	96	5	95	63	98	93	0
	CADET	0.5	OZ/A	12 C											
	PROWL H20	2	PT/A	12 C											
	ACCENT	0.66	OZ/A	12 C											
	ACTIVATOR 90	0.25	% V/V	12 C											
4	BICEP II MAGNUM	1.6	QT/A	PRE	0	99	99	99	99	8	98	89	99	95	0
	CADET	0.5	OZ/A	12 C											
	ROUNDUP WeatherMAX	32	OZ/A	12 C											
	AATREX	24	OZ/A	12 C											
	ACTIVATOR 90	0.25	% V/V	12 C											
5	AUTHORITY MTZ	5.5	OZ/A	PRE	30	99	96	99	99	13	92	87	99	95	5
	CADET	0.5	OZ/A	12 C											
	ROUNDUP WeatherMAX	32	OZ/A	12 C											
	SENCOR	2	OZ/A	12 C											
	ACTIVATOR 90	0.25	% V/V	12 C											

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Weed Science Research

Pest Type				W Weed	W Weed	W Weed	W Weed		W Weed	W Weed	W Weed	W Weed	
Pest Code				SETFA	AMBTR	CHEAL	IPOSS		SETFA	AMBTR	CHEAL	IPOSS	
Pest Scientific Name				Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.		Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.	
Pest Name				Giant foxtail	Giant ragweed	Common lambsquarters	Morning glory		Giant foxtail	Giant ragweed	Common lambsquarters	Morning glory	
Crop Code			ZEAMX					ZEAMX					ZEAMX
BBCH Scale			BCOR					BCOR					BCOR
Crop Scientific Name			Zea mays					Zea mays					Zea mays
Crop Name			Corn					Corn					Corn
Rating Type			INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit			PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples			1	1	1	1	1	1	1	1	1	1	1
Rating Timing			2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK
ARM Action Codes			P	P	P	P	P	P	P	P	P	P	P
Number of Decimals			0	0	0	0	0	0	0	0	0	0	0
Trt No.	Treatment Name	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9	10	11
6	CHECK			0	0	0	0	0	0	0	0	0	0	0
LSD (P=.05)				2.1	3.9	6.0	1.7	3.9	13.4	6.4	11.5	1.7	3.7	3.7
Standard Deviation				1.2	2.1	3.3	0.9	2.1	7.4	3.5	6.3	0.9	2.1	2.0
CV				12.12	2.6	4.25	1.15	2.59	126.17	4.49	8.99	1.15	2.62	244.95
Bartlett's X2				0.0	0.0	0.021	0.0	0.0	3.631	1.591	4.917	0.0	0.998	0.0
P(Bartlett's X2)				.	.	0.884	.	.	0.304	0.81	0.296	.	0.91	.
Replicate F				1.000	1.000	0.457	1.000	1.000	0.077	0.634	3.490	1.000	14.921	1.000
Replicate Prob(F)				0.4019	0.4019	0.6456	0.4019	0.4019	0.9265	0.5507	0.0708	0.4019	0.0010	0.4019
Treatment F				310.600	1066.600	419.643	5484.363	1076.800	1.154	359.274	97.668	5484.363	1053.228	3.000
Treatment Prob(F)				0.0001	0.0001	0.0001	0.0001	0.0001	0.3946	0.0001	0.0001	0.0001	0.0001	0.0656

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Pest Type				W Weed	W Weed	W Weed	W Weed		
Pest Code				SETFA	AMBTR	CHEAL	IPOSS		
Pest Scientific Name				Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.		
Pest Name				Giant foxtail	Giant ragweed	Common lambsquarters	Morning glory		
Crop Code									ZEAMX
BBCH Scale									BCOR
Crop Scientific Name									Zea mays
Crop Name									Corn
Rating Type				CONTROL	CONTROL	CONTROL	CONTROL		YIELD
Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT		BU
Number of Subsamples				1	1	1	1		1
Rating Timing				8 WEEK	8 WEEK	8 WEEK	8 WEEK		
ARM Action Codes				P	P	P	P		TY1
Number of Decimals				0	0	0	0		0
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	12	13	14	15		19
1	AUTHORITY MTZ	5.5	OZ/A	PRE	85	87	99	93		142
	CADET	0.5	OZ/A	12 C						
	IGNITE 280	22	OZ/A	12 C						
	AATREX	32	OZ/A	12 C						
	COC	1	% V/V	12 C						
2	AUTHORITY MTZ	5.5	OZ/A	PRE	93	86	99	91		147
	CADET	0.5	OZ/A	12 C						
	ROUNDUP WeatherMAX	24	OZ/A	12 C						
	AATREX	32	OZ/A	12 C						
	ACTIVATOR 90	0.25	% V/V	12 C						
3	AUTHORITY MTZ	5.5	OZ/A	PRE	92	60	98	86		73
	CADET	0.5	OZ/A	12 C						
	PROWL H20	2	PT/A	12 C						
	ACCENT	0.66	OZ/A	12 C						
	ACTIVATOR 90	0.25	% V/V	12 C						
4	BICEP II MAGNUM	1.6	QT/A	PRE	89	88	99	88		136
	CADET	0.5	OZ/A	12 C						
	ROUNDUP WeatherMAX	32	OZ/A	12 C						
	AATREX	24	OZ/A	12 C						
	ACTIVATOR 90	0.25	% V/V	12 C						
5	AUTHORITY MTZ	5.5	OZ/A	PRE	87	83	99	90		111
	CADET	0.5	OZ/A	12 C						
	ROUNDUP WeatherMAX	32	OZ/A	12 C						
	SENCOR	2	OZ/A	12 C						
	ACTIVATOR 90	0.25	% V/V	12 C						

Plant and Soil Science, U of KY
Weed Science Research

Pest Type			W Weed	W Weed	W Weed	W Weed	
Pest Code			SETFA	AMBTR	CHEAL	IPOSS	
Pest Scientific Name			Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.	
Pest Name			Giant foxtail	Giant ragweed	Common lambsquarters	Morning glory	
Crop Code							ZEAMX
BBCH Scale							BCOR
Crop Scientific Name							Zea mays
Crop Name							Corn
Rating Type			CONTROL	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit			PERCENT	PERCENT	PERCENT	PERCENT	BU
Number of Subsamples			1	1	1	1	1
Rating Timing			8 WEEK	8 WEEK	8 WEEK	8 WEEK	
ARM Action Codes			P	P	P	P	TY1
Number of Decimals			0	0	0	0	0
Trt No.	Treatment Name	Rate / Rate Unit / Growth Stage	12	13	14	15	19
6	CHECK		0	0	0	0	5
LSD (P=.05)			7.0	9.4	1.7	4.8	9.6
Standard Deviation			3.8	5.2	0.9	2.6	5.3
CV			5.17	7.67	1.15	3.5	5.16
Bartlett's X2			3.77	3.996	0.0	0.693	5.283
P(Bartlett's X2)			0.438	0.407	.	0.875	0.382
Replicate F			0.467	4.041	1.000	4.610	0.236
Replicate Prob(F)			0.6400	0.0517	0.4019	0.0381	0.7940
Treatment F			270.817	134.738	5484.363	589.717	327.556
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0001	0.0001

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CORN POSTEMERGENCE IV

Trial ID: C10011 Protocol ID: FMC-FLUTCORN
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: JOSEPH REED

Pest Type
W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop
Pest Code
SETFA, Setaria faberi, = US
AMBTR, Ambrosia trifida, = US
CHEAL, Chenopodium album, = US
IPOSS, Ipomoea sp., = US
Crop Code
ZEAMX, BCOR, Zea mays, = US
Rating Type
YIELD = yield
Rating Unit
PERCENT = percent
BU = bushel
ARM Action Codes
P = Rating scale of 0 to 100 (e.g. % control or injury)
TY1 = 4.11821*17

Plant and Soil Science, U of KY
Weed Science Research

CORN POSTEMERGENCE IV

Trial ID: C10011 Protocol ID: FMC-FLUTCORN
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: JOSEPH REED

General Trial Information

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Investigator: Charles H. Slack

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 4-29-2010

Trial Location

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

Personnel

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Affiliation: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING
Location: LEXINGTON, KY
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu
Mobile No.: 859-227-3355
Investigator: Charles H. Slack
Affiliation: University of Kentucky
Location: Lexington, KY
Postal Code: 40546 **E-mail:** cslack@uky.edu

Other Personnel

Role	Name	Other
Research Analyst	Sara Carter	sara.carter@uky.edu

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: W7642 PP
BBCH Scale: BCOR **Planting Date:** 4-29-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 55 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-7-2010
Harvest Date: 9-17-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 38 FT
% Standard Moisture: 15.5

Plant and Soil Science, U of KY
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Pest Description

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

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

Pest 3 Type: W **Code:** CHEAL Chenopodium album
Common Name: Common lambsquarters

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

Site and Design

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

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.6 **Texture:** SIL silt loam
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY SILT LOAM
% Clay: 32 **CEC:** 17 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

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

Application Description

	A	B
Application Date:	4-30-2010	5-28-2010
Time of Day:	10 AM	10 AM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	12C
Application Placement:	BROSOI	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	74 F	74 F
% Relative Humidity:	41	73
Wind Velocity, Unit:	10 MPH	6 MPH
Wind Direction:	SW	NW
Soil Temperature, Unit:	58 F	72 F
Soil Moisture:	GOOD	GOOD
% Cloud Cover:	10	30
Next Rain Occurred On:	5-1-2010	5-30-2010

Crop Stage At Each Application

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

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Pest Stage At Each Application

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

Application Equipment

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

Plant and Soil Science, U of KY
Weed Science Research

CORN POSTEMERGENCE V

Trial ID: C10012 Protocol ID: BAYER-HP010NARJJA
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: MARK WADINGTON

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9	10	11
Pest Type						W Weed	W Weed	W Weed	W Weed		W Weed	W Weed	W Weed	W Weed	
Pest Code						SETFA	AMBTR	CHEAL	IPOSS		SETFA	AMBTR	CHEAL	IPOSS	
Pest Scientific Name						Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.		Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.	
Pest Name						Giant foxtail	Giant ragweed	Common lambsquarters	Morning glory		Giant foxtail	Giant ragweed	Common lambsquarters	Morning glory	
Crop Code					ZEAMX					ZEAMX					ZEAMX
BBCH Scale					BCOR					BCOR					BCOR
Crop Scientific Name					Zea mays					Zea mays					Zea mays
Crop Name					Corn					Corn					Corn
Rating Type					INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit					PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples					1	1	1	1	1	1	1	1	1	1	1
Rating Timing					2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK
ARM Action Codes					P	P	P	P	P	P	P	P	P	P	P
Number of Decimals					0	0	0		0	0	0	0	0	0	0
1	CHECK UNTREATED				0	0	0	0.0	0	0	0	0	0	0	0
2	CORVUS HERBICIDE	5.6	OZ/A	PRE	5	99	93	99.0	99	0	95	86	99	93	0
	AATREX	3	PT/A	PRE											
3	BALANCE FLEXX HERBICIDE	6	OZ/A	PRE	5	96	83	99.0	91	0	87	73	99	82	0
	AATREX	3	PT/A	PRE											
4	INTEGRITY	16	OZ/A	PRE	5	99	82	99.0	98	0	93	68	99	91	0
	AATREX	3	PT/A	PRE											
5	LEXAR	3.5	QT/A	PRE	5	99	93	99.0	98	0	99	88	99	93	0
6	CORVUS HERBICIDE	5.6	OZ/A	V2	5	99	99	99.0	99	0	99	96	99	95	0
	AATREX	3	PT/A	V2											
7	BALANCE FLEXX HERBICIDE	6	OZ/A	V2	5	99	99	99.0	96	0	95	95	95	90	0
	AATREX	3	PT/A	V2											
8	ROUNDUP POWERMAX	22	OZ/A	V2	0	99	99	99.0	99	0	87	73	98	77	0
	AMS	3.7	% V/V	V2											
9	CAPRENO HERBICIDE	3	OZ/A	V2	5	99	93	99.0	99	0	96	85	99	92	0
	ROUNDUP POWERMAX	11	OZ/A	V2											
	AATREX	2	PT/A	V2											
	COC	0.5	% V/V	V2											
	AMS	3.7	% V/V	V2											
10	HALEX GT	3.6	PT/A	V2	0	99	95	99.0	96	0	99	90	99	93	0
	ACTIVATOR 90	0.25	% V/V	V2											
	AMS	3.7	% V/V	V2											
11	CAPRENO HERBICIDE	3	OZ/A	V2	0	99	95	99.0	98	0	96	87	99	93	0
	IGNITE 280	22	OZ/A	V2											
	AATREX	2	PT/A	V2											
	AMS	3.7	% V/V	V2											
12	CAPRENO HERBICIDE	3	OZ/A	V2	5	99	95	99.0	99	0	93	88	99	93	0
	AATREX	2	PT/A	V2											
	COC	1	% V/V	V2											
	AMS	3.7	% V/V	V2											

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Weed Science Research

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9	10	11
	Pest Type					W Weed	W Weed	W Weed	W Weed		W Weed	W Weed	W Weed	W Weed	
	Pest Code					SETFA	AMBTR	CHEAL	IPOSS		SETFA	AMBTR	CHEAL	IPOSS	
	Pest Scientific Name					Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.		Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.	
	Pest Name					Giant foxtail	Giant ragweed	Common lambsquarters	Morning glory		Giant foxtail	Giant ragweed	Common lambsquarters	Morning glory	
	Crop Code				ZEAMX					ZEAMX					ZEAMX
	BBCH Scale				BCOR					BCOR					BCOR
	Crop Scientific Name				Zea mays					Zea mays					Zea mays
	Crop Name				Corn					Corn					Corn
	Rating Type				INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
	Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	Number of Subsamples				1	1	1	1	1	1	1	1	1	1	1
	Rating Timing				2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK
	ARM Action Codes				P	P	P	P	P	P	P	P	P	P	P
	Number of Decimals				0	0	0		0	0	0	0	0	0	0
13	CORVUS HERBICIDE	3	OZ/A	PRE	10	99	99	99.0	99	0	99	95	99	96	0
	AATREX	1	PT/A	PRE											
	CAPRENO HERBICIDE	3	OZ/A	V4											
	AATREX	1	PT/A	V4											
	COC	0.5	% V/V	V4											
	ROUNDUP POWERMAX	11	OZ/A	V4											
14	CORVUS HERBICIDE	3	OZ/A	PRE	5	99	98	99.0	99	0	99	92	99	63	0
	AATREX	1	PT/A	PRE											
	CAPRENO HERBICIDE	2	OZ/A	V4											
	AATREX	1	PT/A	V4											
	COC	0.5	% V/V	V4											
	ROUNDUP POWERMAX	11	OZ/A	V4											
	LSD (P=.05)				0.0	2.3	5.2	0.00	5.0	0.0	5.5	7.8	3.1	24.5	0.0
	Standard Deviation				0.0	1.4	3.1	0.00	3.0	0.0	3.3	4.6	1.8	14.6	0.0
	CV				0.0	1.51	3.56	0.0	3.26	0.0	3.7	5.81	2.0	17.78	0.0
	Bartlett's X2				0.0	0.0	4.118	0.0	4.598	0.0	2.303	7.551	1.74	41.694	0.0
	P(Bartlett's X2)				.	.	0.846	.	0.467	.	0.941	0.753	0.187	0.001*	.
	Replicate F				0.000	1.000	2.710	0.000	0.737	0.000	3.420	2.305	0.662	1.184	0.000
	Replicate Prob(F)				1.0000	0.3816	0.0853	1.0000	0.4885	1.0000	0.0480	0.1198	0.5241	0.3220	1.0000
	Treatment F				0.000	1084.923	205.384	0.000	234.742	0.000	186.802	83.687	624.384	8.992	0.000
	Treatment Prob(F)				1.0000	0.0001	0.0001	1.0000	0.0001	1.0000	0.0001	0.0001	0.0001	0.0001	1.0000

Plant and Soil Science, U of KY
Weed Science Research

Pest Type				W Weed	W Weed	W Weed	W Weed		
Pest Code				SETFA	AMBTR	CHEAL	IPOSS		
Pest Scientific Name				Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.		
Pest Name				Giant foxtail	Giant ragweed	Common lambsquarters	Morning glory		
Crop Code									ZEAMX
BBCH Scale									BCOR
Crop Scientific Name									Zea mays
Crop Name									Corn
Rating Type				CONTROL	CONTROL	CONTROL	CONTROL		YIELD
Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT		BU
Number of Subsamples				1	1	1	1		1
Rating Timing				8 WEEK	8 WEEK	8 WEEK	8 WEEK		
ARM Action Codes				P	P	P	P		TY1
Number of Decimals				0	0	0	0		0
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	12	13	14	15	19	
1	CHECK UNTREATED				0	0	0	0	16	
2	CORVUS HERBICIDE	5.6	OZ/A	PRE	95	83	99	89	160	
	AATREX	3	PT/A	PRE						
3	BALANCE FLEXX HERBICIDE	6	OZ/A	PRE	83	70	99	80	116	
	AATREX	3	PT/A	PRE						
4	INTEGRITY	16	OZ/A	PRE	93	50	99	85	77	
	AATREX	3	PT/A	PRE						
5	LEXAR	3.5	QT/A	PRE	99	77	99	86	146	
6	CORVUS HERBICIDE	5.6	OZ/A	V2	99	95	99	90	162	
	AATREX	3	PT/A	V2						
7	BALANCE FLEXX HERBICIDE	6	OZ/A	V2	95	91	95	87	151	
	AATREX	3	PT/A	V2						
8	ROUNDUP POWERMAX	22	OZ/A	V2	83	67	98	67	93	
	AMS	3.7	% V/V	V2						
9	CAPRENO HERBICIDE	3	OZ/A	V2	96	82	99	87	137	
	ROUNDUP POWERMAX	11	OZ/A	V2						
	AATREX	2	PT/A	V2						
	COC	0.5	% V/V	V2						
	AMS	3.7	% V/V	V2						
10	HALEX GT	3.6	PT/A	V2	99	88	99	88	137	
	ACTIVATOR 90	0.25	% V/V	V2						
	AMS	3.7	% V/V	V2						
11	CAPRENO HERBICIDE	3	OZ/A	V2	96	80	99	89	134	
	IGNITE 280	22	OZ/A	V2						
	AATREX	2	PT/A	V2						
	AMS	3.7	% V/V	V2						
12	CAPRENO HERBICIDE	3	OZ/A	V2	93	81	99	89	138	
	AATREX	2	PT/A	V2						
	COC	1	% V/V	V2						
	AMS	3.7	% V/V	V2						

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Weed Science Research

Pest Type			W Weed	W Weed	W Weed	W Weed		
Pest Code			SETFA	AMBTR	CHEAL	IPOSS		
Pest Scientific Name			Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.		
Pest Name			Giant foxtail	Giant ragweed	Common lambsquarters	Morning glory		
Crop Code								ZEAMX
BBCH Scale								BCOR
Crop Scientific Name								Zea mays
Crop Name								Corn
Rating Type			CONTROL	CONTROL	CONTROL	CONTROL		YIELD
Rating Unit			PERCENT	PERCENT	PERCENT	PERCENT		BU
Number of Subsamples			1	1	1	1		1
Rating Timing			8 WEEK	8 WEEK	8 WEEK	8 WEEK		
ARM Action Codes			P	P	P	P		TY1
Number of Decimals			0	0	0	0		0
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	12	13	14	15	19
13	CORVUS HERBICIDE	3	OZ/A	PRE	99	93	99	92	140
	AATREX	1	PT/A	PRE					
	CAPRENO HERBICIDE	3	OZ/A	V4					
	AATREX	1	PT/A	V4					
	COC	0.5	% V/V	V4					
	ROUNDUP POWERMAX	11	OZ/A	V4					
14	CORVUS HERBICIDE	3	OZ/A	PRE	99	89	99	89	142
	AATREX	1	PT/A	PRE					
	CAPRENO HERBICIDE	2	OZ/A	V4					
	AATREX	1	PT/A	V4					
	COC	0.5	% V/V	V4					
	ROUNDUP POWERMAX	11	OZ/A	V4					
LSD (P=.05)					8.3	9.5	3.1	6.8	26.2
Standard Deviation					5.0	5.7	1.8	4.0	15.6
CV					5.64	7.58	2.0	5.06	12.47
Bartlett's X2					8.382	10.571	1.74	17.425	19.661
P(Bartlett's X2)					0.30	0.392	0.187	0.096	0.104
Replicate F					2.270	7.631	0.662	0.685	7.956
Replicate Prob(F)					0.1235	0.0025	0.5241	0.5128	0.0020
Treatment F					81.450	56.604	624.384	104.035	19.099
Treatment Prob(F)					0.0001	0.0001	0.0001	0.0001	0.0001

Plant and Soil Science, U of KY
Weed Science Research

CORN POSTEMERGENCE V

Trial ID: C10012
Location: LEXINGTON, KY
Project ID:

Protocol ID: BAYER-HP010NARJJA
Study Director: CHARLES H. SLACK
Investigator: Charles H Slack
Sponsor Contact: MARK WADINGTON

Pest Type
W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop
Pest Code
SETFA, Setaria faberi, = US
AMBTR, Ambrosia trifida, = US
CHEAL, Chenopodium album, = US
IPOSS, Ipomoea sp., = US
Crop Code
ZEAMX, BCOR, Zea mays, = US
Rating Type
YIELD = yield
Rating Unit
PERCENT = percent
BU = bushel
ARM Action Codes
P = Rating scale of 0 to 100 (e.g. % control or injury)
TY1 = 4.11821*17

Plant and Soil Science, U of KY
Weed Science Research

CORN POSTEMERGENCE V

Trial ID: C10012 Protocol ID: BAYER-HP010NARJJA
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: MARK WADINGTON

General Trial Information

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Investigator: Charles H. Slack

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 4-29-2010

Trial Location

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

Personnel

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Affiliation: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING
Location: LEXINGTON, KY
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu
Mobile No.: 859-227-3355
Investigator: Charles H. Slack
Affiliation: University of Kentucky
Location: Lexington, KY
Postal Code: 40546 **E-mail:** cslack@uky.edu

Other Personnel

Role	Name	Other
Research Analyst	Sara Carter	sara.carter@uky.edu

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: W7642 PP
BBCH Scale: BCOR **Planting Date:** 4-29-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 55 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-7-2010
Harvest Date: 9-17-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 38 FT
% Standard Moisture: 15.5

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Weed Science Research

Pest Description

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

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

Pest 3 Type: W **Code:** CHEAL Chenopodium album
Common Name: Common lambsquarters

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

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD field
Plot Length, Unit: 44 FT
Plot Area, Unit: 440 FT2 **Tillage Type:** CONTIL conventional-till
Replications: 3 **Study Design:** 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:** 17 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

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

Application Description

	A	B	C
Application Date:	4-30-2010	5-20-2010	5-26-2010
Time of Day:	10 AM	10 AM	3 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:	74 F	65 F	83 F
% Relative Humidity:	41	68	46
Wind Velocity, Unit:	10 MPH	6 MPH	7 MPH
Wind Direction:	SW	ESE	NNW
Soil Temperature, Unit:	58 F	61 F	72 F
Soil Moisture:	GOOD	EXCELL	GOOD
% Cloud Cover:	10	20	10
Next Rain Occurred On:	5-1-2010	5-21-2010	5-30-2010

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Height, Unit:		10 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
Height, Unit:		2 IN	3 IN
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W
Height, Unit:		4 IN	5 IN
Pest 3 Code, Type, Scale:	CHEAL W	CHEAL W	CHEAL W
Height, Unit:		2 IN	3 IN
Pest 4 Code, Type, Scale:	IPOSS W	IPOSS W	IPOSS W
Height, Unit:		1 IN	2 IN

Application Equipment

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

Plant and Soil Science, U of KY
Weed Science Research

CORN POSTEMERGENCE VI

Trial ID: C10014 Protocol ID: BAYER-HP10NARDL1
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: MARK WADINGTON

Pest Type				W Weed	W Weed	W Weed	W Weed		W Weed	W Weed	W Weed	W Weed
Pest Code				SETFA	AMBTR	CHEAL	IPOSS		SETFA	AMBTR	CHEAL	IPOSS
Pest Scientific Name				Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.		Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.
Pest Name				Giant foxtail	Giant ragweed	Common lambsquarters	Morning glory		Giant foxtail	Giant ragweed	Common lambsquarters	Morning glory
Crop Code			ZEAMX					ZEAMX				
BBCH Scale			BCOR					BCOR				
Crop Scientific Name			Zea mays					Zea mays				
Crop Name			Corn					Corn				
Rating Date			6-8-2010	6-8-2010	6-8-2010	6-8-2010	6-8-2010	6-22-2010	6-22-2010	6-22-2010	6-22-2010	6-22-2010
Rating Type			INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit			PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples			1	1	1	1	1	1	1	1	1	1
Rating Timing			2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.			14 14	14 14	14 14	14 14	14 14	28 28	28 28	28 28	28 28	28 28
Trt-Eval Interval			14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A
Plant-Eval Interval			40 DP-1	40 DP-1	40 DP-1	40 DP-1	40 DP-1	54 DP-1	54 DP-1	54 DP-1	54 DP-1	54 DP-1
Days After Emergence			32 DE-	32 DE-	32 DE-	32 DE-	32 DE-	46 DE-	46 DE-	46 DE-	46 DE-	46 DE-
ARM Action Codes			P	P	P	P	P	P	P	P	P	P
Number of Decimals			0	0	0	0	0		0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9	10
1	CHECK UNTREATED				0	0	0	0	0	0.0	0	0	0	0
2	CAPRENO HERBICIDE	3	OZ/A	LMP	5	99	96	99	99	0.0	96	88	99	99
	AATREX	1	PT/A	LMP										
	HERBIMAX	1	% V/V	LMP										
	AMS	3.7	% V/V	LMP										
3	HALEX GT	3.6	PT/A	LMP	0	99	99	99	99	0.0	99	94	99	95
	ACTIVATOR 90	0.25	% V/V	LMP										
	AMS	3.7	% V/V	LMP										
4	CAPRENO HERBICIDE	3	OZ/A	LMP	13	99	99	99	99	3.0	96	90	99	96
	AATREX	1	PT/A	LMP										
	ROUNDUP POWERMAX	22	OZ/A	LMP										
	SUPERB HC	0.5	% V/V	LMP										
	AMS	3.7	% V/V	LMP										
5	CAPRENO HERBICIDE	3	OZ/A	LMP	10	99	96	99	98	0.0	99	91	99	89
	AATREX	1	PT/A	LMP										
	HERBIMAX	1	% V/V	LMP										
	WEATHER GUARD COMPLETE	2	QT/100 GAL	LMP										
6	CAPRENO HERBICIDE	3	OZ/A	LMP	10	99	96	99	99	0.0	96	88	99	92
	AATREX	1	PT/A	LMP										
	SUPERB HC	0.5	% V/V	LMP										
	CLASS ACT NG	5	QT/100 GAL	LMP										
	INTERLOCK	4	OZ/A	LMP										
7	CAPRENO HERBICIDE	3	OZ/A	LMP	10	99	98	99	99	0.0	90	89	99	95
	AATREX	1	PT/A	LMP										
	COC	2	QT/100 GAL	LMP										
	HEL-FIRE	1	QT/100 GAL	LMP										
	GROUNDED	1	GAL/100 GAL	LMP										

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Pest Type				W Weed	W Weed	W Weed	W Weed		W Weed	W Weed	W Weed	W Weed	
Pest Code				SETFA	AMBTR	CHEAL	IPOSS		SETFA	AMBTR	CHEAL	IPOSS	
Pest Scientific Name				Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.		Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.	
Pest Name				Giant foxtail	Giant ragweed	Common lambsquarters	Morning glory		Giant foxtail	Giant ragweed	Common lambsquarters	Morning glory	
Crop Code				ZEAMX				ZEAMX					
BBCH Scale				BCOR				BCOR					
Crop Scientific Name				Zea mays				Zea mays					
Crop Name				Corn				Corn					
Rating Date				6-8-2010	6-8-2010	6-8-2010	6-8-2010	6-22-2010	6-22-2010	6-22-2010	6-22-2010	6-22-2010	
Rating Type				INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	
Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
Number of Subsamples				1	1	1	1	1	1	1	1	1	
Rating Timing				2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 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	28 28	28 28	
Trt-Eval Interval				14 DA-A	14 DA-A	14 DA-A	14 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A	
Plant-Eval Interval				40 DP-1	40 DP-1	40 DP-1	40 DP-1	54 DP-1	54 DP-1	54 DP-1	54 DP-1	54 DP-1	
Days After Emergence				32 DE-	32 DE-	32 DE-	32 DE-	46 DE-	46 DE-	46 DE-	46 DE-	46 DE-	
ARM Action Codes				P	P	P	P	P	P	P	P	P	
Number of Decimals				0	0	0	0		0	0	0	0	

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9	10
8	CAPRENO HERBICIDE	3	OZ/A	LMP	10	99	98	99	99	0.0	93	91	99	96
	AATREX	1	PT/A	LMP										
	COC	1.5	PT/A	LMP										
	ARRAY	9	LB/100 GAL	LMP										
9	CAPRENO HERBICIDE	3	OZ/A	LMP	10	99	98	99	99	0.0	99	88	99	95
	AATREX	1	PT/A	LMP										
	TROPHY GOLD	1	QT/100 GAL	LMP										
	GARDIAN PLUS	2	QT/100 GAL	LMP										
10	CAPRENO HERBICIDE	3	OZ/A	LMP	10	99	95	99	99	0.0	90	88	99	98
	AATREX	1	PT/A	LMP										
	COC	1	% V/V	LMP										
	DOUBLEDOWN	2.5	GAL/100 GAL	LMP										
11	CAPRENO HERBICIDE	3	OZ/A	LMP	10	99	98	99	98	0.0	96	90	99	93
	AATREX	1	PT/A	LMP										
	COC	0.375	% V/V	LMP										
	BORDER XTRA 8L	2.5	GAL/100 GAL	LMP										
12	CAPRENO HERBICIDE	3	OZ/A	LMP	10	99	95	99	98	0.0	96	93	99	98
	AATREX	1	PT/A	LMP										
	COC	1.5	PT/A	LMP										
	BRONC MAX E.D.T.	2	QT/100 GAL	LMP										
LSD (P=.05)					1.4	0.0	5.3	0.0	2.0	2.54	6.2	10.4	0.0	5.2
Standard Deviation					0.8	0.0	3.1	0.0	1.2	1.50	3.7	6.1	0.0	3.1
CV					10.17	0.0	3.5	0.0	1.28	600.0	4.17	7.45	0.0	3.5
Bartlett's X2					0.0	0.0	5.765	0.0	0.0	0.0	0.422	5.077	0.0	6.798
P(Bartlett's X2)					.	.	0.674	.	.	.	0.995	0.886	.	0.559
Replicate F					1.000	0.000	1.344	0.000	1.000	1.000	0.019	3.109	0.000	7.148
Replicate Prob(F)					0.3840	1.0000	0.2814	1.0000	0.3840	0.3840	0.9815	0.0647	1.0000	0.0041
Treatment F					77.364	0.000	243.350	0.000	1825.006	1.000	172.886	53.988	0.000	244.595
Treatment Prob(F)					0.0001	1.0000	0.0001	1.0000	0.0001	0.4767	0.0001	0.0001	1.0000	0.0001

Plant and Soil Science, U of KY
Weed Science Research

Pest Type					W Weed		W Weed		W Weed		W Weed	
Pest Code					SETFA		AMBTR		CHEAL		IPOSS	
Pest Scientific Name					Setaria faberi		Ambrosia trifida		Chenopodium album		Ipomoea sp.	
Pest Name					Giant foxtail		Giant ragweed		Common lambsquarters		Morning glory	
Crop Code				ZEAMX								ZEAMX
BBCH Scale				BCOR								BCOR
Crop Scientific Name				Zea mays								Zea mays
Crop Name				Corn								Corn
Rating Date				7-20-2010	7-20-2010		7-20-2010		7-20-2010		7-20-2010	
Rating Type				INJURY	CONTROL		CONTROL		CONTROL		CONTROL	YIELD
Rating Unit				PERCENT	PERCENT		PERCENT		PERCENT		PERCENT	BU
Number of Subsamples				1	1		1		1		1	1
Rating Timing												
Days After First/Last Applic.				56 56	56 56		56 56		56 56		56 56	
Trt-Eval Interval				56 DA-A	56 DA-A		56 DA-A		56 DA-A		56 DA-A	
Plant-Eval Interval				82 DP-1	82 DP-1		82 DP-1		82 DP-1		82 DP-1	
Days After Emergence				74 DE-	74 DE-		74 DE-		74 DE-		74 DE-	
ARM Action Codes				P	P		P		P		P	TY1
Number of Decimals				0	0		0		0		0	0
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	11		12		13		14		15		19
1	CHECK UNTREATED				0		0		0		0		0		7
2	CAPRENO HERBICIDE	3	OZ/A	LMP	0		96		88		99		93		160
	AATREX	1	PT/A	LMP											
	HERBIMAX	1	% V/V	LMP											
	AMS	3.7	% V/V	LMP											
3	HALEX GT	3.6	PT/A	LMP	0		99		92		99		89		156
	ACTIVATOR 90	0.25	% V/V	LMP											
	AMS	3.7	% V/V	LMP											
4	CAPRENO HERBICIDE	3	OZ/A	LMP	0		96		88		99		90		161
	AATREX	1	PT/A	LMP											
	ROUNDUP POWERMAX	22	OZ/A	LMP											
	SUPERB HC	0.5	% V/V	LMP											
	AMS	3.7	% V/V	LMP											
5	CAPRENO HERBICIDE	3	OZ/A	LMP	0		99		90		99		89		163
	AATREX	1	PT/A	LMP											
	HERBIMAX	1	% V/V	LMP											
	WEATHER GUARD COMPLETE	2	QT/100 GAL	LMP											
6	CAPRENO HERBICIDE	3	OZ/A	LMP	0		96		90		99		90		154
	AATREX	1	PT/A	LMP											
	SUPERB HC	0.5	% V/V	LMP											
	CLASS ACT NG	5	QT/100 GAL	LMP											
	INTERLOCK	4	OZ/A	LMP											
7	CAPRENO HERBICIDE	3	OZ/A	LMP	0		90		87		99		90		155
	AATREX	1	PT/A	LMP											
	COC	2	QT/100 GAL	LMP											
	HEL-FIRE	1	QT/100 GAL	LMP											
	GROUNDED	1	GAL/100 GAL	LMP											

Plant and Soil Science, U of KY
Weed Science Research

Pest Type					W Weed	W Weed	W Weed	W Weed				
Pest Code					SETFA	AMBTR	CHEAL	IPOSS				
Pest Scientific Name					Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.				
Pest Name					Giant foxtail	Giant ragweed	Common lambsquarters	Morning glory				
Crop Code				ZEAMX					ZEAMX			
BBCH Scale				BCOR					BCOR			
Crop Scientific Name				Zea mays					Zea mays			
Crop Name				Corn					Corn			
Rating Date				7-20-2010	7-20-2010	7-20-2010	7-20-2010	7-20-2010				
Rating Type				INJURY	CONTROL	CONTROL	CONTROL	CONTROL	YIELD			
Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	BU			
Number of Subsamples				1	1	1	1	1	1			
Rating Timing												
Days After First/Last Applic.				56 56	56 56	56 56	56 56	56 56				
Trt-Eval Interval				56 DA-A	56 DA-A	56 DA-A	56 DA-A	56 DA-A				
Plant-Eval Interval				82 DP-1	82 DP-1	82 DP-1	82 DP-1	82 DP-1				
Days After Emergence				74 DE-	74 DE-	74 DE-	74 DE-	74 DE-				
ARM Action Codes				P	P	P	P	P	TY1			
Number of Decimals				0	0	0	0	0	0			
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	11	12	13	14	15	19		
8	CAPRENO HERBICIDE	3	OZ/A	LMP	0	93	88	99	90	155		
	AATREX	1	PT/A	LMP								
	COC	1.5	PT/A	LMP								
	ARRAY	9	LB/100 GAL	LMP								
9	CAPRENO HERBICIDE	3	OZ/A	LMP	0	99	87	99	90	154		
	AATREX	1	PT/A	LMP								
	TROPHY GOLD	1	QT/100 GAL	LMP								
	GARDIAN PLUS	2	QT/100 GAL	LMP								
10	CAPRENO HERBICIDE	3	OZ/A	LMP	0	90	88	99	89	149		
	AATREX	1	PT/A	LMP								
	COC	1	% V/V	LMP								
	DOUBLEDOWN	2.5	GAL/100 GAL	LMP								
11	CAPRENO HERBICIDE	3	OZ/A	LMP	0	96	89	99	91	150		
	AATREX	1	PT/A	LMP								
	COC	0.375	% V/V	LMP								
	BORDER XTRA 8L	2.5	GAL/100 GAL	LMP								
12	CAPRENO HERBICIDE	3	OZ/A	LMP	0	96	90	99	90	151		
	AATREX	1	PT/A	LMP								
	COC	1.5	PT/A	LMP								
	BRONC MAX E.D.T.	2	QT/100 GAL	LMP								
LSD (P=.05)					0.0	6.1	8.9	0.0	3.8	16.0		
Standard Deviation					0.0	3.6	5.2	0.0	2.2	9.5		
CV					0.0	4.12	6.42	0.0	2.7	6.62		
Bartlett's X2					0.0	0.816	7.013	0.0	8.014	7.796		
P(Bartlett's X2)					.	0.976	0.724	.	0.155	0.731		
Replicate F					0.000	0.034	2.582	0.000	1.122	0.446		
Replicate Prob(F)					1.0000	0.9664	0.0984	1.0000	0.3436	0.6458		
Treatment F					0.000	177.637	72.333	0.000	408.440	61.847		
Treatment Prob(F)					1.0000	0.0001	0.0001	1.0000	0.0001	0.0001		

Plant and Soil Science, U of KY
Weed Science Research

CORN POSTEMERGENCE VI

Trial ID: C10014
Location: LEXINGTON, KY
Project ID:

Protocol ID: BAYER-HP10NARDL1
Study Director: CHARLES H. SLACK
Investigator: Charles H Slack
Sponsor Contact: MARK WADINGTON

Pest Type
W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop
Pest Code
SETFA, Setaria faberi, = US
AMBTR, Ambrosia trifida, = US
CHEAL, Chenopodium album, = US
IPOSS, Ipomoea sp., = US
Crop Code
ZEAMX, BCOR, Zea mays, = US
Rating Type
YIELD = yield
Rating Unit
PERCENT = percent
BU = bushel
Plant-Eval Interval
40 DP-1 = 1 4-29-2010
54 DP-1 = 1 4-29-2010
82 DP-1 = 1 4-29-2010
ARM Action Codes
P = Rating scale of 0 to 100 (e.g. % control or injury)
TY1 = 4.11821*17

Plant and Soil Science, U of KY
Weed Science Research

CORN POSTEMERGENCE VI

Trial ID: C10014 Protocol ID: BAYER-HP10NARDL1
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: MARK WADINGTON

General Trial Information

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Investigator: Charles H. Slack

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 4-29-2010

Trial Location

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

Personnel

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Affiliation: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING
Location: LEXINGTON, KY
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu
Mobile No.: 859-227-3355
Investigator: Charles H. Slack
Affiliation: University of Kentucky
Location: Lexington, KY
Postal Code: 40546 **E-mail:** cslack@uky.edu

Other Personnel

Role	Name	Other
Research Analyst	Sara Carter	sara.carter@uky.edu

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: W7642 PP
BBCH Scale: BCOR **Planting Date:** 4-29-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 55 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-7-2010
Harvest Date: 9-17-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 38 FT
% Standard Moisture: 15.5

Plant and Soil Science, U of KY
Weed Science Research

Pest Description

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

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

Pest 3 Type: W **Code:** CHEAL Chenopodium album
Common Name: Common lambsquarters

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

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD field
Plot Length, Unit: 44 FT
Plot Area, Unit: 440 FT2 **Tillage Type:** CONTIL conventional-till
Replications: 3 **Study Design:** 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:** 17 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

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

Application Description

	A
Application Date:	5-25-2010
Time of Day:	3 PM
Application Method:	SPRAY
Application Timing:	LMP
Application Placement:	BROFOL
Applied By:	C H SLACK
Air Temperature, Unit:	80 F
% Relative Humidity:	50
Wind Velocity, Unit:	7 MPH
Wind Direction:	SE
Soil Temperature, Unit:	70 F
Soil Moisture:	GOOD
% Cloud Cover:	10
Next Rain Occurred On:	5-30-2010

Crop Stage At Each Application

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

Pest Stage At Each Application

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

Application Equipment

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

Plant and Soil Science, U of KY
Weed Science Research

CORN POSTEMERGENCE VII

Trial ID: C10015 Protocol ID: BAYER-HP10NARDLZ
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: MARK WADINGTON

Pest Type			W Weed	W Weed	W Weed	W Weed		W Weed	W Weed	W Weed	W Weed
Pest Code			SETFA	AMBTR	CHEAL	IPOSS		SETFA	AMBTR	CHEAL	IPOSS
Pest Scientific Name			Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.		Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.
Pest Name			Giant foxtail	Giant ragweed	Common lambsquarters	Morning glory		Giant foxtail	Giant ragweed	Common lambsquarters	Morning glory
Crop Code		ZEAMX					ZEAMX				
BBCH Scale		BCOR					BCOR				
Crop Scientific Name		Zea mays					Zea mays				
Crop Name		Corn					Corn				
Description											
Rating Date		6-8-2010	6-8-2010	6-8-2010	6-8-2010	6-8-2010	6-22-2010	6-22-2010	6-22-2010	6-22-2010	6-22-2010
Rating Type		INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples		1	1	1	1	1	1	1	1	1	1
Rating Timing		2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.		14 14	14 14	14 14	14 14	14 14	28 28	28 28	28 28	28 28	28 28
Trt-Eval Interval		14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A
Plant-Eval Interval		40 DP-1	40 DP-1	40 DP-1	40 DP-1	40 DP-1	54 DP-1	54 DP-1	54 DP-1	54 DP-1	54 DP-1
Days After Emergence		32 DE-	32 DE-	32 DE-	32 DE-	32 DE-	46 DE-	46 DE-	46 DE-	46 DE-	46 DE-
ARM Action Codes		P	P	P	P	P	P	P	P	P	P
Number of Decimals		0	0	0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9	10
1	CHECK UNTREATED				0	0	0	0	0	0	0	0	0	0
2	LAUDIS	3	OZ/A	LMP	0	94	99	99	99	0	93	88	99	91
	AATREX	1	PT/A	LMP										
	MSO	1	% V/V	LMP										
	AMS	3.7	% V/V	LMP										
3	IMPACT	0.75	OZ/A	LMP	0	99	93	99	96	0	93	83	99	91
	AATREX	1	PT/A	LMP										
	MSO	1	% V/V	LMP										
	AMS	3.7	% V/V	LMP										
4	CAPRENO HERBICIDE	3	OZ/A	LMP	20	99	98	99	98	3	96	92	99	88
	AATREX	1	PT/A	LMP										
	COC	1	% V/V	LMP										
	AMS	3.7	% V/V	LMP										
5	LAUDIS	3	OZ/A	LMP	0	99	98	99	99	2	90	93	99	88
	AATREX	1	PT/A	LMP										
	MSO	1	% V/V	LMP										
	AMS	3.7	% V/V	LMP										
6	LAUDIS	3	OZ/A	LMP	0	98	99	99	99	0	95	93	99	91
	AATREX	1	PT/A	LMP										
	DESTINY HC	0.5	% V/V	LMP										
	CLASS ACT NG	5	QT/100 GAL	LMP										
	INTERLOCK	4	OZ/A	LMP										
7	LAUDIS	3	OZ/A	LMP	0	98	98	99	98	0	95	87	99	88
	AATREX	1	PT/A	LMP										
	DYNE-AMIC	2	QT/100 GAL	LMP										
	REQUEST	2	QT/100 GAL	LMP										
	GROUNDED	1	GAL/100 GAL	LMP										

Plant and Soil Science, U of KY
Weed Science Research

Pest Type				W Weed	W Weed	W Weed	W Weed		W Weed	W Weed	W Weed	W Weed
Pest Code				SETFA	AMBTR	CHEAL	IPOSS		SETFA	AMBTR	CHEAL	IPOSS
Pest Scientific Name				Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.		Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.
Pest Name				Giant foxtail	Giant ragweed	Common lambsquarters	Morning glory		Giant foxtail	Giant ragweed	Common lambsquarters	Morning glory
Crop Code				ZEAMX				ZEAMX				
BBCH Scale				BCOR				BCOR				
Crop Scientific Name				Zea mays				Zea mays				
Crop Name				Corn				Corn				
Description												
Rating Date				6-8-2010	6-8-2010	6-8-2010	6-8-2010	6-8-2010	6-22-2010	6-22-2010	6-22-2010	6-22-2010	6-22-2010
Rating Type				INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples				1	1	1	1	1	1	1	1	1	1
Rating Timing				2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.				14 14	14 14	14 14	14 14	14 14	28 28	28 28	28 28	28 28	28 28
Trt-Eval Interval				14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A
Plant-Eval Interval				40 DP-1	40 DP-1	40 DP-1	40 DP-1	40 DP-1	54 DP-1	54 DP-1	54 DP-1	54 DP-1	54 DP-1
Days After Emergence				32 DE-	32 DE-	32 DE-	32 DE-	32 DE-	46 DE-	46 DE-	46 DE-	46 DE-	46 DE-
ARM Action Codes				P	P	P	P	P	P	P	P	P	P
Number of Decimals				0	0	0	0	0	0	0	0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9	10
8	LAUDIS	3	OZ/A	LMP	20	99	99	99	99	5	93	92	99	90
	AATREX	1	PT/A	LMP										
	SUNDANCE II	1.5	PT/A	LMP										
	ARRAY	9	LB/100 GAL	LMP										
9	LAUDIS	3	OZ/A	LMP	0	99	99	99	99	0	96	90	99	90
	AATREX	1	PT/A	LMP										
	SOY-STIK	1.5	PT/A	LMP										
	GARDIAN PLUS	2	QT/100 GAL	LMP										
10	LAUDIS	3	OZ/A	LMP	20	98	99	99	99	5	94	93	99	93
	AATREX	1	PT/A	LMP										
	SUCCEED	1.5	PT/A	LMP										
	DOUBLEDOWN	2.5	GAL/100 GAL	LMP										
11	LAUDIS	3	OZ/A	LMP	0	98	98	98	96	0	87	90	98	88
	AATREX	1	PT/A	LMP										
	PERSIST ULTRA	1.5	PT/A	LMP										
	BORDER XTRA 8L	2.5	GAL/100 GAL	LMP										
12	LAUDIS	3	OZ/A	LMP	20	98	98	99	99	5	93	93	99	95
	AATREX	1	PT/A	LMP										
	SUPERSPREAD MSO	1.5	PT/A	LMP										
	BRONC MAX E.D.T.	2	QT/100 GAL	LMP										
LSD (P=.05)					0.0	4.0	2.7	1.1	2.1	1.9	8.5	5.5	1.1	4.7
Standard Deviation					0.0	2.3	1.6	0.7	1.3	1.2	5.0	3.2	0.7	2.8
CV					0.0	2.6	1.81	0.74	1.39	69.08	5.85	3.92	0.74	3.37
Bartlett's X2					0.0	7.087	0.169	0.0	0.0	0.0	4.192	3.759	0.0	2.114
P(Bartlett's X2)					.	0.214	0.999	.	.	.	0.839	0.958	.	0.977
Replicate F					0.000	5.898	2.289	1.000	2.538	1.571	1.219	3.497	1.000	4.881
Replicate Prob(F)					1.0000	0.0089	0.1250	0.3840	0.1019	0.2302	0.3147	0.0480	0.3840	0.0176
Treatment F					0.000	441.679	912.157	5500.563	1534.274	11.429	87.750	196.430	5500.563	262.963
Treatment Prob(F)					1.0000	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

Plant and Soil Science, U of KY
Weed Science Research

Pest Type						W Weed		W Weed		W Weed	W Weed	
Pest Code						SETFA		AMBTR		CHEAL	IPOSS	
Pest Scientific Name						Setaria faberi		Ambrosia trifida		Chenopodium album	Ipomoea sp.	
Pest Name						Giant foxtail		Giant ragweed		Common lambsquarters	Morning glory	
Crop Code					ZEAMX							ZEAMX
BBCH Scale					BCOR							BCOR
Crop Scientific Name					Zea mays							Zea mays
Crop Name					Corn							Corn
Description												15.5%
Rating Date					7-20-2010	7-20-2010		7-20-2010		7-20-2010	7-20-2010	
Rating Type					INJURY	CONTROL		CONTROL		CONTROL	CONTROL	YIELD
Rating Unit					PERCENT	PERCENT		PERCENT		PERCENT	PERCENT	BU
Number of Subsamples					1	1		1		1	1	1
Rating Timing					8 WEEK	8 WEEK		8 WEEK		8 WEEK	8 WEEK	
Days After First/Last Applic.					56 56	56 56		56 56		56 56	56 56	
Trt-Eval Interval					56 DA-A	56 DA-A		56 DA-A		56 DA-A	56 DA-A	
Plant-Eval Interval					82 DP-1	82 DP-1		82 DP-1		82 DP-1	82 DP-1	
Days After Emergence					74 DE-	74 DE-		74 DE-		74 DE-	74 DE-	
ARM Action Codes					P	P		P		P	P	TY1
Number of Decimals					0	0		0		0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	11	12		13		14	15	19
1	CHECK UNTREATED				0	0		0		0	0	10
2	LAUDIS	3	OZ/A	LMP	0	93		87		99	88	156
	AATREX	1	PT/A	LMP								
	MSO	1	% V/V	LMP								
	AMS	3.7	% V/V	LMP								
3	IMPACT	0.75	OZ/A	LMP	0	93		80		99	87	151
	AATREX	1	PT/A	LMP								
	MSO	1	% V/V	LMP								
	AMS	3.7	% V/V	LMP								
4	CAPRENO HERBICIDE	3	OZ/A	LMP	0	96		92		99	88	163
	AATREX	1	PT/A	LMP								
	COC	1	% V/V	LMP								
	AMS	3.7	% V/V	LMP								
5	LAUDIS	3	OZ/A	LMP	0	90		93		99	87	167
	AATREX	1	PT/A	LMP								
	MSO	1	% V/V	LMP								
	AMS	3.7	% V/V	LMP								
6	LAUDIS	3	OZ/A	LMP	0	92		91		99	89	160
	AATREX	1	PT/A	LMP								
	DESTINY HC	0.5	% V/V	LMP								
	CLASS ACT NG	5	QT/100 GAL	LMP								
	INTERLOCK	4	OZ/A	LMP								
7	LAUDIS	3	OZ/A	LMP	0	95		87		99	87	154
	AATREX	1	PT/A	LMP								
	DYNE-AMIC	2	QT/100 GAL	LMP								
	REQUEST	2	QT/100 GAL	LMP								
	GROUNDED	1	GAL/100 GAL	LMP								

Plant and Soil Science, U of KY
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Pest Type						W Weed	W Weed	W Weed	W Weed		
Pest Code						SETFA	AMBTR	CHEAL	IPOSS		
Pest Scientific Name						Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.		
Pest Name						Giant foxtail	Giant ragweed	Common lambsquarters	Morning glory		
Crop Code					ZEAMX						ZEAMX
BBCH Scale					BCOR						BCOR
Crop Scientific Name					Zea mays						Zea mays
Crop Name					Corn						Corn
Description											15.5%
Rating Date					7-20-2010	7-20-2010	7-20-2010	7-20-2010	7-20-2010		
Rating Type					INJURY	CONTROL	CONTROL	CONTROL	CONTROL		YIELD
Rating Unit					PERCENT	PERCENT	PERCENT	PERCENT	PERCENT		BU
Number of Subsamples					1	1	1	1	1		1
Rating Timing					8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK		
Days After First/Last Applic.					56 56	56 56	56 56	56 56	56 56		
Trt-Eval Interval					56 DA-A	56 DA-A	56 DA-A	56 DA-A	56 DA-A		
Plant-Eval Interval					82 DP-1	82 DP-1	82 DP-1	82 DP-1	82 DP-1		
Days After Emergence					74 DE-	74 DE-	74 DE-	74 DE-	74 DE-		
ARM Action Codes					P	P	P	P	P		TY1
Number of Decimals					0	0	0	0	0		0
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	11	12	13	14	15		19
8	LAUDIS	3	OZ/A	LMP	0	93	89	99	89		154
	AATREX	1	PT/A	LMP							
	SUNDANCE II	1.5	PT/A	LMP							
	ARRAY	9	LB/100 GAL	LMP							
9	LAUDIS	3	OZ/A	LMP	0	96	88	99	89		156
	AATREX	1	PT/A	LMP							
	SOY-STIK	1.5	PT/A	LMP							
	GARDIAN PLUS	2	QT/100 GAL	LMP							
10	LAUDIS	3	OZ/A	LMP	0	94	93	99	88		156
	AATREX	1	PT/A	LMP							
	SUCCEED	1.5	PT/A	LMP							
	DOUBLEDOWN	2.5	GAL/100 GAL	LMP							
11	LAUDIS	3	OZ/A	LMP	0	88	88	98	86		153
	AATREX	1	PT/A	LMP							
	PERSIST ULTRA	1.5	PT/A	LMP							
	BORDER XTRA 8L	2.5	GAL/100 GAL	LMP							
12	LAUDIS	3	OZ/A	LMP	0	90	93	99	90		155
	AATREX	1	PT/A	LMP							
	SUPERSPREAD MSO	1.5	PT/A	LMP							
	BRONC MAX E.D.T.	2	QT/100 GAL	LMP							
LSD (P=.05)					0.0	8.8	6.6	1.1	3.3		16.0
Standard Deviation					0.0	5.2	3.9	0.7	1.9		9.5
CV					0.0	6.13	4.8	0.74	2.39		6.54
Bartlett's X2					0.0	4.958	10.833	0.0	4.441		9.165
P(Bartlett's X2)					.	0.838	0.371	.	0.88		0.607
Replicate F					0.000	0.843	4.104	1.000	0.902		4.240
Replicate Prob(F)					1.0000	0.4440	0.0306	0.3840	0.4201		0.0277
Treatment F					0.000	79.744	131.845	5500.563	521.304		60.672
Treatment Prob(F)					1.0000	0.0001	0.0001	0.0001	0.0001		0.0001

Plant and Soil Science, U of KY
Weed Science Research

CORN POSTEMERGENCE VII

Trial ID: C10015
Location: LEXINGTON, KY
Project ID:

Protocol ID: BAYER-HP10NARDLZ
Study Director: CHARLES H. SLACK
Investigator: Charles H Slack
Sponsor Contact: MARK WADINGTON

Pest Type
W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop
Pest Code
SETFA, Setaria faberi, = US
AMBTR, Ambrosia trifida, = US
CHEAL, Chenopodium album, = US
IPOSS, Ipomoea sp., = US
Crop Code
ZEAMX, BCOR, Zea mays, = US
Rating Type
YIELD = yield
Rating Unit
PERCENT = percent
BU = bushel
Plant-Eval Interval
40 DP-1 = 1 4-29-2010
54 DP-1 = 1 4-29-2010
82 DP-1 = 1 4-29-2010
ARM Action Codes
P = Rating scale of 0 to 100 (e.g. % control or injury)
TY1 = 4.11821*17

Plant and Soil Science, U of KY
Weed Science Research

CORN POSTEMERGENCE VII

Trial ID: C10015 Protocol ID: BAYER-HP10NARDLZ
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: MARK WADINGTON

General Trial Information

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Investigator: Charles H. Slack

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 4-29-2010

Trial Location

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

Personnel

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Affiliation: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING
Location: LEXINGTON, KY
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu
Mobile No.: 859-227-3355
Investigator: Charles H. Slack
Affiliation: University of Kentucky
Location: Lexington, KY
Postal Code: 40546 **E-mail:** cslack@uky.edu

Other Personnel

Role	Name	Other
Research Analyst	Sara Carter	sara.carter@uky.edu

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: W7642 PP
BBCH Scale: BCOR **Planting Date:** 4-29-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 55 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-7-2010
Harvest Date: 9-17-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 38 FT
% Standard Moisture: 15.5

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Pest Description

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

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

Pest 3 Type: W **Code:** CHEAL Chenopodium album
Common Name: Common lambsquarters

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

Site and Design

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

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.6 **Texture:** SIL silt loam
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY SILT LOAM
% Clay: 32 **CEC:** 17 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

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

Application Description

	A
Application Date:	5-25-2010
Time of Day:	3 PM
Application Method:	SPRAY
Application Timing:	LMP
Application Placement:	BANFOL
Applied By:	C H SLACK
Air Temperature, Unit:	80 F
% Relative Humidity:	50
Wind Velocity, Unit:	7 MPH
Wind Direction:	SE
Soil Temperature, Unit:	70
Soil Moisture:	GOOD
% Cloud Cover:	10
Next Rain Occurred On:	5-30-2010

Crop Stage At Each Application

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

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Pest Stage At Each Application

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

Application Equipment

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

Plant and Soil Science, U of KY
Weed Science Research

CORN POSTEMERGENCE VIII

Trial ID: C10016 Protocol ID: SYN-FDATO2A4-CORN
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: SCOTT CULLY

Crop Code					ZEAMX	ZEAMX	ZEAMX	
BBCH Scale					BCOR	BCOR	BCOR	
Crop Scientific Name					Zea mays	Zea mays	Zea mays	
Crop Name					Corn	Corn	Corn	
Rating Date							9-7-2010	
Rating Type					INJURY	INJURY	YIELD	
Rating Unit					PERCENT	PERCENT	BU	
Number of Subsamples					1	1	1	
Rating Timing					1 WEEK	2 WEEK		
Days After First/Last Applic.							97	97
Trt-Eval Interval							97 DA-A	
Plant-Eval Interval							123 DP-1	
Days After Emergence							115 DE	
ARM Action Codes					P	P	TY1	
Number of Decimals					0	0	0	
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	5	
1	CHECK UNTREATED				0	0	161	
2	QUADRIS	6	FL OZ/A	V5	0	0	164	
3	HALEX GT	3.6	PT/A	V5	0	0	170	
	AMS	3.7	% V/V	V5				
	NIS	0.25	% V/V	V5				
4	CALLISTO	3	FL OZ/A	V5	0	0	163	
	AMS	3.7	% V/V	V5				
	COC	1	% V/V	V5				
5	TOUCHDOWN TOTAL	24	FL OZ/A	V5	0	0	172	
	AMS	3.7	% V/V	V5				
6	QUADRIS	6	FL OZ/A	V5	0	0	176	
	HALEX GT	3.6	PT/A	V5				
	AMS	3.7	% V/V	V5				
	NIS	0.25	% V/V	V5				
7	QUADRIS	6	FL OZ/A	V5	0	0	170	
	CALLISTO	3	FL OZ/A	V5				
	AMS	3.7	% V/V	V5				
	COC	1	% V/V	V5				
8	QUADRIS	6	FL OZ/A	V5	0	0	180	
	TOUCHDOWN TOTAL	24	FL OZ/A	V5				
	AMS	3.7	% V/V	V5				
LSD (P=.05)					0.0	0.0	8.9	
Standard Deviation					0.0	0.0	6.1	
CV					0.0	0.0	3.59	
Bartlett's X2					0.0	0.0	13.738	
P(Bartlett's X2)					.	.	0.056	
Replicate F					0.000	0.000	3.253	
Replicate Prob(F)					1.0000	1.0000	0.0421	
Treatment F					0.000	0.000	4.763	
Treatment Prob(F)					1.0000	1.0000	0.0025	

Plant and Soil Science, U of KY
Weed Science Research

CORN POSTEMERGENCE VIII

Trial ID: C10016 Protocol ID: SYN-FDATO2A4-CORN
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: SCOTT CULLY

Crop Code
ZEAMX, BCOR, Zea mays, = US
Rating Type
YIELD = yield
Rating Unit
PERCENT = percent
BU = bushel
Plant-Eval Interval
123 DP-1 = 1 5-7-2010
ARM Action Codes
P = Rating scale of 0 to 100 (e.g. % control or injury)
TY1 = 5.761905*3*(100-4)/84.5

Plant and Soil Science, U of KY
Weed Science Research

CORN POSTEMERGENCE VIII

Trial ID: C10016 Protocol ID: SYN-FDATO2A4-CORN
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: SCOTT CULLY

General Trial Information

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Investigator: Charles H. Slack

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5-7-2010

Trial Location

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

Personnel

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Affiliation: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING
Location: LEXINGTON, KY
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu
Mobile No.: 859-227-3355
Investigator: Charles H. Slack
Affiliation: University of Kentucky
Location: Lexington, KY
Postal Code: 40546 **E-mail:** cslack@uky.edu

Other Personnel

Role	Name	Other
Research Analyst	Sara Carter	sara.carter@uky.edu

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC 62 54
BBCH Scale: BCOR **Planting Date:** 5-7-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 74 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-15-2010
Harvest Date: 9-14-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 27 FT
% Standard Moisture: 15.5

Site and Design

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

Plant and Soil Science, U of KY
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Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.6 **Texture:** SIL silt loam
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY SILT LOAM
% Clay: 32 **CEC:** 17 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

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

Application Description

	A
Application Date:	6-2-2010
Time of Day:	5 PM
Application Method:	SPRAY
Application Timing:	V5
Application Placement:	BROFOL
Applied By:	C H SLACK
Air Temperature, Unit:	88 F
% Relative Humidity:	50
Wind Velocity, Unit:	6 MPH
Wind Direction:	SW
Soil Temperature, Unit:	75 F
Soil Moisture:	GOOD
% Cloud Cover:	10
Next Rain Occurred On:	6-4-2010

Crop Stage At Each Application

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

Application Equipment

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

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CORN POSTEMERGENCE VARIETIES

Trial ID: C10020 Protocol ID: C10020
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: C10020 Investigator: Charles H Slack
Sponsor Contact:

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	7
	Crop Code				ZEAMX	ZEAMX	ZEAMX	ZEAMX
	BBCH Scale				BCOR	BCOR	BCOR	BCOR
	Crop Scientific Name				Zea mays	Zea mays	Zea mays	Zea mays
	Crop Name				Corn	Corn	Corn	Corn
	Rating Date				6-9-2010	6-16-2010	6-25-2010	9-8-2010
	Rating Type				INJURY	INJURY	SNAPPED	YIELD
	Rating Unit				PERCENT	PERCENT	PLANTS	BU
	Number of Subsamples				1	1	1	1
	Rating Timing				1 WEEK	2 WEEK		
	Days After First/Last Applic.				34 7	41 14	50 23	125 98
	Trt-Eval Interval						23 DA-A	
	Plant-Eval Interval				35 DP-1	42 DP-1	51 DP-1	126 DP-1
	Days After Emergence				29 DE-	36 DE-	45 DE-	120 DE
	ARM Action Codes				P		P	TY1
	Number of Decimals				0		0	0
1	SHARPEN	3	OZ/A	PRE	0	0.0	5	138
	DEGREE XTRA	3.5	QT/A	PRE				
	DKC 60-51							
2	ROUNDUP POWERMAX	22	OZ/A	V5	0	0.0	4	138
	HEADLINE	3	OZ/A	V5				
	DKC 60-51							
3	ROUNDUP POWERMAX	22	OZ/A	V5	0	0.0	5	131
	AMS	3.5	% V/V	V5				
	DKC 60-51							
4	SHARPEN	3	OZ/A	PRE	0	0.0	1	146
	DEGREE XTRA	3.5	QT/A	PRE				
	DKC 61-05							
5	ROUNDUP POWERMAX	22	OZ/A	V5	0	0.0	1	157
	HEADLINE	3	OZ/A	V5				
	DKC 61-05							
6	ROUNDUP POWERMAX	22	OZ/A	V5	0	0.0	1	148
	AMS	3.5	% V/V	V5				
	DKC 61-05							
7	SHARPEN	3	OZ/A	PRE	0	0.0	3	145
	DEGREE XTRA	3.5	QT/A	PRE				
	DKC 61-35							
8	ROUNDUP POWERMAX	22	OZ/A	V5	0	0.0	3	146
	HEADLINE	3	OZ/A	V5				
	DKC 61-35							
9	ROUNDUP POWERMAX	22	OZ/A	V5	0	0.0	2	137
	AMS	3.5	% V/V	V5				
	DKC 61-35							
10	SHARPEN	3	OZ/A	PRE	0	0.0	4	153
	DEGREE XTRA	3.5	QT/A	PRE				
	DKC 61-49							
11	ROUNDUP POWERMAX	22	OZ/A	V5	0	0.0	7	147
	HEADLINE	3	OZ/A	V5				
	DKC 61-49							

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Crop Code			ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale			BCOR	BCOR	BCOR	BCOR
Crop Scientific Name			Zea mays	Zea mays	Zea mays	Zea mays
Crop Name			Corn	Corn	Corn	Corn
Rating Date			6-9-2010	6-16-2010	6-25-2010	9-8-2010
Rating Type			INJURY	INJURY	SNAPPED	YIELD
Rating Unit			PERCENT	PERCENT	PLANTS	BU
Number of Subsamples			1	1	1	1
Rating Timing			1 WEEK	2 WEEK		
Days After First/Last Applic.			34 7	41 14	50 23	125 98
Trt-Eval Interval					23 DA-A	
Plant-Eval Interval			35 DP-1	42 DP-1	51 DP-1	126 DP-1
Days After Emergence			29 DE-	36 DE-	45 DE-	120 DE
ARM Action Codes			P		P	TY1
Number of Decimals			0		0	0
Trt No. Treatment Name	Rate Rate Unit	Growth Stage	1	2	3	7
12 ROUNDUP POWERMAX	22 OZ/A	V5	0	0.0	7	148
AMS	3.5 % V/V	V5				
DKC 61-49						
13 SHARPEN	3 OZ/A	PRE	0	0.0	11	140
DEGREE XTRA	3.5 QT/A	PRE				
DKC 61-69						
14 ROUNDUP POWERMAX	22 OZ/A	V5	0	0.0	10	148
HEADLINE	3 OZ/A	V5				
DKC 61-69						
15 ROUNDUP POWERMAX	22 OZ/A	V5	0	0.0	12	138
AMS	3.5 % V/V	V5				
DKC 61-69						
16 SHARPEN	3 OZ/A	PRE	0	0.0	11	144
DEGREE XTRA	3.5 QT/A	PRE				
P 1184						
17 ROUNDUP POWERMAX	22 OZ/A	V5	0	0.0	13	140
HEADLINE	3 OZ/A	V5				
P 1184						
18 ROUNDUP POWERMAX	22 OZ/A	V5	0	0.0	11	146
AMS	3.5 % V/V	V5				
P 1184						
19 SHARPEN	3 OZ/A	PRE	0	0.0	3	150
DEGREE XTRA	3.5 QT/A	PRE				
DKC 62-54						
20 ROUNDUP POWERMAX	22 OZ/A	V5	0	0.0	3	155
HEADLINE	3 OZ/A	V5				
DKC 62-54						
21 ROUNDUP POWERMAX	22 OZ/A	V5	0	0.0	3	148
AMS	3.5 % V/V	V5				
DKC 62-54						
22 SHARPEN	3 OZ/A	PRE	0	0.0	7	135
DEGREE XTRA	3.5 QT/A	PRE				
DKC 62-97						
23 ROUNDUP POWERMAX	22 OZ/A	V5	0	0.0	9	142
HEADLINE	3 OZ/A	V5				
DKC 62-97						
24 ROUNDUP POWERMAX	22 OZ/A	V5	0	0.0	6	145
AMS	3.5 % V/V	V5				
DKC 62-97						

Plant and Soil Science, U of KY
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Crop Code				ZEAMX	ZEAMX	ZEAMX	ZEAMX	
BBCH Scale				BCOR	BCOR	BCOR	BCOR	
Crop Scientific Name				Zea mays	Zea mays	Zea mays	Zea mays	
Crop Name				Corn	Corn	Corn	Corn	
Rating Date				6-9-2010	6-16-2010	6-25-2010	9-8-2010	
Rating Type				INJURY	INJURY	SNAPPED	YIELD	
Rating Unit				PERCENT	PERCENT	PLANTS	BU	
Number of Subsamples				1	1	1	1	
Rating Timing				1 WEEK	2 WEEK			
Days After First/Last Applic.				34 7	41 14	50 23	125 98	
Trt-Eval Interval						23 DA-A		
Plant-Eval Interval				35 DP-1	42 DP-1	51 DP-1	126 DP-1	
Days After Emergence				29 DE-	36 DE-	45 DE-	120 DE	
ARM Action Codes				P		P	TY1	
Number of Decimals				0		0	0	
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	7
25	SHARPEN	3	OZ/A	PRE	0	0.0	3	137
	DEGREE XTRA	3.5	QT/A	PRE				
	P 1253							
26	ROUNDUP POWERMAX	22	OZ/A	V5	0	0.0	3	140
	HEADLINE	3	OZ/A	V5				
	P 1253							
27	ROUNDUP POWERMAX	22	OZ/A	V5	0	0.0	3	137
	AMS	3.5	% V/V	V5				
	P 1253							
28	SHARPEN	3	OZ/A	PRE	0	0.0	3	159
	DEGREE XTRA	3.5	QT/A	PRE				
	DKC 63-42							
29	ROUNDUP POWERMAX	22	OZ/A	V5	0	0.0	2	156
	HEADLINE	3	OZ/A	V5				
	DKC 63-42							
30	ROUNDUP POWERMAX	22	OZ/A	V5	0	0.0	2	152
	AMS	3.5	% V/V	V5				
	DKC 63-42							
31	SHARPEN	3	OZ/A	PRE	0	0.0	7	141
	DEGREE XTRA	3.5	QT/A	PRE				
	DKC 63-84							
32	ROUNDUP POWERMAX	22	OZ/A	V5	0	0.0	10	141
	HEADLINE	3	OZ/A	V5				
	DKC 63-84							
33	ROUNDUP POWERMAX	22	OZ/A	V5	0	0.0	8	140
	AMS	3.5	% V/V	V5				
	DKC 63-84							
34	SHARPEN	3	OZ/A	PRE	0	0.0	2	141
	DEGREE XTRA	3.5	QT/A	PRE				
	P 33N58							
35	ROUNDUP POWERMAX	22	OZ/A	V5	0	0.0	2	139
	HEADLINE	3	OZ/A	V5				
	P 33N58							
36	ROUNDUP POWERMAX	22	OZ/A	V5	0	0.0	1	149
	AMS	3.5	% V/V	V5				
	P 33N58							
37	SHARPEN	3	OZ/A	PRE	0	0.0	3	150
	DEGREE XTRA	3.5	QT/A	PRE				
	DKC 64-03							

Plant and Soil Science, U of KY
Weed Science Research

Crop Code			ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale			BCOR	BCOR	BCOR	BCOR
Crop Scientific Name			Zea mays	Zea mays	Zea mays	Zea mays
Crop Name			Corn	Corn	Corn	Corn
Rating Date			6-9-2010	6-16-2010	6-25-2010	9-8-2010
Rating Type			INJURY	INJURY	SNAPPED	YIELD
Rating Unit			PERCENT	PERCENT	PLANTS	BU
Number of Subsamples			1	1	1	1
Rating Timing			1 WEEK	2 WEEK		
Days After First/Last Applic.			34 7	41 14	50 23	125 98
Trt-Eval Interval					23 DA-A	
Plant-Eval Interval			35 DP-1	42 DP-1	51 DP-1	126 DP-1
Days After Emergence			29 DE-	36 DE-	45 DE-	120 DE
ARM Action Codes			P		P	TY1
Number of Decimals			0		0	0
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	7
38	ROUNDUP POWERMAX	22	OZ/A	V5	0	0.0	2	149
	HEADLINE	3	OZ/A	V5				
	DKC 64-03							
39	ROUNDUP POWERMAX	22	OZ/A	V5	0	0.0	2	140
	AMS	3.5	% V/V	V5				
	DKC 64-03							
40	SHARPEN	3	OZ/A	PRE	0	0.0	1	148
	DEGREE XTRA	3.5	QT/A	PRE				
	DKC 64-69							
41	ROUNDUP POWERMAX	22	OZ/A	V5	0	0.0	1	147
	HEADLINE	3	OZ/A	V5				
	DKC 64-69							
42	ROUNDUP POWERMAX	22	OZ/A	V5	0	0.0	1	137
	AMS	3.5	% V/V	V5				
	DKC 64-69							
43	SHARPEN	3	OZ/A	PRE	0	0.0	1	132
	DEGREE XTRA	3.5	QT/A	PRE				
	DKC 65-44							
44	ROUNDUP POWERMAX	22	OZ/A	V5	0	0.0	0	139
	HEADLINE	3	OZ/A	V5				
	DKC 65-44							
45	ROUNDUP POWERMAX	22	OZ/A	V5	0	0.0	0	130
	AMS	3.5	% V/V	V5				
	DKC 65-44							
46	SHARPEN	3	OZ/A	PRE	0	0.0	1	148
	DEGREE XTRA	3.5	QT/A	PRE				
	P 1615							
47	ROUNDUP POWERMAX	22	OZ/A	V5	0	0.0	1	152
	HEADLINE	3	OZ/A	V5				
	P 1615							
48	ROUNDUP POWERMAX	22	OZ/A	V5	0	0.0	1	154
	AMS	3.5	% V/V	V5				
	P 1615							
49	SHARPEN	3	OZ/A	PRE	0	0.0	1	153
	DEGREE XTRA	3.5	QT/A	PRE				
	DKC 66-96							
50	ROUNDUP POWERMAX	22	OZ/A	V5	0	0.0	0	150
	HEADLINE	3	OZ/A	V5				
	DKC 66-96							

Plant and Soil Science, U of KY
Weed Science Research

Crop Code			ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale			BCOR	BCOR	BCOR	BCOR
Crop Scientific Name			Zea mays	Zea mays	Zea mays	Zea mays
Crop Name			Corn	Corn	Corn	Corn
Rating Date			6-9-2010	6-16-2010	6-25-2010	9-8-2010
Rating Type			INJURY	INJURY	SNAPPED	YIELD
Rating Unit			PERCENT	PERCENT	PLANTS	BU
Number of Subsamples			1	1	1	1
Rating Timing			1 WEEK	2 WEEK		
Days After First/Last Applic.			34 7	41 14	50 23	125 98
Trt-Eval Interval					23 DA-A	
Plant-Eval Interval			35 DP-1	42 DP-1	51 DP-1	126 DP-1
Days After Emergence			29 DE-	36 DE-	45 DE-	120 DE
ARM Action Codes			P		P	TY1
Number of Decimals			0		0	0
Trt No.	Treatment Name	Rate / Rate Unit	Growth Stage	1	2	3	7
51	ROUNDUP POWERMAX	22 OZ/A	V5	0	0.0	1	165
	AMS	3.5 % V/V	V5				
	DKC 66-96						
52	SHARPEN	3 OZ/A	PRE	0	0.0	2	138
	DEGREE XTRA	3.5 QT/A	PRE				
	DKC 62-13						
53	ROUNDUP POWERMAX	22 OZ/A	V5	0	0.0	1	135
	HEADLINE	3 OZ/A	V5				
	DKC 62-13						
54	ROUNDUP POWERMAX	22 OZ/A	V5	0	0.0	1	134
	AMS	3.5 % V/V	V5				
	DKC 62-13						
55	SHARPEN	3 OZ/A	PRE	0	0.0	0	128
	DEGREE XTRA	3.5 QT/A	PRE				
	DKC 63-25						
56	ROUNDUP POWERMAX	22 OZ/A	V5	0	0.0	0	133
	HEADLINE	3 OZ/A	V5				
	DKC 63-25						
57	ROUNDUP POWERMAX	22 OZ/A	V5	0	0.0	0	127
	AMS	3.5 % V/V	V5				
	DKC 63-25						
58	SHARPEN	3 OZ/A	PRE	0	0.0	1	125
	DEGREE XTRA	3.5 QT/A	PRE				
	P 33F87						
59	ROUNDUP POWERMAX	22 OZ/A	V5	0	0.0	1	130
	HEADLINE	3 OZ/A	V5				
	P 33F87						
60	ROUNDUP POWERMAX	22 OZ/A	V5	0	0.0	1	124
	AMS	3.5 % V/V	V5				
	P 33F87						
LSD (P=.05)				0.0	0.00	2.9	9.7
Standard Deviation				0.0	0.00	2.1	6.9
CV				0.0	0.0	59.97	4.83
Bartlett's X2				0.0	0.0	128.29	89.105
P(Bartlett's X2)				.	.	0.001*	0.007*
Replicate F				0.000	0.000	16.841	17.589
Replicate Prob(F)				1.0000	1.0000	0.0001	0.0001
Treatment F				0.000	0.000	11.721	6.471
Treatment Prob(F)				1.0000	1.0000	0.0001	0.0001

Plant and Soil Science, U of KY
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CORN POSTEMERGENCE VARIETIES

Trial ID: C10020 Protocol ID: C10020
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: C10020 Investigator: Charles H Slack
Sponsor Contact:

Crop Code
ZEAMX, BCOR, Zea mays, = US
Rating Type
YIELD = yield
Rating Unit
PERCENT = percent
BU = bushel
Plant-Eval Interval
35 DP-1 = 1 5-5-2010
42 DP-1 = 1 5-5-2010
51 DP-1 = 1 5-5-2010
126 DP-1 = 1 5-5-2010
ARM Action Codes
P = Rating scale of 0 to 100 (e.g. % control or injury)
TY1 = 5.761905*[C5]*(100-[C6])/84.5

Plant and Soil Science, U of KY
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CORN POSTEMERGENCE VARIETIES

Trial ID: C10020 Protocol ID: C10020
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: C10020 Investigator: Charles H Slack
Sponsor Contact:

General Trial Information

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Investigator: Charles H. Slack

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5-5-2010

Trial Location

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

Personnel

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Affiliation: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING
Location: LEXINGTON, KY
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu
Mobile No.: 859-227-3355
Investigator: Charles H. Slack
Affiliation: University of Kentucky
Location: Lexington, KY
Postal Code: 40546 **E-mail:** cslack@uky.edu

Other Personnel

Role	Name	Other
Research Analyst	Sara Carter	sara.carter@uky.edu

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC 60-51
BBCH Scale: BCOR **Planting Date:** 5-5-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 65 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-11-2010
Harvest Date: 9-15-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 27 FT
% Standard Moisture: 15.5

Crop 2: ZEAMX Zea mays Corn
Variety: DKC 61-05
BBCH Scale: BCOR **Planting Date:** 5-5-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 65 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-11-2010
Harvest Date: 9-15-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 27 FT
% Standard Moisture: 15.5

Crop 3: ZEAMX Zea mays Corn
Variety: DKC 61-35
BBCH Scale: BCOR **Planting Date:** 5-5-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 65 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-11-2010
Harvest Date: 9-15-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 27 FT
% Standard Moisture: 15.5

Crop 4: ZEAMX Zea mays Corn
Variety: DKC 61-49
BBCH Scale: BCOR **Planting Date:** 5-5-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 65 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-11-2010
Harvest Date: 9-15-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 27 FT
% Standard Moisture: 15.5

Crop 5: ZEAMX Zea mays Corn
Variety: DKC 61-69
BBCH Scale: BCOR **Planting Date:** 5-5-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 65 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-11-2010
Harvest Date: 9-15-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 27 FT
% Standard Moisture: 15.5

Crop 6: ZEAMX Zea mays Corn
Variety: P 1184
BBCH Scale: BCOR **Planting Date:** 5-5-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 65 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-11-2010
Harvest Date: 9-15-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 27 FT
% Standard Moisture: 15.5

Crop 7: ZEAMX Zea mays Corn
Variety: DKC 62-54
BBCH Scale: BCOR **Planting Date:** 5-5-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 65 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-11-2010
Harvest Date: 9-15-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 27 FT
% Standard Moisture: 15.5

Crop 8: ZEAMX Zea mays Corn
Variety: DKC 62-97
BBCH Scale: BCOR **Planting Date:** 5-5-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 65 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-11-2010
Harvest Date: 9-15-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 27 FT
% Standard Moisture: 15.5

Crop 9: ZEAMX Zea mays Corn
Variety: P 1253
BBCH Scale: BCOR **Planting Date:** 5-5-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 65 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-11-2010
Harvest Date: 9-15-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 27 FT
% Standard Moisture: 15.5

Crop 10: ZEAMX Zea mays Corn
Variety: DKC 63-42
BBCH Scale: BCOR **Planting Date:** 5-5-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 65 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-11-2010
Harvest Date: 9-15-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 27 FT
% Standard Moisture: 15.5

Crop 11: ZEAMX Zea mays Corn
Variety: DKC 63-84
BBCH Scale: BCOR **Planting Date:** 5-5-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 65 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-11-2010
Harvest Date: 9-15-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 27 FT
% Standard Moisture: 15.5

Crop 12: ZEAMX Zea mays Corn
Variety: P 33N58
BBCH Scale: BCOR **Planting Date:** 5-5-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 65 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-11-2010
Harvest Date: 9-15-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 27 FT
% Standard Moisture: 15.5

Crop 13: ZEAMX Zea mays Corn
Variety: DKC 64-03

BBCH Scale: BCOR **Planting Date:** 5-5-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 65 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-11-2010
Harvest Date: 9-15-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 27 FT
% Standard Moisture: 15.5

Crop 14: ZEAMX Zea mays Corn
Variety: DKC 64-69
BBCH Scale: BCOR **Planting Date:** 5-5-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 65 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-11-2010
Harvest Date: 9-15-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 27 FT
% Standard Moisture: 15.5

Crop 15: ZEAMX Zea mays Corn
Variety: DKC 65-44
BBCH Scale: BCOR **Planting Date:** 5-5-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 65 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-11-2010
Harvest Date: 9-15-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 27 FT
% Standard Moisture: 15.5

Crop 16: ZEAMX Zea mays Corn
Variety: P 1615
BBCH Scale: BCOR **Planting Date:** 5-5-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 65 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-11-2010
Harvest Date: 9-15-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 27 FT
% Standard Moisture: 15.5

Crop 17: ZEAMX Zea mays Corn
Variety: DKC 66-96
BBCH Scale: BCOR **Planting Date:** 5-5-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 65 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-11-2010
Harvest Date: 9-15-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 27 FT
% Standard Moisture: 15.5

Crop 18: ZEAMX Zea mays Corn
Variety: DKC 62-13
BBCH Scale: BCOR **Planting Date:** 5-5-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A

Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 65 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-11-2010
Harvest Date: 9-15-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 27 FT
% Standard Moisture: 15.5

Crop 19: ZEAMX Zea mays Corn
Variety: DKC 63-25
BBCH Scale: BCOR **Planting Date:** 5-5-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 65 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-11-2010
Harvest Date: 9-15-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 27 FT
% Standard Moisture: 15.5

Crop 20: ZEAMX Zea mays Corn
Variety: P 33F87
BBCH Scale: BCOR **Planting Date:** 5-5-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 65 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-11-2010
Harvest Date: 9-15-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 27 FT
% Standard Moisture: 15.5

Site and Design

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

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:** 17 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

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

Plant and Soil Science, U of KY
Weed Science Research

Application Description

	A	B
Application Date:	5-6-2010	6-2-2010
Time of Day:	2 PM	10 AM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	V5
Application Placement:	BROSOL	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	72 F	80 F
% Relative Humidity:	44	66
Wind Velocity, Unit:	3 MPH	8 MPH
Wind Direction:	NE	SW
Soil Temperature, Unit:	70 F	75 F
Soil Moisture:	GOOD	GOOD
% Cloud Cover:	20	80
Next Rain Occurred On:	6-4-2010	6-4-2010

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		V5
Height, Unit:		14 IN
Crop 2 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		V5
Height, Unit:		14 IN
Crop 3 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		V5
Height, Unit:		14 IN
Crop 4 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		V5
Height, Unit:		14 IN
Crop 5 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		V5
Height, Unit:		14 IN
Crop 6 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		V5
Height, Unit:		14 IN
Crop 7 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		V5
Height, Unit:		14 IN
Crop 8 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		V5
Height, Unit:		14 IN
Crop 9 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		V5
Height, Unit:		14 IN
Crop10 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		V5
Height, Unit:		14 IN
Crop11 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		V5

Height, Unit:	14 IN	
Crop12 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH	
Stage Majority, Percent:	V5	
Height, Unit:	14 IN	
Crop13 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH	
Stage Majority, Percent:	V5	
Height, Unit:	14 IN	
Crop14 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH	
Stage Majority, Percent:	V5	
Height, Unit:	14 IN	
Crop15 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH	
Stage Majority, Percent:	V5	
Height, Unit:	14 IN	
Crop16 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH	
Stage Majority, Percent:	V5	
Height, Unit:	14 IN	
Crop17 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH	
Stage Majority, Percent:	V5	
Height, Unit:	14 IN	
Crop18 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH	
Stage Majority, Percent:	V5	
Height, Unit:	14 IN	
Crop19 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH	
Stage Majority, Percent:	V5	
Height, Unit:	14 IN	
Crop20 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH	
Stage Majority, Percent:	V5	
Height, Unit:	14 IN	

Application Equipment

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

Plant and Soil Science, U of KY
Weed Science Research

NO-TILL CORN POSTEMERGENCE VARIETIES

Trial ID: C10021 Protocol ID: C10021
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: C10021 Investigator: Charles H Slack
Sponsor Contact:

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	8
	Crop Code				ZEAMX	ZEAMX	ZEAMX	ZEAMX
	BBCH Scale				BCOR	BCOR	BCOR	BCOR
	Crop Scientific Name				Zea mays	Zea mays	Zea mays	Zea mays
	Crop Name				Corn	Corn	Corn	Corn
	Rating Date				6-9-2010	6-16-2010	6-25-2010	9-7-2010
	Rating Type				INJURY	INJURY	SNAPPED	YIELD
	Rating Unit				PERCENT	PERCENT	PLANTS	BU
	Number of Subsamples				1	1	1	1
	Rating Timing				1 WEEK	2 WEEK		
	Days After First/Last Applic.				34 7	41 14	50 23	124 97
	Trt-Eval Interval						23 DA-A	
	Plant-Eval Interval				35 DP-1	42 DP-1	51 DP-1	125 DP-1
	Days After Emergence				29 DE-	36 DE-	45 DE-	119 DE
	ARM Action Codes				P	P	P	TY1
	Number of Decimals				0	0	0	0
1	SHARPEN	3	OZ/A	PRE	0	0	7	172
	DEGREE XTRA	3.5	QT/A	PRE				
	ROUNDUP POWERMAX	22	OZ/A	PRE				
	MSO	2	QT/A	PRE				
	DCK 60-51							
2	ROUNDUP POWERMAX	22	OZ/A	V5	0	0	5	183
	HEADLINE	3	OZ/A	V5				
	DKC 60-51							
3	ROUNDUP POWERMAX	22	OZ/A	V5	0	0	4	179
	AMS	3.5	% V/V	V5				
	DKC 60-51							
4	SHARPEN	3	OZ/A	PRE	0	0	3	213
	DEGREE XTRA	3.5	QT/A	PRE				
	ROUNDUP POWERMAX	22	OZ/A	PRE				
	MSO	2	QT/A	PRE				
	DKC 61-05							
5	ROUNDUP POWERMAX	22	OZ/A	V5	0	0	2	217
	HEADLINE	3	OZ/A	V5				
	DKC 61-05							
6	ROUNDUP POWERMAX	22	OZ/A	V5	0	0	2	223
	AMS	3.5	% V/V	V5				
	DKC 61-05							
7	SHARPEN	3	OZ/A	PRE	0	0	6	194
	DEGREE XTRA	3.5	QT/A	PRE				
	ROUNDUP POWERMAX	22	OZ/A	PRE				
	MSO	2	QT/A	PRE				
	DKC 61-35							
8	ROUNDUP POWERMAX	22	OZ/A	V5	0	0	5	203
	HEADLINE	3	OZ/A	V5				
	DKC 61-35							
9	ROUNDUP POWERMAX	22	OZ/A	V5	0	0	5	200
	AMS	3.5	% V/V	V5				
	DKC 61-35							

Plant and Soil Science, U of KY
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Crop Code			ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale			BCOR	BCOR	BCOR	BCOR
Crop Scientific Name			Zea mays	Zea mays	Zea mays	Zea mays
Crop Name			Corn	Corn	Corn	Corn
Rating Date			6-9-2010	6-16-2010	6-25-2010	9-7-2010
Rating Type			INJURY	INJURY	SNAPPED	YIELD
Rating Unit			PERCENT	PERCENT	PLANTS	BU
Number of Subsamples			1	1	1	1
Rating Timing			1 WEEK	2 WEEK		
Days After First/Last Applic.			34 7	41 14	50 23	124 97
Trt-Eval Interval					23 DA-A	
Plant-Eval Interval			35 DP-1	42 DP-1	51 DP-1	125 DP-1
Days After Emergence			29 DE-	36 DE-	45 DE-	119 DE
ARM Action Codes			P	P	P	TY1
Number of Decimals			0	0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	8
10	SHARPEN	3	OZ/A	PRE	0	0	7	203
	DEGREE XTRA	3.5	QT/A	PRE				
	ROUNDUP POWERMAX	22	OZ/A	PRE				
	MSO	2	QT/A	PRE				
	DKC 61-49							
11	ROUNDUP POWERMAX	22	OZ/A	V5	0	0	8	195
	HEADLINE	3	OZ/A	V5				
	DKC 61-49							
12	ROUNDUP POWERMAX	22	OZ/A	V5	0	0	8	172
	AMS	3.5	% V/V	V5				
	DKC 61-49							
13	SHARPEN	3	OZ/A	PRE	0	0	10	188
	DEGREE XTRA	3.5	QT/A	PRE				
	ROUNDUP POWERMAX	22	OZ/A	PRE				
	MSO	2	QT/A	PRE				
	DKC 61-69							
14	ROUNDUP POWERMAX	22	OZ/A	V5	0	0	8	174
	HEADLINE	3	OZ/A	V5				
	DKC 61-69							
15	ROUNDUP POWERMAX	22	OZ/A	V5	0	0	9	185
	AMS	3.5	% V/V	V5				
	DKC 61-69							
16	SHARPEN	3	OZ/A	PRE	0	0	4	199
	DEGREE XTRA	3.5	QT/A	PRE				
	ROUNDUP POWERMAX	22	OZ/A	PRE				
	MSO	2	QT/A	PRE				
	P 1184							
17	ROUNDUP POWERMAX	22	OZ/A	V5	0	0	6	203
	HEADLINE	3	OZ/A	V5				
	P 1184							
18	ROUNDUP POWERMAX	22	OZ/A	V5	0	0	6	195
	AMS	3.5	% V/V	V5				
	P 1184							
19	SHARPEN	3	OZ/A	PRE	0	0	2	194
	DEGREE XTRA	3.5	QT/A	PRE				
	ROUNDUP POWERMAX	22	OZ/A	PRE				
	MSO	2	QT/A	PRE				
	DKC 62-54							
20	ROUNDUP POWERMAX	22	OZ/A	V5	0	0	1	192
	HEADLINE	3	OZ/A	V5				
	DKC 62-54							

Plant and Soil Science, U of KY
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Crop Code			ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale			BCOR	BCOR	BCOR	BCOR
Crop Scientific Name			Zea mays	Zea mays	Zea mays	Zea mays
Crop Name			Corn	Corn	Corn	Corn
Rating Date			6-9-2010	6-16-2010	6-25-2010	9-7-2010
Rating Type			INJURY	INJURY	SNAPPED	YIELD
Rating Unit			PERCENT	PERCENT	PLANTS	BU
Number of Subsamples			1	1	1	1
Rating Timing			1 WEEK	2 WEEK		
Days After First/Last Applic.			34 7	41 14	50 23	124 97
Trt-Eval Interval					23 DA-A	
Plant-Eval Interval			35 DP-1	42 DP-1	51 DP-1	125 DP-1
Days After Emergence			29 DE-	36 DE-	45 DE-	119 DE
ARM Action Codes			P	P	P	TY1
Number of Decimals			0	0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	8
21	ROUNDUP POWERMAX	22	OZ/A	V5	0	0	3	190
	AMS	3.5	% V/V	V5				
	DKC 62-54							
22	SHARPEN	3	OZ/A	PRE	0	0	4	194
	DEGREE XTRA	3.5	QT/A	PRE				
	ROUNDUP POWERMAX	22	OZ/A	PRE				
	MSO	2	QT/A	PRE				
	DKC 62-97							
23	ROUNDUP POWERMAX	22	OZ/A	V5	0	0	4	188
	HEADLINE	3	OZ/A	V5				
	DKC 62-97							
24	ROUNDUP POWERMAX	22	OZ/A	V5	0	0	2	186
	AMS	3.5	% V/V	V5				
	DKC 62-97							
25	SHARPEN	3	OZ/A	PRE	0	0	4	196
	DEGREE XTRA	3.5	QT/A	PRE				
	ROUNDUP POWERMAX	22	OZ/A	PRE				
	MSO	2	QT/A	PRE				
	P 1253							
26	ROUNDUP POWERMAX	22	OZ/A	V5	0	0	6	197
	HEADLINE	3	OZ/A	V5				
	P 1253							
27	ROUNDUP POWERMAX	22	OZ/A	V5	0	0	6	193
	AMS	3.5	% V/V	V5				
	P 1253							
28	SHARPEN	3	OZ/A	PRE	0	0	2	201
	DEGREE XTRA	3.5	QT/A	PRE				
	ROUNDUP POWERMAX	22	OZ/A	PRE				
	MSO	2	QT/A	PRE				
	DKC 63-42							
29	ROUNDUP POWERMAX	22	OZ/A	V5	0	0	2	200
	HEADLINE	3	OZ/A	V5				
	DKC 63-42							
30	ROUNDUP POWERMAX	22	OZ/A	V5	0	0	3	199
	AMS	3.5	% V/V	V5				
	DKC 63-42							
31	SHARPEN	3	OZ/A	PRE	0	0	10	193
	DEGREE XTRA	3.5	QT/A	PRE				
	ROUNDUP POWERMAX	22	OZ/A	PRE				
	MSO	2	QT/A	PRE				
	DKC 63-84							

Plant and Soil Science, U of KY
Weed Science Research

Crop Code			ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale			BCOR	BCOR	BCOR	BCOR
Crop Scientific Name			Zea mays	Zea mays	Zea mays	Zea mays
Crop Name			Corn	Corn	Corn	Corn
Rating Date			6-9-2010	6-16-2010	6-25-2010	9-7-2010
Rating Type			INJURY	INJURY	SNAPPED	YIELD
Rating Unit			PERCENT	PERCENT	PLANTS	BU
Number of Subsamples			1	1	1	1
Rating Timing			1 WEEK	2 WEEK		
Days After First/Last Applic.			34 7	41 14	50 23	124 97
Trt-Eval Interval					23 DA-A	
Plant-Eval Interval			35 DP-1	42 DP-1	51 DP-1	125 DP-1
Days After Emergence			29 DE-	36 DE-	45 DE-	119 DE
ARM Action Codes			P	P	P	TY1
Number of Decimals			0	0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	8
32	ROUNDUP POWERMAX	22	OZ/A	V5	0	0	11	187
	HEADLINE	3	OZ/A	V5				
	DKC 63-84							
33	ROUNDUP POWERMAX	22	OZ/A	V5	0	0	12	184
	AMS	3.5	% V/V	V5				
	DKC 63-84							
34	SHARPEN	3	OZ/A	PRE	0	0	6	218
	DEGREE XTRA	3.5	QT/A	PRE				
	ROUNDUP POWERMAX	22	OZ/A	PRE				
	MSO	2	QT/A	PRE				
	P 33N58							
35	ROUNDUP POWERMAX	22	OZ/A	V5	0	0	5	220
	HEADLINE	3	OZ/A	V5				
	P 33N58							
36	ROUNDUP POWERMAX	22	OZ/A	V5	0	0	5	228
	AMS	3.5	% V/V	V5				
	P 33N58							
37	SHARPEN	3	OZ/A	PRE	0	0	6	210
	DEGREE XTRA	3.5	QT/A	PRE				
	ROUNDUP POWERMAX	22	OZ/A	PRE				
	MSO	2	QT/A	PRE				
	DKC 64-03							
38	ROUNDUP POWERMAX	22	OZ/A	V5	0	0	6	211
	HEADLINE	3	OZ/A	V5				
	DKC 64-03							
39	ROUNDUP POWERMAX	22	OZ/A	V5	0	0	6	211
	AMS	3.5	% V/V	V5				
	DKC 64-03							
40	SHARPEN	3	OZ/A	PRE	0	0	3	234
	DEGREE XTRA	3.5	QT/A	PRE				
	ROUNDUP POWERMAX	22	OZ/A	PRE				
	MSO	2	QT/A	PRE				
	DKC 64-69							
41	ROUNDUP POWERMAX	22	OZ/A	V5	0	0	4	229
	HEADLINE	3	OZ/A	V5				
	DKC 64-69							
42	ROUNDUP POWERMAX	22	OZ/A	V5	0	0	3	232
	AMS	3.5	% V/V	V5				
	DKC 64-69							

Plant and Soil Science, U of KY
Weed Science Research

Crop Code				ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale				BCOR	BCOR	BCOR	BCOR
Crop Scientific Name				Zea mays	Zea mays	Zea mays	Zea mays
Crop Name				Corn	Corn	Corn	Corn
Rating Date				6-9-2010	6-16-2010	6-25-2010	9-7-2010
Rating Type				INJURY	INJURY	SNAPPED	YIELD
Rating Unit				PERCENT	PERCENT	PLANTS	BU
Number of Subsamples				1	1	1	1
Rating Timing				1 WEEK	2 WEEK		
Days After First/Last Applic.				34 7	41 14	50 23	124 97
Trt-Eval Interval						23 DA-A	
Plant-Eval Interval				35 DP-1	42 DP-1	51 DP-1	125 DP-1
Days After Emergence				29 DE-	36 DE-	45 DE-	119 DE
ARM Action Codes				P	P	P	TY1
Number of Decimals				0	0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	8
43	SHARPEN	3	OZ/A	PRE	0	0	0	202
	DEGREE XTRA	3.5	QT/A	PRE				
	ROUNDUP POWERMAX	22	OZ/A	PRE				
	MSO	2	QT/A	PRE				
	DKC 65-44							
44	ROUNDUP POWERMAX	22	OZ/A	V5	0	0	1	208
	HEADLINE	3	OZ/A	V5				
	DKC 65-44							
45	ROUNDUP POWERMAX	22	OZ/A	V5	0	0	1	192
	AMS	3.5	% V/V	V5				
	DKC 65-44							
46	SHARPEN	3	OZ/A	PRE	0	0	5	224
	DEGREE XTRA	3.5	QT/A	PRE				
	ROUNDUP POWERMAX	22	OZ/A	PRE				
	MSO	2	QT/A	PRE				
	P 1615							
47	ROUNDUP POWERMAX	22	OZ/A	V5	0	0	7	230
	HEADLINE	3	OZ/A	V5				
	P 1615							
48	ROUNDUP POWERMAX	22	OZ/A	V5	0	0	6	229
	AMS	3.5	% V/V	V5				
	P 1615							
49	SHARPEN	3	OZ/A	PRE	0	0	0	225
	DEGREE XTRA	3.5	QT/A	PRE				
	ROUNDUP POWERMAX	22	OZ/A	PRE				
	MSO	2	QT/A	PRE				
	DKC 66-96							
50	ROUNDUP POWERMAX	22	OZ/A	V5	0	0	1	232
	HEADLINE	3	OZ/A	V5				
	DKC 66-96							
51	ROUNDUP POWERMAX	22	OZ/A	V5	0	0	1	230
	AMS	3.5	% V/V	V5				
	DKC 66-96							
52	SHARPEN	3	OZ/A	PRE	0	0	0	204
	DEGREE XTRA	3.5	QT/A	PRE				
	ROUNDUP POWERMAX	22	OZ/A	PRE				
	MSO	2	QT/A	PRE				
	DKC 62-13							
53	ROUNDUP POWERMAX	22	OZ/A	V5	0	0	0	196
	HEADLINE	3	OZ/A	V5				
	DKC 62-13							

Plant and Soil Science, U of KY
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Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	8
	Crop Code				ZEAMX	ZEAMX	ZEAMX	ZEAMX
	BBCH Scale				BCOR	BCOR	BCOR	BCOR
	Crop Scientific Name				Zea mays	Zea mays	Zea mays	Zea mays
	Crop Name				Corn	Corn	Corn	Corn
	Rating Date				6-9-2010	6-16-2010	6-25-2010	9-7-2010
	Rating Type				INJURY	INJURY	SNAPPED	YIELD
	Rating Unit				PERCENT	PERCENT	PLANTS	BU
	Number of Subsamples				1	1	1	1
	Rating Timing				1 WEEK	2 WEEK		
	Days After First/Last Applic.				34 7	41 14	50 23	124 97
	Trt-Eval Interval						23 DA-A	
	Plant-Eval Interval				35 DP-1	42 DP-1	51 DP-1	125 DP-1
	Days After Emergence				29 DE-	36 DE-	45 DE-	119 DE
	ARM Action Codes				P	P	P	TY1
	Number of Decimals				0	0	0	0
54	ROUNDUP POWERMAX	22	OZ/A	V5	0	0	0	198
	AMS	3.5	% V/V	V5				
	DKC 62-13							
55	SHARPEN	3	OZ/A	PRE	0	0	0	221
	DEGREE XTRA	3.5	QT/A	PRE				
	ROUNDUP POWERMAX	22	OZ/A	PRE				
	MSO	2	QT/A	PRE				
	DKC 63-25							
56	ROUNDUP POWERMAX	22	OZ/A	V5	0	0	0	218
	HEADLINE	3	OZ/A	V5				
	DKC 63-25							
57	ROUNDUP POWERMAX	22	OZ/A	V5	0	0	0	226
	AMS	3.5	% V/V	V5				
	DKC 63-25							
58	SHARPEN	3	OZ/A	PRE	0	0	1	206
	DEGREE XTRA	3.5	QT/A	PRE				
	ROUNDUP POWERMAX	22	OZ/A	PRE				
	MSO	2	QT/A	PRE				
	P 33F87							
59	ROUNDUP POWERMAX	22	OZ/A	V5	0	0	0	215
	HEADLINE	3	OZ/A	V5				
	P 33F87							
60	ROUNDUP POWERMAX	22	OZ/A	V5	0	0	0	215
	AMS	3.5	% V/V	V5				
	P 33F87							
	LSD (P=.05)				0.0	0.0	3.0	11.1
	Standard Deviation				0.0	0.0	2.2	7.9
	CV				0.0	0.0	54.18	3.87
	Bartlett's X2				0.0	0.0	67.163	119.912
	P(Bartlett's X2)				.	.	0.053	0.001*
	Replicate F				0.000	0.000	3.929	3.522
	Replicate Prob(F)				1.0000	1.0000	0.0096	0.0162
	Treatment F				0.000	0.000	8.326	17.742
	Treatment Prob(F)				1.0000	1.0000	0.0001	0.0001

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

BU = bushel

Plant-Eval Interval

35 DP-1 = 1 5-5-2010
42 DP-1 = 1 5-5-2010
51 DP-1 = 1 5-5-2010
125 DP-1 = 1 5-5-2010

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. % control or injury)
TY1 = 5.761905*[C5]*(100-[C7])/84.5

Plant and Soil Science, U of KY
Weed Science Research

NO-TILL CORN POSTEMERGENCE VARIETIES

Trial ID: C10021 Protocol ID: C10021
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: C10021 Investigator: Charles H Slack
Sponsor Contact:

General Trial Information

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Investigator: Charles H. Slack

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5-5-2010

Trial Location

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

Personnel

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Affiliation: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING
Location: LEXINGTON, KY
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu
Mobile No.: 859-227-3355
Investigator: Charles H. Slack
Affiliation: University of Kentucky
Location: Lexington, KY
Postal Code: 40546 **E-mail:** cslack@uky.edu

Other Personnel

Role	Name	Other
Research Analyst	Sara Carter	sara.carter@uky.edu

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC 60-51
BBCH Scale: BCOR **Planting Date:** 5-5-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 65 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-11-2010
Harvest Date: 9-15-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 27 FT
% Standard Moisture: 15.5

Crop 2: ZEAMX Zea mays Corn
Variety: DKC 61-05
BBCH Scale: BCOR **Planting Date:** 5-5-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 65 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-11-2010
Harvest Date: 9-15-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 27 FT
% Standard Moisture: 15.5

Crop 3: ZEAMX Zea mays Corn
Variety: DKC 61-35
BBCH Scale: BCOR **Planting Date:** 5-5-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 65 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-11-2010
Harvest Date: 9-15-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 27 FT
% Standard Moisture: 15.5

Crop 4: ZEAMX Zea mays Corn
Variety: DKC 61-49
BBCH Scale: BCOR **Planting Date:** 5-5-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 65 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-11-2010
Harvest Date: 9-15-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 27 FT
% Standard Moisture: 15.5

Crop 5: ZEAMX Zea mays Corn
Variety: DKC 61-69
BBCH Scale: BCOR **Planting Date:** 5-5-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 65 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-11-2010
Harvest Date: 9-15-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 27 FT
% Standard Moisture: 15.5

Crop 6: ZEAMX Zea mays Corn
Variety: P 1184
BBCH Scale: BCOR **Planting Date:** 5-5-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 65 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-11-2010
Harvest Date: 9-15-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 27 FT
% Standard Moisture: 15.5

Crop 7: ZEAMX Zea mays Corn
Variety: DKC 62-54
BBCH Scale: BCOR **Planting Date:** 5-5-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 65 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-11-2010
Harvest Date: 9-15-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 27 FT
% Standard Moisture: 15.5

Crop 8: ZEAMX Zea mays Corn
Variety: DKC 62-97
BBCH Scale: BCOR **Planting Date:** 5-5-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 65 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-11-2010
Harvest Date: 9-15-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 27 FT
% Standard Moisture: 15.5

Crop 9: ZEAMX Zea mays Corn
Variety: P 1253
BBCH Scale: BCOR **Planting Date:** 5-5-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 65 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-11-2010
Harvest Date: 9-15-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 27 FT
% Standard Moisture: 15.5

Crop 10: ZEAMX Zea mays Corn
Variety: DKC 63-42
BBCH Scale: BCOR **Planting Date:** 5-5-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 65 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-11-2010
Harvest Date: 9-15-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 27 FT
% Standard Moisture: 15.5

Crop 11: ZEAMX Zea mays Corn
Variety: DKC 63-84
BBCH Scale: BCOR **Planting Date:** 5-5-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 65 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-11-2010
Harvest Date: 9-15-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 27 FT
% Standard Moisture: 15.5

Crop 12: ZEAMX Zea mays Corn
Variety: P 33N58
BBCH Scale: BCOR **Planting Date:** 5-5-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 65 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-11-2010
Harvest Date: 9-15-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 27 FT
% Standard Moisture: 15.5

Crop 13: ZEAMX Zea mays Corn
Variety: DKC 64-03

BBCH Scale: BCOR **Planting Date:** 5-5-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 65 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-11-2010
Harvest Date: 9-15-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 27 FT
% Standard Moisture: 15.5

Crop 14: ZEAMX Zea mays Corn
Variety: DKC 64-69
BBCH Scale: BCOR **Planting Date:** 5-5-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 65 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-11-2010
Harvest Date: 9-15-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 27 FT
% Standard Moisture: 15.5

Crop 15: ZEAMX Zea mays Corn
Variety: DKC 65-44
BBCH Scale: BCOR **Planting Date:** 5-5-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 65 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-11-2010
Harvest Date: 9-15-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 27 FT
% Standard Moisture: 15.5

Crop 16: ZEAMX Zea mays Corn
Variety: P 1615
BBCH Scale: BCOR **Planting Date:** 5-5-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 65 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-11-2010
Harvest Date: 9-15-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 27 FT
% Standard Moisture: 15.5

Crop 17: ZEAMX Zea mays Corn
Variety: DKC 66-96
BBCH Scale: BCOR **Planting Date:** 5-5-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 65 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-11-2010
Harvest Date: 9-15-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 27 FT
% Standard Moisture: 15.5

Crop 18: ZEAMX Zea mays Corn
Variety: DKC 62-13
BBCH Scale: BCOR **Planting Date:** 5-5-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A

Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 65 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-11-2010
Harvest Date: 9-15-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 27 FT
% Standard Moisture: 15.5

Crop 19: ZEAMX Zea mays Corn
Variety: DKC 63-25
BBCH Scale: BCOR **Planting Date:** 5-5-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 65 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-11-2010
Harvest Date: 9-15-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 27 FT
% Standard Moisture: 15.5

Crop 20: ZEAMX Zea mays Corn
Variety: P 33F87
BBCH Scale: BCOR **Planting Date:** 5-5-2010
Planting Method: ROWS planted **Rate, Unit:** 30000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 65 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-11-2010
Harvest Date: 9-15-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 27 FT
% Standard Moisture: 15.5

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD field
Plot Length, Unit: 33 FT
Plot Area, Unit: 330 FT2 **Tillage Type:** NOTILL no-till
Replications: 4 **Study Design:** SPLBLO Split-Block

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.6 **Texture:** SIL silt loam
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY SILT LOAM
% Clay: 32 **CEC:** 17 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

Overall Moisture Conditions: WEDRDR wet-dry-dry
Closest Weather Station: SPINDLETOP **Distance, Unit:** 2.5 MI

Application Description

	A	B
Application Date:	5-6-2010	6-2-2010
Time of Day:	2 PM	2 PM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	V5
Application Placement:	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	75 F	85 F
% Relative Humidity:	45	55
Wind Velocity, Unit:	3 MPH	8 MPH
Wind Direction:	NE	SW
Soil Temperature, Unit:	69 F	72 F
Soil Moisture:	GOOD	GOOD
% Cloud Cover:	30	30
Next Rain Occurred On:	5-8-2010	6-4-2010

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		V5
Height, Unit:		14 IN
Crop 2 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		V5
Height, Unit:		14 IN
Crop 3 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		V5
Height, Unit:		14 IN
Crop 4 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		V5
Height, Unit:		14 IN
Crop 5 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		V5
Height, Unit:		14 IN
Crop 6 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		V5
Height, Unit:		14 IN
Crop 7 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		V5
Height, Unit:		14 IN
Crop 8 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		V5
Height, Unit:		14 IN
Crop 9 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		V5
Height, Unit:		14 IN
Crop10 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		V5
Height, Unit:		14 IN
Crop11 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		V5

Height, Unit:	14 IN	
Crop12 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH	
Stage Majority, Percent:	V5	
Height, Unit:	14 IN	
Crop13 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH	
Stage Majority, Percent:	V5	
Height, Unit:	14 IN	
Crop14 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH	
Stage Majority, Percent:	V5	
Height, Unit:	14 IN	
Crop15 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH	
Stage Majority, Percent:	V5	
Height, Unit:	14 IN	
Crop16 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH	
Stage Majority, Percent:	V5	
Height, Unit:	14 IN	
Crop17 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH	
Stage Majority, Percent:	V5	
Height, Unit:	14 IN	
Crop18 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH	
Stage Majority, Percent:	V5	
Height, Unit:	14 IN	
Crop19 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH	
Stage Majority, Percent:	V5	
Height, Unit:	14 IN	
Crop20 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH	
Stage Majority, Percent:	V5	
Height, Unit:	14	

Application Equipment

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

Plant and Soil Science, U of KY
Weed Science Research

NO TILL SOYBEAN EARLY PREPLANT

Trial ID: S10020 Protocol ID: DUPONT--USA-113-10-01
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: HELEN FLANIGAN

Pest Type			W Weed	W Weed	W Weed		W Weed	W Weed	W Weed	W Weed		W Weed
Pest Code			STEME	LAMAM	AMBTR		SETFA	AMBTR	CHEAL	IPOSS		SETFA
Pest Scientific Name			Stellaria media	Lamium amplexicaule	Ambrosia trifida		Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.		Setaria faberi
Pest Name			Common chickweed	Henbit	Giant ragweed		Giant foxtail	Giant ragweed	Common lambsquarters	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			CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit			PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples			1	1	1	1	1	1	1	1	1	1
SE Description			AFTER 1ST APPL	AFTER 1ST APPL	AFTER 1ST APPL	AFTER PLANT	AFTER PLANT	AFTER PLANT	AFTER PLANT	AFTER PLANT		
Rating Timing			2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK
ARM Action Codes			P	P	P	P	P	P	P	P	P	P
Number of Decimals			0	0	0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9	10
1	CANOPY EX	1.5	OZ/A	10 D	99	99	99	0	57	98	99	95	0	57
	WEEDONE LV4	1	PT/A	10 D										
	COC	1	PT/A	10 D										
	AMS	3.7	% V/V	10 D										
2	CANOPY EX	1.5	OZ/A	10 D	99	99	99	0	63	96	99	96	0	63
	SHARPEN	1	FL OZ/A	10 D										
	COC	1	PT/A	10 D										
	AMS	3.7	% V/V	10 D										
3	CANOPY	4	OZ/A	10 D	99	99	99	0	69	96	99	98	0	68
	WEEDONE LV4	1	PT/A	10 D										
	COC	1	PT/A	10 D										
	AMS	3.7	% V/V	10 D										
4	CANOPY	4	OZ/A	10 D	99	99	99	0	60	91	99	93	0	60
	SHARPEN	1	FL OZ/A	10 D										
	COC	1	PT/A	10 D										
	AMS	3.7	% V/V	10 D										
5	SYNCHRONY XP	1	OZ/A	10 D	99	99	99	0	66	96	99	96	0	66
	WEEDONE LV4	1	PT/A	10 D										
	COC	1	PT/A	10 D										
	AMS	3.7	% V/V	10 D										
6	SYNCHRONY XP	1	OZ/A	10 D	96	96	95	0	37	78	99	87	0	37
	SHARPEN	1	FL OZ/A	10 D										
	COC	1	PT/A	10 D										
	AMS	3.7	% V/V	10 D										
7	SHARPEN	1	FL OZ/A	10 D	99	99	99	0	50	57	99	80	0	50
	COC	1	PT/A	10 D										
	AMS	3.7	% V/V	10 D										
8	CANOPY	4	OZ/A	PRE	99	99	99	0	93	99	99	99	0	93
	SHARPEN	1	FL OZ/A	PRE										
	ABUNDIT	32	FL OZ/A	PRE										
	AMS	3.7	% V/V	PRE										

Plant and Soil Science, U of KY
Weed Science Research

Pest Type				W Weed	W Weed	W Weed		W Weed	W Weed	W Weed	W Weed		W Weed
Pest Code				STEME	LAMAM	AMBTR		SETFA	AMBTR	CHEAL	IPOSS		SETFA
Pest Scientific Name				Stellaria media	Lamium amplexicaule	Ambrosia trifida		Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.		Setaria faberi
Pest Name				Common chickweed	Henbit	Giant ragweed		Giant foxtail	Giant ragweed	Common lambsquarters	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				CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples				1	1	1	1	1	1	1	1	1	1
SE Description				AFTER 1ST APPL	AFTER 1ST APPL	AFTER 1ST APPL	AFTER PLANT	AFTER PLANT	AFTER PLANT	AFTER PLANT	AFTER PLANT		
Rating Timing				2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK
ARM Action Codes				P	P	P	P	P	P	P	P	P	P
Number of Decimals				0	0	0	0	0	0	0	0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9	10
9	SYNCHRONY XP	1	OZ/A	PRE	99	99	99	0	89	99	99	92	0	89
	SHARPEN	1	FL OZ/A	PRE										
	ABUNDIT	32	FL OZ/A	PRE										
	AMS	3.7	% V/V	PRE										
10	SHARPEN	1	FL OZ/A	PRE	99	99	99	0	85	76	99	86	0	85
	ABUNDIT	32	FL OZ/A	PRE										
	AMS	3.7	% V/V	PRE										
11	CHECK UNTREATED				0	0	0	0	0	0	0	0	0	0
LSD (P=.05)					1.2	1.2	0.0	0.0	50.8	13.8	0.0	8.7	0.0	50.7
Standard Deviation					0.7	0.7	0.0	0.0	29.8	8.1	0.0	5.1	0.0	29.8
CV					0.78	0.78	0.0	0.0	49.03	10.06	0.0	6.08	0.0	49.01
Bartlett's X2					0.0	0.0	0.0	0.0	8.097	16.069	0.0	5.707	0.0	8.053
P(Bartlett's X2)					.	.	.	.	0.524	0.024*	.	0.574	.	0.529
Replicate F					1.000	1.000	0.000	0.000	0.914	0.744	0.000	0.033	0.000	0.894
Replicate Prob(F)					0.3855	0.3855	1.0000	1.0000	0.4171	0.4880	1.0000	0.9679	1.0000	0.4249
Treatment F					5487.363	5487.363	0.000	0.000	2.344	40.670	0.000	93.004	0.000	2.348
Treatment Prob(F)					0.0001	0.0001	1.0000	1.0000	0.0503	0.0001	1.0000	0.0001	1.0000	0.0500

Plant and Soil Science, U of KY
Weed Science Research

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	11	12	13	14	15	16	17	18	19
Pest Type					W Weed	W Weed	W Weed	W Weed		W Weed	W Weed	W Weed	W Weed
Pest Code					AMBTR	CHEAL	AMACH	IPOSS		SETFA	AMBTR	CHEAL	IPOSS
Pest Scientific Name					Ambrosia trifida	Chenopodium album	Amaranthus hybridus	Ipomoea sp.		Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.
Pest Name					Giant ragweed	Common lambsquarters	Smooth pigweed	Morning glory		Giant foxtail	Giant ragweed	Common lambsquarters	Morning glory
Crop Code									GLXMA				
BBCH Scale									BSOY				
Crop Scientific Name									Glycine max				
Crop Name									Soybean				
Rating Type					CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit					PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples					1	1	1	1	1	1	1	1	1
SE Description													
Rating Timing					4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes					P	P	P	P	P	P	P	P	P
Number of Decimals					0	0	0	0	0	0	0	0	0
1	CANOPY EX	1.5	OZ/A	10 D	95	99	91	93	0	57	95	91	93
	WEEDONE LV4	1	PT/A	10 D									
	COC	1	PT/A	10 D									
	AMS	3.7	% V/V	10 D									
2	CANOPY EX	1.5	OZ/A	10 D	90	99	96	93	0	63	90	96	93
	SHARPEN	1	FL OZ/A	10 D									
	COC	1	PT/A	10 D									
	AMS	3.7	% V/V	10 D									
3	CANOPY	4	OZ/A	10 D	90	99	89	98	0	69	90	89	98
	WEEDONE LV4	1	PT/A	10 D									
	COC	1	PT/A	10 D									
	AMS	3.7	% V/V	10 D									
4	CANOPY	4	OZ/A	10 D	82	99	89	88	0	60	82	89	88
	SHARPEN	1	FL OZ/A	10 D									
	COC	1	PT/A	10 D									
	AMS	3.7	% V/V	10 D									
5	SYNCHRONY XP	1	OZ/A	10 D	90	99	90	91	0	66	90	90	91
	WEEDONE LV4	1	PT/A	10 D									
	COC	1	PT/A	10 D									
	AMS	3.7	% V/V	10 D									
6	SYNCHRONY XP	1	OZ/A	10 D	67	99	90	82	0	37	67	90	82
	SHARPEN	1	FL OZ/A	10 D									
	COC	1	PT/A	10 D									
	AMS	3.7	% V/V	10 D									
7	SHARPEN	1	FL OZ/A	10 D	43	99	98	77	0	50	43	98	77
	COC	1	PT/A	10 D									
	AMS	3.7	% V/V	10 D									
8	CANOPY	4	OZ/A	PRE	95	99	96	90	0	93	95	96	90
	SHARPEN	1	FL OZ/A	PRE									
	ABUNDIT	32	FL OZ/A	PRE									
	AMS	3.7	% V/V	PRE									

Plant and Soil Science, U of KY
Weed Science Research

Pest Type				W Weed	W Weed	W Weed	W Weed		W Weed	W Weed	W Weed	W Weed
Pest Code				AMBTR	CHEAL	AMACH	IPOSS		SETFA	AMBTR	CHEAL	IPOSS
Pest Scientific Name				Ambrosia trifida	Chenopodium album	Amaranthus hybridus	Ipomoea sp.		Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.
Pest Name				Giant ragweed	Common lambsquarters	Smooth pigweed	Morning glory		Giant foxtail	Giant ragweed	Common lambsquarters	Morning glory
Crop Code								GLXMA				
BBCH Scale								BSOY				
Crop Scientific Name								Glycine max				
Crop Name								Soybean				
Rating Type				CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples				1	1	1	1	1	1	1	1	1
SE Description												
Rating Timing				4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes				P	P	P	P	P	P	P	P	P
Number of Decimals				0	0	0	0	0	0	0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	11	12	13	14	15	16	17	18	19
9	SYNCHRONY XP	1	OZ/A	PRE	95	99	99	90	0	89	95	99	90
	SHARPEN	1	FL OZ/A	PRE									
	ABUNDIT	32	FL OZ/A	PRE									
	AMS	3.7	% V/V	PRE									
10	SHARPEN	1	FL OZ/A	PRE	63	99	95	83	0	85	63	95	83
	ABUNDIT	32	FL OZ/A	PRE									
	AMS	3.7	% V/V	PRE									
11	CHECK UNTREATED				0	33	0	0	0	27	13	33	30
LSD (P=.05)					14.7	29.4	9.2	13.3	0.0	54.6	19.1	31.3	29.4
Standard Deviation					8.6	17.2	5.4	7.8	0.0	32.1	11.2	18.4	17.2
CV					11.73	18.53	6.4	9.74	0.0	50.66	14.98	20.93	20.76
Bartlett's X2					10.689	0.0	8.625	8.424	0.0	8.59	14.096	37.512	29.196
P(Bartlett's X2)					0.298	.	0.281	0.393	.	0.571	0.169	0.001*	0.001*
Replicate F					3.039	1.000	0.644	0.196	0.000	1.530	1.986	0.617	1.188
Replicate Prob(F)					0.0704	0.3855	0.5359	0.8232	1.0000	0.2408	0.1634	0.5497	0.3255
Treatment F					35.072	4.000	82.031	36.505	0.000	1.272	16.498	3.052	3.484
Treatment Prob(F)					0.0001	0.0040	0.0001	0.0001	1.0000	0.3093	0.0001	0.0161	0.0084

Plant and Soil Science, U of KY
Weed Science Research

NO TILL SOYBEAN EARLY PREPLANT

Trial ID: S10020 Protocol ID: DUPONT--USA-113-10-01
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: HELEN FLANIGAN

Pest Type
W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop
Pest Code
STEME, Stellaria media, = US
LAMAM, Lamium amplexicaule, = US
AMBTR, Ambrosia trifida, = US
SETFA, Setaria faberi, = US
CHEAL, Chenopodium album, = US
IPOSS, Ipomoea sp., = US
AMACH, Amaranthus hybridus, = US
Crop Code
GLXMA, BSOY, Glycine max, = US
Rating Unit
PERCENT = percent
ARM Action Codes
P = Rating scale of 0 to 100 (e.g. % control or injury)

Plant and Soil Science, U of KY
Weed Science Research

NO TILL SOYBEAN EARLY PREPLANT

Trial ID: S10020 Protocol ID: DUPONT--USA-113-10-01
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: HELEN FLANIGAN

General Trial Information

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Investigator: Charles H. Slack

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 4-28-2010

Trial Location

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

Personnel

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Affiliation: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING
Location: LEXINGTON, KY
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu
Mobile No.: 859-227-3355
Investigator: Charles H. Slack
Affiliation: University of Kentucky
Location: Lexington, KY
Postal Code: 40546 **E-mail:** cslack@uky.edu

Other Personnel

Role	Name	Other
Research Analyst	Sara Carter	sara.carter@uky.edu

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: ASGROW 3803
BBCH Scale: BSOY **Planting Date:** 5-5-2010
Planting Method: DRILLE drilled **Rate, Unit:** 210000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 7.5 IN
Seed Bed: FINTRA fine/trashy **Soil Temperature, Unit:** 67 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-12-2010

Plant and Soil Science, U of KY
Weed Science Research

Pest Description

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

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

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

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

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

Pest 6 Type: W **Code:** AMACH Amaranthus hybridus
Common Name: Smooth pigweed

Pest 7 Type: W **Code:** IPOSS Ipomoea sp.
Common Name: Morning glory

Site and Design

Plot Width, Unit: 6.67 FT **Site Type:** FIELD field
Plot Length, Unit: 44 FT
Plot Area, Unit: 293.48 FT2 **Tillage Type:** NOTILL no-till
Replications: 3 **Study Design:** RACOBL Randomized Complete Block (RCB)

Soil Description

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

Moisture and Weather Conditions

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

Application Description

	A	B
Application Date:	4-28-2010	5-6-2010
Time of Day:	1 PM	4 PM
Application Method:	SPRAY	SPRAY
Application Timing:	10D	PRE
Application Placement:	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	68 F	74 F
% Relative Humidity:	38	27
Wind Velocity, Unit:	8 MPH	2 MPH
Wind Direction:	W	SW
Soil Temperature, Unit:	53 F	70 F
Soil Moisture:	EXCELL	GOOD
% Cloud Cover:	10	10
Next Rain Occurred On:	5-1-2010	5-8-2010

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY

Plant and Soil Science, U of KY
Weed Science Research

Pest Stage At Each Application

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

Application Equipment

	A	B
Appl. Equipment:	ATV	ATV
Operating Pressure, Unit:	30 PSI	30 PSI
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	8004 DG	8004 DG
Nozzle Spacing, Unit:	20 IN	20 IN
Boom Length, Unit:	6.67 FT	6.67 FT
Boom Height, Unit:	30 IN	30 IN
Ground Speed, Unit:	4 MPH	4 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA
Propellant:	CO2	CO2

Plant and Soil Science, U of KY
Weed Science Research

NO TILL SOYBEAN

Trial ID: S10021 Protocol ID: CHEMINOVA--HGLXMACLOM1001
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: JAMES BARRENTINE

Trt No.	Treatment Name	Rate	Unit	Growth Stage	1	2	3	4	5	6	7	8	9	10
	Pest Type					W Weed	W Weed	W Weed	W Weed		W Weed	W Weed	W Weed	W Weed
	Pest Code					SETFA	AMBTR	CHEAL	IPOSS		SETFA	AMBTR	CHEAL	IPOSS
	Pest Scientific Name					Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.		Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.
	Pest Name					Giant foxtail	Giant ragweed	Common lambsquarters	Morning glory		Giant foxtail	Giant ragweed	Common lambsquarters	Morning glory
	Crop Code				GLXMA					GLXMA				
	BBCH Scale				BSOY					BSOY				
	Crop Scientific Name				Glycine max					Glycine max				
	Crop Name				Soybean					Soybean				
	Rating Date				5-20-2010	5-20-2010	5-20-2010	5-20-2010	5-20-2010	6-4-2010	6-4-2010	6-4-2010	6-4-2010	6-4-2010
	Rating Type				INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
	Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	Number of Subsamples				1	1	1	1	1	1	1	1	1	1
	Rating Timing				2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
	Days After First/Last Applic.				14 14	14 14	14 14	14 14	14 14	29 29	29 29	29 29	29 29	29 29
	Trt-Eval Interval				14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	29 DA-A	29 DA-A	29 DA-A	29 DA-A	29 DA-A
	Plant-Eval Interval				15 DP-1	15 DP-1	15 DP-1	15 DP-1	15 DP-1	30 DP-1	30 DP-1	30 DP-1	30 DP-1	30 DP-1
	Days After Emergence				9 DE-1	9 DE-1	9 DE-1	9 DE-1	9 DE-1	24 DE-	24 DE-	24 DE-	24 DE-	24 DE-
	ARM Action Codes				P	P	P	P	P	P	P	P	P	P
	Number of Decimals				0	0	0	0	0	0	0	0	0	0
1	ALERT	0.375	LB AI/A	PRE	0	99	99	99	99	0	99	77	99	78
	GLYFOS X-TRA	1	LB AI/A	PRE										
	AMS	3.75	% V/V	PRE										
2	ALERT	0.50	LB AI/A	PRE	0	99	99	99	99	0	96	83	99	87
	GLYFOS X-TRA	1	LB AI/A	PRE										
	AMS	3.75	% V/V	PRE										
3	ALERT	0.75	LB AI/A	PRE	0	99	99	99	99	0	99	67	99	88
	GLYFOS X-TRA	1	LB AI/A	PRE										
	AMS	3.75	% V/V	PRE										
4	ALERT	1	LB AI/A	PRE	0	99	99	99	99	0	99	76	99	81
	GLYFOS X-TRA	1	LB AI/A	PRE										
	AMS	3.75	% V/V	PRE										
5	CHA-019	0.75	LB AI/A	PRE	0	99	99	99	99	0	99	73	99	78
	GLYFOS X-TRA	1	LB AI/A	PRE										
	AMS	3.75	% V/V	PRE										
6	CHA-019	1.13	LB AI/A	PRE	0	99	99	99	99	0	99	83	99	78
	GLYFOS X-TRA	1	LB AI/A	PRE										
	AMS	3.75	% V/V	PRE										
7	CHA-021	1	LB AI/A	PRE	0	99	99	99	99	0	99	86	99	85
	GLYFOS X-TRA	1	LB AI/A	PRE										
	AMS	3.75	% V/V	PRE										
8	CHA-021	1.5	LB AI/A	PRE	0	99	99	99	99	0	99	67	99	77
	GLYFOS X-TRA	1	LB AI/A	PRE										
	AMS	3.75	% V/V	PRE										
9	ALERT	0.50	LB AI/A	PRE	0	99	99	99	99	0	96	90	99	88
	DAWN	0.25	LB AI/A	PRE										
	GLYFOS X-TRA	1	LB AI/A	PRE										
	AMS	3.75	% V/V	PRE										

Plant and Soil Science, U of KY
Weed Science Research

Pest Type			W Weed	W Weed	W Weed	W Weed		W Weed	W Weed	W Weed	W Weed
Pest Code			SETFA	AMBTR	CHEAL	IPOSS		SETFA	AMBTR	CHEAL	IPOSS
Pest Scientific Name			Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.		Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.
Pest Name			Giant foxtail	Giant ragweed	Common lambsquarters	Morning glory		Giant foxtail	Giant ragweed	Common lambsquarters	Morning glory
Crop Code			GLXMA				GLXMA				
BBCH Scale			BSOY				BSOY				
Crop Scientific Name			Glycine max				Glycine max				
Crop Name			Soybean				Soybean				
Rating Date			5-20-2010	5-20-2010	5-20-2010	5-20-2010	6-4-2010	6-4-2010	6-4-2010	6-4-2010	6-4-2010
Rating Type			INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit			PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples			1	1	1	1	1	1	1	1	1
Rating Timing			2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
Days After First/Last Applic.			14 14	14 14	14 14	14 14	29 29	29 29	29 29	29 29	29 29
Trt-Eval Interval			14 DA-A	14 DA-A	14 DA-A	14 DA-A	29 DA-A	29 DA-A	29 DA-A	29 DA-A	29 DA-A
Plant-Eval Interval			15 DP-1	15 DP-1	15 DP-1	15 DP-1	30 DP-1	30 DP-1	30 DP-1	30 DP-1	30 DP-1
Days After Emergence			9 DE-1	9 DE-1	9 DE-1	9 DE-1	24 DE-	24 DE-	24 DE-	24 DE-	24 DE-
ARM Action Codes			P	P	P	P	P	P	P	P	P
Number of Decimals			0	0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9	10
10	ALERT	0.50	LB AI/A	PRE	0	99	99	99	99	0	99	99	99	82
	DAWN	0.375	LB AI/A	PRE										
	GLYFOS X-TRA	1	LB AI/A	PRE										
	AMS	3.75	% V/V	PRE										
11	ALERT	0.75	LB AI/A	PRE	0	99	99	99	99	0	99	95	99	88
	DAWN	0.25	LB AI/A	PRE										
	GLYFOS X-TRA	1	LB AI/A	PRE										
	AMS	3.75	% V/V	PRE										
12	ALERT	0.75	LB AI/A	PRE	0	99	99	99	99	0	93	96	99	91
	DAWN	0.375	LB AI/A	PRE										
	GLYFOS X-TRA	1	LB AI/A	PRE										
	AMS	3.75	% V/V	PRE										
13	METRIBUZIN	0.375	LB AI/A	PRE	0	99	99	99	99	0	91	85	99	85
	GLYFOS X-TRA	1	LB AI/A	PRE										
	AMS	3.75	% V/V	PRE										
14	DAWN	0.375	LB AI/A	PRE	0	99	99	99	99	0	99	99	99	77
	GLYFOS X-TRA	1	LB AI/A	PRE										
	AMS	3.75	% V/V	PRE										
15	CHECK UNTREATED				0	99	99	99	99	0	89	67	99	75
	GLYFOS X-TRA	1	LB AI/A	PRE										
	AMS	3.75	% V/V	PRE										
LSD (P=.05)					0.0	0.0	0.0	0.0	0.0	0.0	9.1	24.7	0.0	20.5
Standard Deviation					0.0	0.0	0.0	0.0	0.0	0.0	5.4	14.8	0.0	12.3
CV					0.0	0.0	0.0	0.0	0.0	0.0	5.61	17.86	0.0	14.87
Bartlett's X2					0.0	0.0	0.0	0.0	0.0	0.0	4.061	18.89	0.0	12.485
P(Bartlett's X2)					.	.	.	.	.	.	0.398	0.063	.	0.567
Replicate F					0.000	0.000	0.000	0.000	0.000	0.000	3.070	1.718	0.000	7.205
Replicate Prob(F)					1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0623	0.1977	1.0000	0.0030
Treatment F					0.000	0.000	0.000	0.000	0.000	0.000	1.099	1.839	0.000	0.557
Treatment Prob(F)					1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.4000	0.0828	1.0000	0.8750

Plant and Soil Science, U of KY
Weed Science Research

Pest Type					W Weed	W Weed	W Weed	W -
Pest Code					SETFA	AMBTR	CHEAL	IPOSS
Pest Scientific Name					Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.
Pest Name					Giant foxtail	Giant ragweed	Common lambsquarters	Morning glory
Crop Code				GLXMA				
BBCH Scale				BSOY				
Crop Scientific Name				Glycine max				
Crop Name				Soybean				
Rating Date				7-1-2010	7-1-2010	7-1-2010	7-1-2010	7-1-2010
Rating Type				INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples				1	1	1	1	1
Rating Timing				8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.				56 56	56 56	56 56	56 56	56 56
Trt-Eval Interval				57 DA-A	56 DA-A	56 DA-A	56 DA-A	56 DA-A
Plant-Eval Interval				57 DP-1	57 DP-1	57 DP-1	57 DP-1	57 DP-1
Days After Emergence				51 DE-	51 DE-	51 DE-	51 DE-	51 DE-
ARM Action Codes				P	P	P	P	P
Number of Decimals				0	0	0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	11	12	13	14	15
1	ALERT	0.375	LB AI/A	PRE	0	99	69	99	68
	GLYFOS X-TRA	1	LB AI/A	PRE					
	AMS	3.75	% V/V	PRE					
2	ALERT	0.50	LB AI/A	PRE	0	96	70	99	82
	GLYFOS X-TRA	1	LB AI/A	PRE					
	AMS	3.75	% V/V	PRE					
3	ALERT	0.75	LB AI/A	PRE	0	99	57	99	88
	GLYFOS X-TRA	1	LB AI/A	PRE					
	AMS	3.75	% V/V	PRE					
4	ALERT	1	LB AI/A	PRE	0	99	67	99	67
	GLYFOS X-TRA	1	LB AI/A	PRE					
	AMS	3.75	% V/V	PRE					
5	CHA-019	0.75	LB AI/A	PRE	0	99	53	99	69
	GLYFOS X-TRA	1	LB AI/A	PRE					
	AMS	3.75	% V/V	PRE					
6	CHA-019	1.13	LB AI/A	PRE	0	99	68	99	73
	GLYFOS X-TRA	1	LB AI/A	PRE					
	AMS	3.75	% V/V	PRE					
7	CHA-021	1	LB AI/A	PRE	0	99	70	99	77
	GLYFOS X-TRA	1	LB AI/A	PRE					
	AMS	3.75	% V/V	PRE					
8	CHA-021	1.5	LB AI/A	PRE	0	99	40	99	60
	GLYFOS X-TRA	1	LB AI/A	PRE					
	AMS	3.75	% V/V	PRE					
9	ALERT	0.50	LB AI/A	PRE	0	96	78	99	75
	DAWN	0.25	LB AI/A	PRE					
	GLYFOS X-TRA	1	LB AI/A	PRE					
	AMS	3.75	% V/V	PRE					

Plant and Soil Science, U of KY
Weed Science Research

Pest Type					W Weed	W Weed	W Weed	W -
Pest Code					SETFA	AMBTR	CHEAL	IPOSS
Pest Scientific Name					Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea sp.
Pest Name					Giant foxtail	Giant ragweed	Common lambsquarters	Morning glory
Crop Code				GLXMA				
BBCH Scale				BSOY				
Crop Scientific Name				Glycine max				
Crop Name				Soybean				
Rating Date				7-1-2010	7-1-2010	7-1-2010	7-1-2010	7-1-2010
Rating Type				INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples				1	1	1	1	1
Rating Timing				8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
Days After First/Last Applic.				56 56	56 56	56 56	56 56	56 56
Trt-Eval Interval				57 DA-A	56 DA-A	56 DA-A	56 DA-A	56 DA-A
Plant-Eval Interval				57 DP-1	57 DP-1	57 DP-1	57 DP-1	57 DP-1
Days After Emergence				51 DE-	51 DE-	51 DE-	51 DE-	51 DE-
ARM Action Codes				P	P	P	P	P
Number of Decimals				0	0	0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	11	12	13	14	15
10	ALERT	0.50	LB AI/A	PRE	0	99	90	99	63
	DAWN	0.375	LB AI/A	PRE					
	GLYFOS X-TRA	1	LB AI/A	PRE					
	AMS	3.75	% V/V	PRE					
11	ALERT	0.75	LB AI/A	PRE	0	99	86	99	80
	DAWN	0.25	LB AI/A	PRE					
	GLYFOS X-TRA	1	LB AI/A	PRE					
	AMS	3.75	% V/V	PRE					
12	ALERT	0.75	LB AI/A	PRE	0	93	93	99	87
	DAWN	0.375	LB AI/A	PRE					
	GLYFOS X-TRA	1	LB AI/A	PRE					
	AMS	3.75	% V/V	PRE					
13	METRIBUZIN	0.375	LB AI/A	PRE	0	91	71	99	84
	GLYFOS X-TRA	1	LB AI/A	PRE					
	AMS	3.75	% V/V	PRE					
14	DAWN	0.375	LB AI/A	PRE	0	99	94	99	63
	GLYFOS X-TRA	1	LB AI/A	PRE					
	AMS	3.75	% V/V	PRE					
15	CHECK UNTREATED				0	0	0	0	0
	GLYFOS X-TRA	1	LB AI/A	PRE					
	AMS	3.75	% V/V	PRE					
LSD (P=.05)					0.0	6.2	27.8	0.0	24.7
Standard Deviation					0.0	3.7	16.6	0.0	14.8
CV					0.0	4.1	24.81	0.0	21.42
Bartlett's X2					0.0	1.56	11.755	0.0	10.185
P(Bartlett's X2)					.	0.668	0.466	.	0.679
Replicate F					0.000	2.124	1.272	0.000	4.244
Replicate Prob(F)					1.0000	0.1384	0.2960	1.0000	0.0246
Treatment F					0.000	138.012	6.157	0.000	6.088
Treatment Prob(F)					1.0000	0.0001	0.0001	1.0000	0.0001

Plant and Soil Science, U of KY
Weed Science Research

NO TILL SOYBEAN

Trial ID: S10021 Protocol ID: CHEMINOVA--HGLXMACLOM1001
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: JAMES BARRENTINE

Pest Type
W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop
Pest Code
SETFA, Setaria faberi, = US
AMBTR, Ambrosia trifida, = US
CHEAL, Chenopodium album, = US
IPOSS, Ipomoea sp., = US
Crop Code
GLXMA, BSOY, Glycine max, = US
Rating Unit
PERCENT = percent
Plant-Eval Interval
15 DP-1 = 1 5-5-2010
30 DP-1 = 1 5-5-2010
57 DP-1 = 1 5-5-2010
ARM Action Codes
P = Rating scale of 0 to 100 (e.g. % control or injury)

Plant and Soil Science, U of KY
Weed Science Research

NO TILL SOYBEAN

Trial ID: S10021 Protocol ID: CHEMINOVA--HGLXMACLOM1001
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: JAMES BARRENTINE

General Trial Information

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Investigator: Charles H. Slack

Discipline: H herbicide
Trial Status: F one-year/final

Trial Location

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

Personnel

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Affiliation: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING
Location: LEXINGTON, KY
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu
Mobile No.: 859-227-3355
Investigator: Charles H. Slack
Affiliation: University of Kentucky
Location: Lexington, KY
Postal Code: 40546 **E-mail:** cslack@uky.edu

Other Personnel

Role	Name	Other
Research Analyst	Sara Carter	sara.carter@uky.edu

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AGR 3803
BBCH Scale: BSOY **Planting Date:** 5-5-2010
Planting Method: DRILLE drilled **Rate, Unit:** 210000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 7.5 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 67 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-11-2010

Pest Description

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

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

Pest 3 Type: W **Code:** CHEAL Chenopodium album
Common Name: Common lambsquarters

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

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Site and Design

Plot Width, Unit: 6.67 FT
Plot Length, Unit: 44 FT
Plot Area, Unit: 293.48 FT2
Replications: 3
Site Type: FIELD field
Tillage Type: NOTILL no-till
Study Design: RACOBL Randomized Complete Block (RCB)

Soil Description

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

Moisture and Weather Conditions

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

Application Description

	A
Application Date:	5-6-2010
Time of Day:	4 PM
Application Method:	SPRAY
Application Timing:	PRE
Application Placement:	BROFOL
Applied By:	C H SLACK
Air Temperature, Unit:	74 F
% Relative Humidity:	27
Wind Velocity, Unit:	2 MPH
Wind Direction:	SW
Soil Temperature, Unit:	69 F
Soil Moisture:	GOOD
% Cloud Cover:	10
Next Rain Occurred On:	5-8-2010

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:	CHEAL W
Pest 4 Code, Type, Scale:	IPOSS W

Application Equipment

	A
Appl. Equipment:	ATV
Operating Pressure, Unit:	30 PSI
Nozzle Type:	FLAT FAN
Nozzle Size:	8004 DG
Nozzle Spacing, Unit:	20 IN
Boom Length, Unit:	6.67 FT
Boom Height, Unit:	30 IN
Ground Speed, Unit:	4 MPH
Carrier:	WATER
Spray Volume, Unit:	24 GPA
Propellant:	CO2

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NO TILL SOYBEAN EARLY PREPLANT II

Trial ID: S10022 Protocol ID: CHEMINOVA--HGLXMATAC10011
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: JAMES BARRENTINE

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9
Pest Type					W Weed	W Weed	W Weed	W Weed	W Weed			W Weed	W Weed
Pest Code					STEME	LAMAM	TAROF	AMBTR	ERICA			STEME	LAMAM
Pest Scientific Name					Stellaria media	Lamium amplexicaule	Taraxacum officinale	Ambrosia trifida	Conyza canadensis			Stellaria media	Lamium amplexicaule
Pest Name					Common chickweed	Henbit	Common dandelion	Giant ragweed	Marestail			Common chickweed	Henbit
Crop Code										GLXMA	GLXMA		
BBCH Scale										BSOY	BSOY		
Crop Scientific Name										Glycine max	Glycine max		
Crop Name										Soybean	Soybean		
Rating Type					CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	INJURY	CONTROL	CONTROL
Rating Unit					PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples					1	1	1	1	1	1	1	1	1
Rating Timing					2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK
ARM Action Codes					P	P	P	P	P	P	P	P	P
Number of Decimals					0	0	0	0	0	0	0	0	0
1	TACKLE	1.0313	LB AI/A	2WK EPP	99	99	99	99	95	0	0	99	99
	AMS	2	% W/W	2WK EPP									
	NIS	0.25	% V/V	2WK EPP									
2	TACKLE	1.0313	LB AI/A	2WK EPP	99	99	99	99	99	0	0	99	99
	AMS	2	% W/W	2WK EPP									
	NIS	0.25	% V/V	2WK EPP									
	TACKLE	1.0313	LB AI/A	2-3 WAP									
	AMS	2	% W/W	2-3 WAP									
	NIS	0.25	% V/V	2-3 WAP									
3	GLYFOS X-TRA	0.75	LB AE/A	2WK EPP	99	99	99	99	99	0	0	99	99
	TACKLE	1.0313	LB AI/A	2-3 WAP									
	AMS	2	% W/W	2-3 WAP									
	NIS	0.25	% V/V	2-3 WAP									
4	GLYFOS X-TRA	0.75	LB AE/A	2WK EPP	99	99	99	99	95	0	0	99	99
	TACKLE	2.06	LB AI/A	2-3 WAP									
	AMS	2	% W/W	2-3 WAP									
	NIS	0.25	% V/V	2-3 WAP									
5	GLYFOS X-TRA	0.75	LB AE/A	2WK EPP	99	99	99	99	95	0	0	99	99
	EXTREME	0.81	LB AI/A	2-3 WAP									
	AMS	2	% W/W	2-3 WAP									
	NIS	0.25	% V/V	2-3 WAP									
6	CHECK UNTREATED				0	0	0	0	33	0	0	0	0
LSD (P=.05)					0.0	0.0	0.0	0.0	42.4	0.0	0.0	0.0	0.0
Standard Deviation					0.0	0.0	0.0	0.0	23.3	0.0	0.0	0.0	0.0
CV					0.0	0.0	0.0	0.0	27.13	0.0	0.0	0.0	0.0
Bartlett's X2					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P(Bartlett's X2)					.	.	.	.	.	.	.	.	.
Replicate F					0.000	0.000	0.000	0.000	1.000	0.000	0.000	0.000	0.000
Replicate Prob(F)					1.0000	1.0000	1.0000	1.0000	0.4019	1.0000	1.0000	1.0000	1.0000
Treatment F					0.000	0.000	0.000	0.000	3.736	0.000	0.000	0.000	0.000
Treatment Prob(F)					1.0000	1.0000	1.0000	1.0000	0.0362	1.0000	1.0000	1.0000	1.0000

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Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	10	11	12	13	14	15	16	17	18
	Pest Type				W Weed	W Weed	W Weed		W Weed	W Weed	W Weed	W Weed	W Weed
	Pest Code				TAROF	AMBTR	ERICA		STEME	LAMAM	TAROF	AMBTR	ERICA
	Pest Scientific Name				Taraxacum officinale	Ambrosia trifida	Conyza canadensis		Stellaria media	Lamium amplexicaule	Taraxacum officinale	Ambrosia trifida	Conyza canadensis
	Pest Name				Common dandelion	Giant ragweed	Marestail		Common chickweed	Henbit	Common dandelion	Giant ragweed	Marestail
	Crop Code							GLXMA					
	BBCH Scale							BSOY					
	Crop Scientific Name							Glycine max					
	Crop Name							Soybean					
	Rating Type				CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
	Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	Number of Subsamples				1	1	1	1	1	1	1	1	1
	Rating Timing				4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
	ARM Action Codes				P	P	P	P	P	P	P	P	P
	Number of Decimals				0	0	0	0	0	0	0	0	0
1	TACKLE	1.0313	LB AI/A	2WK EPP	99	67	95	0	99	99	99	67	95
	AMS	2	% W/W	2WK EPP									
	NIS	0.25	% V/V	2WK EPP									
2	TACKLE	1.0313	LB AI/A	2WK EPP	99	99	99	0	99	99	99	99	99
	AMS	2	% W/W	2WK EPP									
	NIS	0.25	% V/V	2WK EPP									
	TACKLE	1.0313	LB AI/A	2-3 WAP									
	AMS	2	% W/W	2-3 WAP									
	NIS	0.25	% V/V	2-3 WAP									
3	GLYFOS X-TRA	0.75	LB AE/A	2WK EPP	99	99	96	0	99	99	99	99	96
	TACKLE	1.0313	LB AI/A	2-3 WAP									
	AMS	2	% W/W	2-3 WAP									
	NIS	0.25	% V/V	2-3 WAP									
4	GLYFOS X-TRA	0.75	LB AE/A	2WK EPP	99	99	95	0	99	99	99	99	95
	TACKLE	2.06	LB AI/A	2-3 WAP									
	AMS	2	% W/W	2-3 WAP									
	NIS	0.25	% V/V	2-3 WAP									
5	GLYFOS X-TRA	0.75	LB AE/A	2WK EPP	99	99	95	0	99	99	99	99	95
	EXTREME	0.81	LB AI/A	2-3 WAP									
	AMS	2	% W/W	2-3 WAP									
	NIS	0.25	% V/V	2-3 WAP									
6	CHECK UNTREATED				0	0	0	0	0	0	0	0	0
LSD (P=.05)					0.0	4.3	3.9	0.0	0.0	0.0	0.0	4.3	3.9
Standard Deviation					0.0	2.4	2.1	0.0	0.0	0.0	0.0	2.4	2.1
CV					0.0	3.06	2.65	0.0	0.0	0.0	0.0	3.06	2.65
Bartlett's X2					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P(Bartlett's X2)					.	.	.	.	.	.	.	.	.
Replicate F					0.000	1.000	1.000	0.000	0.000	0.000	0.000	1.000	1.000
Replicate Prob(F)					1.0000	0.4019	0.4019	1.0000	1.0000	1.0000	1.0000	0.4019	0.4019
Treatment F					0.000	860.944	1025.600	0.000	0.000	0.000	0.000	860.944	1025.600
Treatment Prob(F)					1.0000	0.0001	0.0001	1.0000	1.0000	1.0000	1.0000	0.0001	0.0001

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NO TILL SOYBEAN EARLY PREPLANT II

Trial ID: S10022 Protocol ID: CHEMINOVA--HGLXMATAC10011
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: JAMES BARRENTINE

Pest Type
W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop
Pest Code
STEME, Stellaria media, = US
LAMAM, Lamium amplexicaule, = US
TAROF, Taraxacum officinale, = US
AMBTR, Ambrosia trifida, = US
ERICA, Conyza canadensis, = US
Crop Code
GLXMA, BSOY, Glycine max, = US
Rating Unit
PERCENT = percent
ARM Action Codes
P = Rating scale of 0 to 100 (e.g. % control or injury)

Plant and Soil Science, U of KY
Weed Science Research

NO TILL SOYBEAN EARLY PREPLANT II

Trial ID: S10022 Protocol ID: CHEMINOVA--HGLXMATAC10011
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: JAMES BARRENTINE

General Trial Information

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Investigator: Charles H. Slack

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 4-19-2010

Trial Location

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

Personnel

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Affiliation: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING
Location: LEXINGTON, KY
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu
Mobile No.: 859-227-3355
Investigator: Charles H. Slack
Affiliation: University of Kentucky
Location: Lexington, KY
Postal Code: 40546 **E-mail:** cslack@uky.edu

Other Personnel

Role	Name	Other
Research Analyst	Sara Carter	sara.carter@uky.edu

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AGR 3803
BBCH Scale: BSOY **Planting Date:** 5-5-2010
Planting Method: DRILLE drilled **Rate, Unit:** 210000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 7.5 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 67 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-11-2010

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Pest Description

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

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

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

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

Pest 5 Type: W **Code:** ERICA Conyza canadensis
Common Name: Marestail

Site and Design

Plot Width, Unit: 6.66 FT **Site Type:** FIELD field
Plot Length, Unit: 44 FT
Plot Area, Unit: 293.04 FT2 **Tillage Type:** NOTILL no-till
Replications: 3 **Study Design:** RACOBL Randomized Complete Block (RCB)

Soil Description

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

Moisture and Weather Conditions

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

Application Description

	A	B
Application Date:	4-19-2010	5-24-2010
Time of Day:	10 AM	2 PM
Application Method:	SPRAY	SPRAY
Application Timing:	2WK EPP	3WAP
Application Placement:	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	54 F	82 F
% Relative Humidity:	51	47
Wind Velocity, Unit:	6 MPH	8 MPH
Wind Direction:	ENE	ENE
Soil Temperature, Unit:	54 F	68 F
Soil Moisture:	SLIWET	GOOD
% Cloud Cover:	10	20
Next Rain Occurred On:	4-20-2010	5-30-2010

Crop Stage At Each Application

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

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Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	STEME W	STEME W
Height, Unit:	4 IN	
Pest 2 Code, Type, Scale:	LAMAM W	LAMAM W
Height, Unit:	3 IN	
Pest 3 Code, Type, Scale:	TAROF W	TAROF W
Height, Unit:	3 IN	3 IN
Pest 4 Code, Type, Scale:	AMBTR W	AMBTR W
Height, Unit:		3 IN
Pest 5 Code, Type, Scale:	ERICA W	ERICA W
Height, Unit:		2 IN

Application Equipment

	A	B
Appl. Equipment:	ATV	ATV
Operating Pressure, Unit:	30 PSI	30 PSI
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	8004 DG	8004 DG
Nozzle Spacing, Unit:	20 IN	20 IN
Boom Length, Unit:	6.67 FT	6.67 FT
Boom Height, Unit:	30 IN	30 IN
Ground Speed, Unit:	4 MPH	4 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA
Propellant:	CO2	CO2

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NO TILL SOYBEAN II

Trial ID: S10023 Protocol ID: S10023
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: SCOTT CULLY

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9	10	11
	Pest Type					W Weed	W Weed	W Weed	W Weed		W Weed	W Weed	W Weed	W Weed	
	Pest Code					SETFA	AMBTR	ERICA	IPOSS		SETFA	AMBTR	ERICA	IPOSS	
	Pest Scientific Name					Setaria faberi	Ambrosia trifida	Conyza canadensis	Ipomoea sp.		Setaria faberi	Ambrosia trifida	Conyza canadensis	Ipomoea sp.	
	Pest Name					Giant foxtail	Giant ragweed	Marestail	Morning glory		Giant foxtail	Giant ragweed	Marestail	Morning glory	
	Crop Code				GLXMA					GLXMA					GLXMA
	BBCH Scale				BSOY					BSOY					BSOY
	Crop Scientific Name				Glycine max					Glycine max					Glycine max
	Crop Name				Soybean					Soybean					Soybean
	Rating Type				INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
	Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	Number of Subsamples				1	1	1	1	1	1	1	1	1	1	1
	Rating Timing				2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK
	ARM Action Codes				P	P	P	P	P	P	P	P	P	P	P
	Number of Decimals				0	0	0	0	0	0	0	0	0	0	0
1	CHECK UNTREATED				0	0	0	0	0	0	0	0	0	0	0
	TOUCHDOWN TOTAL	24	OZ/A	PRE											
	N-PAK AMS LIQUID	2.5	% V/V	PRE											
2	PREFIX	2	PT/A	PRE	0	99	99	99	99	0	99	99	99	99	0
	TOUCHDOWN TOTAL	24	FL OZ/A	PRE											
	N-PAK AMS LIQUID	2.5	% V/V	PRE											
	TOUCHDOWN TOTAL	24	FL OZ/A	PRE											
	N-PAK AMS LIQUID	2.5	% V/V	PRE											
	TOUCHDOWN TOTAL	24	FL OZ/A	MP											
	N-PAK AMS LIQUID	2.5	% V/V	MP											
3	BOUNDARY	1.5	PT/A	PRE	0	99	99	96	99	0	99	95	96	99	0
	TOUCHDOWN TOTAL	24	FL OZ/A	PRE											
	N-PAK AMS LIQUID	2.5	% V/V	PRE											
	TOUCHDOWN TOTAL	24	FL OZ/A	MP											
	N-PAK AMS LIQUID	2.5	% V/V	MP											
4	TOUCHDOWN TOTAL	24	FL OZ/A	EP	0	99	99	99	99	0	99	99	99	99	0
	N-PAK AMS LIQUID	2.5	% V/V	EP											
	TOUCHDOWN TOTAL	24	FL OZ/A	LP											
	N-PAK AMS LIQUID	2.5	% V/V	LP											
5	TOUCHDOWN TOTAL	24	FL OZ/A	PRE	0	99	99	99	99	0	99	96	99	99	0
	N-PAK AMS LIQUID	2.5	% V/V	PRE											
	TOUCHDOWN TOTAL	24	FL OZ/A	MP											
	N-PAK AMS LIQUID	2.5	% V/V	MP											
6	TOUCHDOWN TOTAL	24	FL OZ/A	PRE	0	99	99	96	99	0	99	99	96	99	0
	N-PAK AMS LIQUID	2.5	% V/V	PRE											
	PREFIX	2	PT/A	EP											
	TOUCHDOWN TOTAL	24	FL OZ/A	EP											
	N-PAK AMS LIQUID	2.5	% V/V	EP											
	TOUCHDOWN TOTAL	24	FL OZ/A	LP											
	N-PAK AMS LIQUID	2.5	% V/V	LP											

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Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9	10	11
	Pest Type					W Weed	W Weed	W Weed	W Weed		W Weed	W Weed	W Weed	W Weed	
	Pest Code					SETFA	AMBTR	ERICA	IPOSS		SETFA	AMBTR	ERICA	IPOSS	
	Pest Scientific Name					Setaria faberi	Ambrosia trifida	Conyza canadensis	Ipomoea sp.		Setaria faberi	Ambrosia trifida	Conyza canadensis	Ipomoea sp.	
	Pest Name					Giant foxtail	Giant ragweed	Marestail	Morning glory		Giant foxtail	Giant ragweed	Marestail	Morning glory	
	Crop Code				GLXMA					GLXMA					GLXMA
	BBCH Scale				BSOY					BSOY					BSOY
	Crop Scientific Name				Glycine max					Glycine max					Glycine max
	Crop Name				Soybean					Soybean					Soybean
	Rating Type				INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
	Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	Number of Subsamples				1	1	1	1	1	1	1	1	1	1	1
	Rating Timing				2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK
	ARM Action Codes				P	P	P	P	P	P	P	P	P	P	P
	Number of Decimals				0	0	0	0	0	0	0	0	0	0	0
7	BOUNDARY	1.5	PT/A	PRE	0	99	99	99	99	0	99	99	99	96	0
	TOUCHDOWN TOTAL	24	FL OZ/A	PRE											
	N-PAK AMS LIQUID	2.5	% V/V	PRE											
	TOUCHDOWN TOTAL	24	FL OZ/A	MP											
	N-PAK AMS LIQUID	2.5	% V/V	MP											
8	TOUCHDOWN TOTAL	24	FL OZ/A	PRE	0	99	99	99	99	0	99	99	99	99	0
	N-PAK AMS LIQUID	2.5	% V/V	PRE											
	FLEXSTAR GT	2.25	PT/A	EP											
	N-PAK AMS LIQUID	2.5	% V/V	EP											
	FLEXSTAR GT	2.25	PT/A	LP											
	N-PAK AMS LIQUID	2.5	% V/V	LP											
9	VALOR XLT	3	OZ/A	PRE	0	99	99	99	99	0	99	99	99	99	0
	TOUCHDOWN TOTAL	24	FL OZ/A	PRE											
	N-PAK AMS LIQUID	2.5	% V/V	PRE											
	ROUNDUP POWERMAX	22	FL OZ/A	MP											
	N-PAK AMS LIQUID	2.5	% V/V	MP											
10	ROUNDUP POWERMAX	22	OZ/A	PRE	0	99	99	99	99	0	99	99	99	99	0
	AMS	3.75	% V/V	PRE											
	MON 63410	3	PT/A	EP											
	ROUNDUP POWERMAX	22	FL OZ/A	EP											
	N-PAK AMS LIQUID	2.5	% V/V	EP											
	ROUNDUP POWERMAX	22	FL OZ/A	LP											
	N-PAK AMS LIQUID	2.5	% V/V	LP											
11	SONIC	3.22	OZ/A	PRE	0	99	99	99	99	0	99	93	99	96	0
	DURANGO DMA	24	FL OZ/A	PRE											
	N-PAK AMS LIQUID	2.5	% V/V	PRE											
	DURANGO DMA	24	FL OZ/A	MP											
	N-PAK AMS LIQUID	2.5	% V/V	MP											
12	OPTILL	1.5	OZ/A	PRE	0	99	99	99	99	0	99	90	99	93	0
	TOUCHDOWN TOTAL	24	FL OZ/A	PRE											
	N-PAK AMS LIQUID	2.5	% V/V	PRE											
	ROUNDUP POWERMAX	22	FL OZ/A	MP											
	N-PAK AMS LIQUID	2.5	% V/V	MP											
13	FIERCE	3	OZ/A	PRE	0	99	86	86	83	0	99	57	80	63	0
	TOUCHDOWN TOTAL	24	FL OZ/A	PRE											
	N-PAK AMS LIQUID	2.5	% V/V	PRE											

Plant and Soil Science, U of KY
Weed Science Research

Pest Type				W Weed	W Weed	W Weed	W Weed		W Weed	W Weed	W Weed	W Weed	
Pest Code				SETFA	AMBTR	ERICA	IPOSS		SETFA	AMBTR	ERICA	IPOSS	
Pest Scientific Name				Setaria faberi	Ambrosia trifida	Conyza canadensis	Ipomoea sp.		Setaria faberi	Ambrosia trifida	Conyza canadensis	Ipomoea sp.	
Pest Name				Giant foxtail	Giant ragweed	Marestail	Morning glory		Giant foxtail	Giant ragweed	Marestail	Morning glory	
Crop Code			GLXMA					GLXMA					GLXMA
BBCH Scale			BSOY					BSOY					BSOY
Crop Scientific Name			Glycine max					Glycine max					Glycine max
Crop Name			Soybean					Soybean					Soybean
Rating Type			INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit			PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples			1	1	1	1	1	1	1	1	1	1	1
Rating Timing			2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK
ARM Action Codes			P	P	P	P	P	P	P	P	P	P	P
Number of Decimals			0	0	0	0	0	0	0	0	0	0	0
Trt No.	Treatment Name	Rate / Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9	10	11
14	VALOR XLT	2 OZ/A	PRE	0	93	93	93	96	0	93	75	93	77	0
	TOUCHDOWN TOTAL	24 FL OZ/A	PRE											
	N-PAK AMS LIQUID	2.5 % V/V	PRE											
LSD (P=.05)				0.0	2.3	7.0	7.9	6.9	0.0	2.3	6.8	12.5	7.2	0.0
Standard Deviation				0.0	1.4	4.2	4.7	4.1	0.0	1.4	4.0	7.4	4.3	0.0
CV				0.0	1.52	4.62	5.2	4.52	0.0	1.52	4.7	8.28	4.94	0.0
Bartlett's X2				0.0	0.0	1.855	3.839	1.832	0.0	0.0	4.243	8.778	2.32	0.0
P(Bartlett's X2)				.	.	0.173	0.279	0.176	.	.	0.374	0.032*	0.677	.
Replicate F				0.000	1.000	1.145	0.696	1.536	0.000	1.000	0.218	0.795	0.422	0.000
Replicate Prob(F)				1.0000	0.3816	0.3337	0.5077	0.2341	1.0000	0.3816	0.8059	0.4622	0.6602	1.0000
Treatment F				0.000	1082.846	118.893	93.591	124.714	0.000	1082.846	139.730	37.698	119.882	0.000
Treatment Prob(F)				1.0000	0.0001	0.0001	0.0001	0.0001	1.0000	0.0001	0.0001	0.0001	0.0001	1.0000

Plant and Soil Science, U of KY
Weed Science Research

Pest Type			W Weed	W Weed	W Weed	W Weed
Pest Code			SETFA	AMBTR	ERICA	IPOSS
Pest Scientific Name			Setaria faberi	Ambrosia trifida	Conyza canadensis	Ipomoea sp.
Pest Name			Giant foxtail	Giant ragweed	Marestail	Morning glory
Crop Code						
BBCH Scale						
Crop Scientific Name						
Crop Name						
Rating Type			CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit			PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples			1	1	1	1
Rating Timing			8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes			P	P	P	P
Number of Decimals			0	0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	12	13	14	15
1	CHECK UNTREATED				0	0	0	0
	TOUCHDOWN TOTAL	24	OZ/A	PRE				
	N-PAK AMS LIQUID	2.5	% V/V	PRE				
2	PREFIX	2	PT/A	PRE	99	99	99	99
	TOUCHDOWN TOTAL	24	FL OZ/A	PRE				
	N-PAK AMS LIQUID	2.5	% V/V	PRE				
	TOUCHDOWN TOTAL	24	FL OZ/A	PRE				
	N-PAK AMS LIQUID	2.5	% V/V	PRE				
	TOUCHDOWN TOTAL	24	FL OZ/A	MP				
	N-PAK AMS LIQUID	2.5	% V/V	MP				
3	BOUNDARY	1.5	PT/A	PRE	99	95	96	99
	TOUCHDOWN TOTAL	24	FL OZ/A	PRE				
	N-PAK AMS LIQUID	2.5	% V/V	PRE				
	TOUCHDOWN TOTAL	24	FL OZ/A	MP				
	N-PAK AMS LIQUID	2.5	% V/V	MP				
4	TOUCHDOWN TOTAL	24	FL OZ/A	EP	99	99	99	99
	N-PAK AMS LIQUID	2.5	% V/V	EP				
	TOUCHDOWN TOTAL	24	FL OZ/A	LP				
	N-PAK AMS LIQUID	2.5	% V/V	LP				
5	TOUCHDOWN TOTAL	24	FL OZ/A	PRE	99	96	99	99
	N-PAK AMS LIQUID	2.5	% V/V	PRE				
	TOUCHDOWN TOTAL	24	FL OZ/A	MP				
	N-PAK AMS LIQUID	2.5	% V/V	MP				
6	TOUCHDOWN TOTAL	24	FL OZ/A	PRE	99	99	96	99
	N-PAK AMS LIQUID	2.5	% V/V	PRE				
	PREFIX	2	PT/A	EP				
	TOUCHDOWN TOTAL	24	FL OZ/A	EP				
	N-PAK AMS LIQUID	2.5	% V/V	EP				
	TOUCHDOWN TOTAL	24	FL OZ/A	LP				
	N-PAK AMS LIQUID	2.5	% V/V	LP				

Plant and Soil Science, U of KY
Weed Science Research

Pest Type				W Weed	W Weed	W Weed	W Weed	
Pest Code				SETFA	AMBTR	ERICA	IPOSS	
Pest Scientific Name				Setaria faberi	Ambrosia trifida	Conyza canadensis	Ipomoea sp.	
Pest Name				Giant foxtail	Giant ragweed	Marestail	Morning glory	
Crop Code								
BBCH Scale								
Crop Scientific Name								
Crop Name								
Rating Type				CONTROL	CONTROL	CONTROL	CONTROL	
Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	
Number of Subsamples				1	1	1	1	
Rating Timing				8 WEEK	8 WEEK	8 WEEK	8 WEEK	
ARM Action Codes				P	P	P	P	
Number of Decimals				0	0	0	0	
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	12	13	14	15
7	BOUNDARY	1.5	PT/A	PRE	99	99	99	96
	TOUCHDOWN TOTAL	24	FL OZ/A	PRE				
	N-PAK AMS LIQUID	2.5	% V/V	PRE				
	TOUCHDOWN TOTAL	24	FL OZ/A	MP				
	N-PAK AMS LIQUID	2.5	% V/V	MP				
8	TOUCHDOWN TOTAL	24	FL OZ/A	PRE	99	99	99	99
	N-PAK AMS LIQUID	2.5	% V/V	PRE				
	FLEXSTAR GT	2.25	PT/A	EP				
	N-PAK AMS LIQUID	2.5	% V/V	EP				
	FLEXSTAR GT	2.25	PT/A	LP				
	N-PAK AMS LIQUID	2.5	% V/V	LP				
9	VALOR XLT	3	OZ/A	PRE	99	99	99	99
	TOUCHDOWN TOTAL	24	FL OZ/A	PRE				
	N-PAK AMS LIQUID	2.5	% V/V	PRE				
	ROUNDUP POWERMAX	22	FL OZ/A	MP				
	N-PAK AMS LIQUID	2.5	% V/V	MP				
10	ROUNDUP POWERMAX	22	OZ/A	PRE	99	99	99	99
	AMS	3.75	% V/V	PRE				
	MON 63410	3	PT/A	EP				
	ROUNDUP POWERMAX	22	FL OZ/A	EP				
	N-PAK AMS LIQUID	2.5	% V/V	EP				
	ROUNDUP POWERMAX	22	FL OZ/A	LP				
	N-PAK AMS LIQUID	2.5	% V/V	LP				
11	SONIC	3.22	OZ/A	PRE	99	93	99	96
	DURANGO DMA	24	FL OZ/A	PRE				
	N-PAK AMS LIQUID	2.5	% V/V	PRE				
	DURANGO DMA	24	FL OZ/A	MP				
	N-PAK AMS LIQUID	2.5	% V/V	MP				
12	OPTILL	1.5	OZ/A	PRE	99	90	99	93
	TOUCHDOWN TOTAL	24	FL OZ/A	PRE				
	N-PAK AMS LIQUID	2.5	% V/V	PRE				
	ROUNDUP POWERMAX	22	FL OZ/A	MP				
	N-PAK AMS LIQUID	2.5	% V/V	MP				
13	FIERCE	3	OZ/A	PRE	99	57	80	63
	TOUCHDOWN TOTAL	24	FL OZ/A	PRE				
	N-PAK AMS LIQUID	2.5	% V/V	PRE				

Plant and Soil Science, U of KY
Weed Science Research

Pest Type			W Weed	W Weed	W Weed	W Weed
Pest Code			SETFA	AMBTR	ERICA	IPOSS
Pest Scientific Name			Setaria faberi	Ambrosia trifida	Conyza canadensis	Ipomoea sp.
Pest Name			Giant foxtail	Giant ragweed	Marestail	Morning glory
Crop Code						
BBCH Scale						
Crop Scientific Name						
Crop Name						
Rating Type			CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit			PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples			1	1	1	1
Rating Timing			8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes			P	P	P	P
Number of Decimals			0	0	0	0
Trt No.	Treatment Name	Rate / Rate Unit	Growth Stage	12	13	14	15
14	VALOR XLT	2 OZ/A	PRE	93	308	93	77
	TOUCHDOWN TOTAL	24 FL OZ/A	PRE				
	N-PAK AMS LIQUID	2.5 % V/V	PRE				
LSD (P=.05)				2.3	181.5	12.5	7.2
Standard Deviation				1.4	108.1	7.4	4.3
CV				1.52	105.68	8.28	4.94
Bartlett's X2				0.0	50.423	8.778	2.32
P(Bartlett's X2)				.	0.001*	0.032*	0.677
Replicate F				1.000	0.996	0.795	0.422
Replicate Prob(F)				0.3816	0.3831	0.4622	0.6602
Treatment F				1082.846	1.094	37.698	119.882
Treatment Prob(F)				0.0001	0.4054	0.0001	0.0001

Plant and Soil Science, U of KY
Weed Science Research

NO TILL SOYBEAN II

Trial ID: S10023 Protocol ID: S10023
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H 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
ERICA, Conyza canadensis, = US
IPOSS, Ipomoea sp., = US
Crop Code
GLXMA, BSOY, Glycine max, = US
Rating Unit
PERCENT = percent
ARM Action Codes
P = Rating scale of 0 to 100 (e.g. % control or injury)

Plant and Soil Science, U of KY
Weed Science Research

NO TILL SOYBEAN II

Trial ID: S10023 Protocol ID: S10023
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: SCOTT CULLY

General Trial Information

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Investigator: Charles H. Slack

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5-5-2010

Trial Location

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

Personnel

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Affiliation: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING
Location: LEXINGTON, KY
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu
Mobile No.: 859-227-3355
Investigator: Charles H. Slack
Affiliation: University of Kentucky
Location: Lexington, KY
Postal Code: 40546 **E-mail:** cslack@uky.edu

Other Personnel

Role	Name	Other
Research Analyst	Sara Carter	sara.carter@uky.edu

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG 3803
BBCH Scale: BSOY **Planting Date:** 5-5-2010
Planting Method: DRILLE drilled **Rate, Unit:** 210000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 7.5 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 65 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-11-2010

Pest Description

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

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

Pest 3 Type: W **Code:** ERICA Conyza canadensis
Common Name: Marestail

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

Plant and Soil Science, U of KY
Weed Science Research

Site and Design

Plot Width, Unit: 6.67 FT **Site Type:** FIELD field
Plot Length, Unit: 44 FT
Plot Area, Unit: 293.48 FT2 **Tillage Type:** NOTILL no-till
Replications: 3 **Study Design:** RACOBL Randomized Complete Block (RCB)

Soil Description

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

Moisture and Weather Conditions

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

Application Description

	A	B	C	D
Application Date:	5-6-2010	5-26-2010	6-4-2010	6-16-2010
Time of Day:	4 PM	3 PM	11 AM	2 PM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	EP	MP	LP
Application Placement:	BROFOL	BROFOL	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	C H SLACK	SARA CARTER
Air Temperature, Unit:	74 F	83 F	80 F	88 F
% Relative Humidity:	27	46	50	50
Wind Velocity, Unit:	2 MPH	7 MPH	6 MPH	4 MPH
Wind Direction:	SW	NNW	SW	SW
Soil Temperature, Unit:	68 F	71 F	72 F	76 F
Soil Moisture:	GOOD	GOOD	GOOD	GOOD
% Cloud Cover:	10	10	20	10
Next Rain Occurred On:	5-8-2010	5-30-2010	6-6-2010	6-19-2010

Crop Stage At Each Application

	A	B	C	D
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
Height, Unit:		4 IN	5 IN	6 IN

Pest Stage At Each Application

	A	B	C	D
Pest 1 Code, Type, Scale:	SETFA W	SETFA W	SETFA W	SETFA W
Height, Unit:		2.5 IN	3 IN	4 IN
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W	AMBTR W
Height, Unit:		3 IN	4 IN	6 IN
Pest 3 Code, Type, Scale:	ERICA W	ERICA W	ERICA W	ERICA W
Height, Unit:		2 IN	3 IN	4 IN
Pest 4 Code, Type, Scale:	IPOSS W	IPOSS W	IPOSS W	IPOSS W
Height, Unit:		1 IN	2 IN	4 IN

Plant and Soil Science, U of KY
Weed Science Research

Application Equipment

	A	B	C	D
Appl. Equipment:	ATV	ATV	ATV	BACKPACK
Operating Pressure, Unit:	30 PSI	30 PSI	30 PSI	30 PSI
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN
Nozzle Size:	8004 DG	8004 DG	8004 DG	8004 DG
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN	20 IN
Boom Length, Unit:	6.67 FT	6.67 FT	6.67 FT	6.67 FT
Boom Height, Unit:	30 IN	30 IN	30 IN	30 IN
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH	4 MPH
Carrier:	WATER	WATER	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA	24 GPA	24 GPA
Propellant:	CO2	CO2	CO2	CO2

Plant and Soil Science, U of KY
Weed Science Research

NO TILL SOYBEAN POSTEMERGENCE

Trial ID: S10024 Protocol ID: CHEMINOVA--HGLXAFOMME1001
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: JAMES BARRENTINE

Pest Type				W Weed	W Weed	W Weed	W Weed			W Weed	W Weed	W Weed	W Weed										
Pest Code				SETFA	AMBTR	ERICA	IPOSS			SETFA	AMBTR	ERICA	IPOSS										
Pest Scientific Name				Setaria faberi	Ambrosia trifida	Conyza canadensis	Ipomoea sp.			Setaria faberi	Ambrosia trifida	Conyza canadensis	Ipomoea sp.										
Pest Name				Giant foxtail	Giant ragweed	Marestail	Morning glory			Giant foxtail	Giant ragweed	Marestail	Morning glory										
Crop Code			GLXMA						GLXMA						GLXMA								
BBCH Scale			BSOY						BSOY						BSOY								
Crop Scientific Name			Glycine max						Glycine max						Glycine max								
Crop Name			Soybean						Soybean						Soybean								
Rating Type			INJURY	CONTROL	CONTROL	CONTROL	CONTROL		INJURY	CONTROL	CONTROL	CONTROL	CONTROL		INJURY								
Rating Unit			PERCENT	PERCENT	PERCENT	PERCENT	PERCENT		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT		PERCENT								
Number of Subsamples			1	1	1	1	1		1	1	1	1	1		1								
Rating Timing			2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK		4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK		8 WEEK								
ARM Action Codes			P	P	P	P	P		P	P	P	P	P		P								
Number of Decimals			0	0	0	0	0		0	0	0	0	0		0								
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9	10	11								
1	RHYTHM	0.147	LB AI/A	EP	0	63	99	80	99	0	99	92	78	96	0								
	AMS	2.5	% V/V	EP																			
	SELECT	0.125	LB AI/A	LP																			
	GLYFOS X-TRA	1	LB AI/A	PRE																			
	AMS	3.75	% V/V	PRE																			
2	RHYTHM	0.294	LB AI/A	EP	0	63	99	82	99	0	99	98	82	93	0								
	AMS	2.5	% V/V	EP																			
	SELECT	0.125	LB AI/A	LP																			
	GLYFOS X-TRA	1	LB AI/A	PRE																			
	AMS	3.75	% V/V	PRE																			
3	RHYTHM	0.588	LB AI/A	EP	0	63	99	84	99	0	99	99	84	92	0								
	AMS	2.5	% V/V	EP																			
	SELECT	0.125	LB AI/A	LP																			
	GLYFOS X-TRA	1	LB AI/A	PRE																			
	AMS	3.75	% V/V	PRE																			
4	RHYTHM	0.147	LB AI/A	EP	0	99	99	98	99	0	99	92	96	89	0								
	GLYFOS X-TRA	0.75	LB AE/A	EP																			
	GLYFOS X-TRA	1	LB AI/A	PRE																			
	AMS	3.75	% V/V	PRE																			
5	RHYTHM	0.294	LB AI/A	EP	0	99	99	88	99	0	99	99	85	90	0								
	GLYFOS X-TRA	0.75	LB AE/A	EP																			
	GLYFOS X-TRA	1	LB AI/A	PRE																			
	AMS	3.75	% V/V	PRE																			
6	DAWN	0.375	LB AI/A	EP	0	93	99	88	99	0	99	99	88	95	0								
	NIS	0.25	% V/V	EP																			
	SELECT	0.125	LB AI/A	LP																			
	GLYFOS X-TRA	1	LB AI/A	PRE																			
	AMS	3.75	% V/V	PRE																			
7	FLEXSTAR	0.147	LB AI/A	EP	0	89	99	80	99	0	99	99	80	92	0								
	AMS	2.5	% V/V	EP																			
	SELECT	0.125	LB AI/A	LP																			
	GLYFOS X-TRA	1	LB AI/A	PRE																			
	AMS	3.75	% V/V	PRE																			

Plant and Soil Science, U of KY
Weed Science Research

Pest Type				W Weed	W Weed	W Weed	W Weed		W Weed	W Weed	W Weed	W Weed	
Pest Code				SETFA	AMBTR	ERICA	IPOSS		SETFA	AMBTR	ERICA	IPOSS	
Pest Scientific Name				Setaria faberi	Ambrosia trifida	Conyza canadensis	Ipomoea sp.		Setaria faberi	Ambrosia trifida	Conyza canadensis	Ipomoea sp.	
Pest Name				Giant foxtail	Giant ragweed	Marestail	Morning glory		Giant foxtail	Giant ragweed	Marestail	Morning glory	
Crop Code				GLXMA				GLXMA					GLXMA
BBCH Scale				BSOY				BSOY					BSOY
Crop Scientific Name				Glycine max				Glycine max					Glycine max
Crop Name				Soybean				Soybean					Soybean
Rating Type				INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples				1	1	1	1	1	1	1	1	1	1
Rating Timing				2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK
ARM Action Codes				P	P	P	P	P	P	P	P	P	P
Number of Decimals				0	0	0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9	10	11
8	FLEXSTAR	0.294	LB AI/A	EP	0	77	99	92	99	0	99	99	89	95	0
	AMS	2.5	% V/V	EP											
	SELECT	0.125	LB AI/A	LP											
	GLYFOS X-TRA	1	LB AI/A	PRE											
	AMS	3.75	% V/V	PRE											
9	CHECK UNTREATED				0	0	0	0	0	0	0	0	0	0	0
	GLYFOS X-TRA	1	LB AI/A	PRE											
	AMS	3.75	% V/V	PRE											
LSD (P=.05)					0.0	14.7	0.0	12.2	0.0	0.0	0.0	4.6	11.6	5.2	0.0
Standard Deviation					0.0	8.5	0.0	7.1	0.0	0.0	0.0	2.6	6.7	3.0	0.0
CV					0.0	11.83	0.0	9.2	0.0	0.0	0.0	3.07	8.83	3.62	0.0
Bartlett's X2					0.0	3.791	0.0	7.393	0.0	0.0	0.0	1.658	3.374	4.091	0.0
P(Bartlett's X2)					.	0.58	.	0.286	.	.	.	0.436	0.761	0.664	.
Replicate F					0.000	9.162	0.000	0.918	0.000	0.000	0.000	2.557	1.875	4.721	0.000
Replicate Prob(F)					1.0000	0.0022	1.0000	0.4193	1.0000	1.0000	1.0000	0.1087	0.1856	0.0245	1.0000
Treatment F					0.000	39.582	0.000	51.887	0.000	0.000	0.000	452.407	55.993	324.196	0.000
Treatment Prob(F)					1.0000	0.0001	1.0000	0.0001	1.0000	1.0000	1.0000	0.0001	0.0001	0.0001	1.0000

Plant and Soil Science, U of KY
Weed Science Research

Pest Type				W Weed	W Weed	W Weed	W Weed
Pest Code				SETFA	AMBTR	ERICA	IPOSS
Pest Scientific Name				Setaria faberi	Ambrosia trifida	Conyza canadensis	Ipomoea sp.
Pest Name				Giant foxtail	Giant ragweed	Marestail	Morning glory
Crop Code							
BBCH Scale							
Crop Scientific Name							
Crop Name							
Rating Type				CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples				1	1	1	1
Rating Timing				8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes				P	P	P	P
Number of Decimals				0	0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	12	13	14	15
1	RHYTHM	0.147	LB AI/A	EP	99	92	78	96
	AMS	2.5	% V/V	EP				
	SELECT	0.125	LB AI/A	LP				
	GLYFOS X-TRA	1	LB AI/A	PRE				
	AMS	3.75	% V/V	PRE				
2	RHYTHM	0.294	LB AI/A	EP	99	98	82	93
	AMS	2.5	% V/V	EP				
	SELECT	0.125	LB AI/A	LP				
	GLYFOS X-TRA	1	LB AI/A	PRE				
	AMS	3.75	% V/V	PRE				
3	RHYTHM	0.588	LB AI/A	EP	99	99	84	92
	AMS	2.5	% V/V	EP				
	SELECT	0.125	LB AI/A	LP				
	GLYFOS X-TRA	1	LB AI/A	PRE				
	AMS	3.75	% V/V	PRE				
4	RHYTHM	0.147	LB AI/A	EP	99	92	96	89
	GLYFOS X-TRA	0.75	LB AE/A	EP				
	GLYFOS X-TRA	1	LB AI/A	PRE				
	AMS	3.75	% V/V	PRE				
5	RHYTHM	0.294	LB AI/A	EP	99	99	85	90
	GLYFOS X-TRA	0.75	LB AE/A	EP				
	GLYFOS X-TRA	1	LB AI/A	PRE				
	AMS	3.75	% V/V	PRE				
6	DAWN	0.375	LB AI/A	EP	99	99	88	95
	NIS	0.25	% V/V	EP				
	SELECT	0.125	LB AI/A	LP				
	GLYFOS X-TRA	1	LB AI/A	PRE				
	AMS	3.75	% V/V	PRE				
7	FLEXSTAR	0.147	LB AI/A	EP	99	99	80	92
	AMS	2.5	% V/V	EP				
	SELECT	0.125	LB AI/A	LP				
	GLYFOS X-TRA	1	LB AI/A	PRE				
	AMS	3.75	% V/V	PRE				

Plant and Soil Science, U of KY
Weed Science Research

Pest Type				W Weed	W Weed	W Weed	W Weed
Pest Code				SETFA	AMBTR	ERICA	IPOSS
Pest Scientific Name				Setaria faberi	Ambrosia trifida	Conyza canadensis	Ipomoea sp.
Pest Name				Giant foxtail	Giant ragweed	Marestail	Morning glory
Crop Code							
BBCH Scale							
Crop Scientific Name							
Crop Name							
Rating Type				CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples				1	1	1	1
Rating Timing				8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes				P	P	P	P
Number of Decimals				0	0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	12	13	14	15
8	FLEXSTAR	0.294	LB AI/A	EP	99	99	89	95
	AMS	2.5	% V/V	EP				
	SELECT	0.125	LB AI/A	LP				
	GLYFOS X-TRA	1	LB AI/A	PRE				
	AMS	3.75	% V/V	PRE				
9	CHECK UNTREATED				0	0	0	0
	GLYFOS X-TRA	1	LB AI/A	PRE				
	AMS	3.75	% V/V	PRE				
LSD (P=.05)					0.0	4.6	11.6	5.2
Standard Deviation					0.0	2.6	6.7	3.0
CV					0.0	3.07	8.83	3.62
Bartlett's X2					0.0	1.658	3.374	4.091
P(Bartlett's X2)					.	0.436	0.761	0.664
Replicate F					0.000	2.557	1.875	4.721
Replicate Prob(F)					1.0000	0.1087	0.1856	0.0245
Treatment F					0.000	452.407	55.993	324.196
Treatment Prob(F)					1.0000	0.0001	0.0001	0.0001

Plant and Soil Science, U of KY
Weed Science Research

NO TILL SOYBEAN POSTEMERGENCE

Trial ID: S10024 Protocol ID: CHEMINOVA--HGLXAFOMME1001
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: JAMES BARRENTINE

Pest Type
W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop
Pest Code
SETFA, Setaria faberi, = US
AMBTR, Ambrosia trifida, = US
ERICA, Conyza canadensis, = US
IPOSS, Ipomoea sp., = US
Crop Code
GLXMA, BSOY, Glycine max, = US
Rating Unit
PERCENT = percent
ARM Action Codes
P = Rating scale of 0 to 100 (e.g. % control or injury)

Plant and Soil Science, U of KY
Weed Science Research

NO TILL SOYBEAN POSTEMERGENCE

Trial ID: S10024 Protocol ID: CHEMINOVA--HGLXAFOMME1001
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: JAMES BARRENTINE

General Trial Information

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Investigator: Charles H. Slack

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5-5-2010

Trial Location

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

Personnel

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Affiliation: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING
Location: LEXINGTON, KY
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu
Mobile No.: 859-227-3355
Investigator: Charles H. Slack
Affiliation: University of Kentucky
Location: Lexington, KY
Postal Code: 40546 **E-mail:** cslack@uky.edu

Other Personnel

Role	Name	Other
Research Analyst	Sara Carter	sara.carter@uky.edu

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AGR 3803
BBCH Scale: BSOY **Planting Date:** 5-5-2010
Planting Method: DRILLE drilled **Rate, Unit:** 210000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 7.5 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 67 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-11-2010

Pest Description

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

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

Pest 3 Type: W **Code:** ERICA Conyza canadensis
Common Name: Marestail

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

Plant and Soil Science, U of KY
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Site and Design

Plot Width, Unit: 6.67 FT **Site Type:** FIELD field
Plot Length, Unit: 44 FT
Plot Area, Unit: 293.48 FT2 **Tillage Type:** NOTILL no-till
Replications: 3 **Study Design:** RACOBL Randomized Complete Block (RCB)

Soil Description

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

Moisture and Weather Conditions

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

Application Description

	A	B
Application Date:	5-28-2010	6-16-2010
Time of Day:	2 PM	2 PM
Application Method:	SPRAY	SPRAY
Application Timing:	EP	LP
Application Placement:	BROFOL	BROFOL
Applied By:	C H SLACK	SARA CARTER
Air Temperature, Unit:	74 F	88 F
% Relative Humidity:	73	50
Wind Velocity, Unit:	6 MPH	4 MPH
Wind Direction:	NW	SW
Soil Temperature, Unit:	70 F	76 F
Soil Moisture:	GOOD	GOOD
% Cloud Cover:	30	10
Next Rain Occurred On:	5-30-2010	6-19-2010

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Height, Unit:	4 IN	6 IN

Pest Stage At Each Application

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

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Application Equipment

	A	B
Appl. Equipment:	ATV	BACKPACK
Operating Pressure, Unit:	30 PSI	30 PSI
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	8004 DG	8004 DG
Nozzle Spacing, Unit:	20 IN	20 IN
Boom Length, Unit:	6.67 FT	6.67 FT
Boom Height, Unit:	30 IN	30 IN
Ground Speed, Unit:	4 MPH	4 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA
Propellant:	CO2	CO2

Plant and Soil Science, U of KY
Weed Science Research

NO TILL SOYBEAN EARLY PREPLANT III

Trial ID: S10025 Protocol ID: BASF-KIXOR-SB
Location: Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: GREG STAPELTON

Pest Type			W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	
Pest Code			STEME	LAMAM	TAROF	SETFA	AMBTR	CHEAL	ERICA	
Pest Scientific Name			Stellaria media	Lamium amplexicaule	Taraxacum officinale	Setaria faberi	Ambrosia trifida	Chenopodium album	Conyza canadensis	
Pest Name			Common chickweed	Henbit	Common dandelion	Giant foxtail	Giant ragweed	Common lambsquarters	Marestail	
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	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples		1	1	1	1	1	1	1	1	1
Rating Timing		2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
ARM Action Codes			P	P	P		P		P	P
Number of Decimals			0	0	0		0		0	0

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9
1	CHECK UNTREATED				0.0	99	99	99	99.0	99	99.0	70	0
	ROUNDUP ORIGINAL	32	FL OZ/A	7 DAY									
	NIS	0.25	% V/V	7 DAY									
	AMS	3.7	% V/V	7 DAY									
2	ROUNDUP ORIGINAL	32	FL OZ/A	7 DAY	0.0	99	99	99	99.0	99	99.0	70	0
	NIS	0.25	% V/V	7 DAY									
	AMS	3.7	% V/V	7 DAY									
	ROUNDUP ORIGINAL	32	FL OZ/A	LP									
	NIS	0.25	% V/V	LP									
	AMS	3.7	% V/V	LP									
3	ROUNDUP ORIGINAL	32	FL OZ/A	7 DAY	0.0	99	99	99	99.0	99	99.0	99	0
	WEEDONE LV4	16	FL OZ/A	7 DAY									
	NIS	0.25	% V/V	7 DAY									
	AMS	3.7	% V/V	7 DAY									
	ROUNDUP ORIGINAL	32	FL OZ/A	LP									
	NIS	0.25	% V/V	LP									
	AMS	3.7	% V/V	LP									
4	SHARPEN	1	FL OZ/A	7 DAY	0.0	99	99	99	99.0	99	99.0	99	0
	ROUNDUP ORIGINAL	32	FL OZ/A	7 DAY									
	MSO	1	% V/V	7 DAY									
	AMS	3.7	% V/V	7 DAY									
	ROUNDUP ORIGINAL	32	FL OZ/A	LP									
	NIS	0.25	% V/V	LP									
	AMS	3.7	% V/V	LP									
5	OPTILL	2	OZ WT/A	7 DAY	0.0	99	99	99	99.0	99	99.0	99	0
	ROUNDUP ORIGINAL	32	FL OZ/A	7 DAY									
	MSO	1	% V/V	7 DAY									
	AMS	3.7	% V/V	7 DAY									
	ROUNDUP ORIGINAL	32	FL OZ/A	LP									
	NIS	0.25	% V/V	LP									
	AMS	3.7	% V/V	LP									

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Weed Science Research

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9
	Pest Type					W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	
	Pest Code					STEME	LAMAM	TAROF	SETFA	AMBTR	CHEAL	ERICA	
	Pest Scientific Name					Stellaria media	Lamium amplexicaule	Taraxacum officinale	Setaria faberi	Ambrosia trifida	Chenopodium album	Conyza canadensis	
	Pest Name					Common chickweed	Henbit	Common dandelion	Giant foxtail	Giant ragweed	Common lambsquarters	Marestail	
	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	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
	Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	Number of Subsamples				1	1	1	1	1	1	1	1	1
	Rating Timing				2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
	ARM Action Codes					P	P	P		P		P	P
	Number of Decimals					0	0	0		0		0	0
6	INTEGRITY	5	FL OZ/A	7 DAY	0.0	99	99	99	99.0	99	99.0	99	0
	MSO	1	% V/V	7 DAY									
	AMS	3.7	% V/V	7 DAY									
	ROUNDUP ORIGINAL	32	FL OZ/A	LP									
	NIS	0.25	% V/V	LP									
	AMS	3.7	% V/V	LP									
7	SHARPEN	1	FL OZ/A	7 DAY	0.0	99	99	99	99.0	99	99.0	99	0
	PROWL H20	2.6	PT/A	7 DAY									
	ROUNDUP ORIGINAL	32	FL OZ/A	7 DAY									
	MSO	1	% V/V	7 DAY									
	AMS	3.7	% V/V	7 DAY									
	ROUNDUP ORIGINAL	32	FL OZ/A	LP									
	NIS	0.25	% V/V	LP									
	AMS	3.7	% V/V	LP									
8	SONIC	3	OZ/A	PRE	0.0	99	99	99	99.0	99	99.0	99	0
	DURANGO DMA	24	OZ/A	MP									
	AMS	2	% V/V	MP									
9	SONIC	4.5	OZ/A	PRE	0.0	99	99	99	99.0	99	99.0	99	0
	DURANGO DMA	24	OZ/A	MP									
	AMS	2	% V/V	MP									
10	DURANGO DMA	24	OZ/A	MP	0.0	99	99	99	99.0	99	99.0	70	0
	FIRSTRATE	0.3	OZ/A	MP									
	AMS	2	% V/V	MP									
	DURANGO DMA	24	OZ/A	++MP									
	AMS	2	% V/V	++MP									
	LSD (P=.05)				0.00	0.0	0.0	0.0	0.00	0.0	0.00	0.0	0.0
	Standard Deviation				0.00	0.0	0.0	0.0	0.00	0.0	0.00	0.0	0.0
	CV				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Bartlett's X2				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	P(Bartlett's X2)				.	.	.	.	.	.	.	.	.
	Replicate F				0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Replicate Prob(F)				1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
	Treatment F				0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Treatment Prob(F)				1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

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Pest Type				W Weed	W Weed	W Weed	W Weed		W Weed	W Weed	W Weed	W Weed
Pest Code				SETFA	AMBTR	CHEAL	ERICA		SETFA	AMBTR	CHEAL	ERICA
Pest Scientific Name				Setaria faberi	Ambrosia trifida	Chenopodium album	Conyza canadensis		Setaria faberi	Ambrosia trifida	Chenopodium album	Conyza canadensis
Pest Name				Giant foxtail	Giant ragweed	Common lambsquarters	Marestail		Giant foxtail	Giant ragweed	Common lambsquarters	Marestail
Crop Code								GLXMA				
BBCH Scale								BSOY				
Crop Scientific Name								Glycine max				
Crop Name								Soybean				
Rating Type				CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples				1	1	1	1	1	1	1	1	1
Rating Timing				4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes				P	P	P	P	P	P	P	P	P
Number of Decimals				0	0	0	0	0	0	0	0	0
Trt No.	Treatment Name	Rate Rate Unit	Growth Stage	10	11	12	13	14	15	16	17	18
1	CHECK UNTREATED			33	33	33	33	0	0	0	0	0
	ROUNDUP ORIGINAL	32 FL OZ/A	7 DAY									
	NIS	0.25 % V/V	7 DAY									
	AMS	3.7 % V/V	7 DAY									
2	ROUNDUP ORIGINAL	32 FL OZ/A	7 DAY	99	99	99	84	0	99	93	99	79
	NIS	0.25 % V/V	7 DAY									
	AMS	3.7 % V/V	7 DAY									
	ROUNDUP ORIGINAL	32 FL OZ/A	LP									
	NIS	0.25 % V/V	LP									
	AMS	3.7 % V/V	LP									
3	ROUNDUP ORIGINAL	32 FL OZ/A	7 DAY	99	99	99	99	0	99	96	99	99
	WEEDONE LV4	16 FL OZ/A	7 DAY									
	NIS	0.25 % V/V	7 DAY									
	AMS	3.7 % V/V	7 DAY									
	ROUNDUP ORIGINAL	32 FL OZ/A	LP									
	NIS	0.25 % V/V	LP									
	AMS	3.7 % V/V	LP									
4	SHARPEN	1 FL OZ/A	7 DAY	99	99	99	99	0	99	92	99	99
	ROUNDUP ORIGINAL	32 FL OZ/A	7 DAY									
	MSO	1 % V/V	7 DAY									
	AMS	3.7 % V/V	7 DAY									
	ROUNDUP ORIGINAL	32 FL OZ/A	LP									
	NIS	0.25 % V/V	LP									
	AMS	3.7 % V/V	LP									
5	OPTILL	2 OZ WT/A	7 DAY	99	99	99	99	0	99	91	99	99
	ROUNDUP ORIGINAL	32 FL OZ/A	7 DAY									
	MSO	1 % V/V	7 DAY									
	AMS	3.7 % V/V	7 DAY									
	ROUNDUP ORIGINAL	32 FL OZ/A	LP									
	NIS	0.25 % V/V	LP									
	AMS	3.7 % V/V	LP									

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Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	10	11	12	13	14	15	16	17	18
	Pest Type				W Weed	W Weed	W Weed	W Weed		W Weed	W Weed	W Weed	W Weed
	Pest Code				SETFA	AMBTR	CHEAL	ERICA		SETFA	AMBTR	CHEAL	ERICA
	Pest Scientific Name				Setaria faberi	Ambrosia trifida	Chenopodium album	Conyza canadensis		Setaria faberi	Ambrosia trifida	Chenopodium album	Conyza canadensis
	Pest Name				Giant foxtail	Giant ragweed	Common lambsquarters	Marestail		Giant foxtail	Giant ragweed	Common lambsquarters	Marestail
	Crop Code								GLXMA				
	BBCH Scale								BSOY				
	Crop Scientific Name								Glycine max				
	Crop Name								Soybean				
	Rating Type				CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
	Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	Number of Subsamples				1	1	1	1	1	1	1	1	1
	Rating Timing				4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK
	ARM Action Codes				P	P	P	P	P	P	P	P	P
	Number of Decimals				0	0	0	0	0	0	0	0	0
6	INTEGRITY	5	FL OZ/A	7 DAY	99	99	99	99	0	99	99	99	99
	MSO	1	% V/V	7 DAY									
	AMS	3.7	% V/V	7 DAY									
	ROUNDUP ORIGINAL	32	FL OZ/A	LP									
	NIS	0.25	% V/V	LP									
	AMS	3.7	% V/V	LP									
7	SHARPEN	1	FL OZ/A	7 DAY	99	99	99	99	0	99	91	99	99
	PROWL H20	2.6	PT/A	7 DAY									
	ROUNDUP ORIGINAL	32	FL OZ/A	7 DAY									
	MSO	1	% V/V	7 DAY									
	AMS	3.7	% V/V	7 DAY									
	ROUNDUP ORIGINAL	32	FL OZ/A	LP									
	NIS	0.25	% V/V	LP									
	AMS	3.7	% V/V	LP									
8	SONIC	3	OZ/A	PRE	99	99	99	99	0	94	93	99	99
	DURANGO DMA	24	OZ/A	MP									
	AMS	2	% V/V	MP									
9	SONIC	4.5	OZ/A	PRE	99	99	99	99	0	99	96	99	99
	DURANGO DMA	24	OZ/A	MP									
	AMS	2	% V/V	MP									
10	DURANGO DMA	24	OZ/A	MP	99	99	99	99	0	99	99	99	99
	FIRSTRATE	0.3	OZ/A	MP									
	AMS	2	% V/V	MP									
	DURANGO DMA	24	OZ/A	++MP									
	AMS	2	% V/V	++MP									
	LSD (P=.05)				31.0	31.0	31.0	31.3	0.0	4.4	8.1	0.0	4.9
	Standard Deviation				18.1	18.1	18.1	18.3	0.0	2.6	4.7	0.0	2.9
	CV				19.56	19.56	19.56	20.07	0.0	2.88	5.58	0.0	3.27
	Bartlett's X2				0.0	0.0	0.0	7.653	0.0	0.0	0.623	0.0	0.0
	P(Bartlett's X2)				.	.	.	0.006*	.	.	0.996	.	.
	Replicate F				1.000	1.000	1.000	0.857	0.000	1.000	2.157	0.000	1.000
	Replicate Prob(F)				0.3874	0.3874	0.3874	0.4411	1.0000	0.3874	0.1446	1.0000	0.3874
	Treatment F				4.000	4.000	4.000	3.923	0.000	446.332	120.094	0.000	359.820
	Treatment Prob(F)				0.0060	0.0060	0.0060	0.0066	1.0000	0.0001	0.0001	1.0000	0.0001

Plant and Soil Science, U of KY
Weed Science Research

NO TILL SOYBEAN EARLY PREPLANT III

Trial ID: S10025 Protocol ID: BASF-KIXOR-SB
Location: Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: GREG STAPELTON

Pest Type
W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop
Pest Code
STEME, Stellaria media, = US
LAMAM, Lamium amplexicaule, = US
TAROF, Taraxacum officinale, = US
SETFA, Setaria faberi, = US
AMBTR, Ambrosia trifida, = US
CHEAL, Chenopodium album, = US
ERICA, Conyza canadensis, = US
Crop Code
GLXMA, BSOY, Glycine max, = US
Rating Unit
PERCENT = percent
ARM Action Codes
P = Rating scale of 0 to 100 (e.g. % control or injury)

Plant and Soil Science, U of KY
Weed Science Research

NO TILL SOYBEAN EARLY PREPLANT III

Trial ID: S10025 Protocol ID: BASF-KIXOR-SB
Location: Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: GREG STAPELTON

General Trial Information

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Investigator: Charles H. Slack

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 4-28-2010

Trial Location

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

Personnel

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Affiliation: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING
Location: LEXINGTON, KY
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu
Mobile No.: 859-227-3355
Investigator: Charles H. Slack
Affiliation: University of Kentucky
Location: Lexington, KY
Postal Code: 40546 **E-mail:** cslack@uky.edu

Other Personnel

Role	Name	Other
Research Analyst	Sara Carter	sara.carter@uky.edu

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AGR 3803
BBCH Scale: BSOY **Planting Date:** 5-5-2010
Planting Method: DRILLE drilled **Rate, Unit:** 210000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 7.5 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 67 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-11-2010

Plant and Soil Science, U of KY
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Pest Description

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

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

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

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

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

Pest 6 Type: W **Code:** CHEAL Chenopodium album
Common Name: Common lambsquarters

Pest 7 Type: W **Code:** ERICA Conyza canadensis
Common Name: Marestail

Site and Design

Plot Width, Unit: 6.67 FT **Site Type:** FIELD field
Plot Length, Unit: 44 FT
Plot Area, Unit: 293.48 FT2 **Tillage Type:** NOTILL no-till
Replications: 3 **Study Design:** RACOBL Randomized Complete Block (RCB)

Soil Description

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

Moisture and Weather Conditions

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

Application Description

	A	B	C	D	E
Application Date:	4-28-2010	5-6-2010	5-28-2010	6-1-2010	6-16-2010
Time of Day:	2 PM	4 PM	2 PM	2 PM	2 PM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	7D	PRE	MP	LP	++MP
Application Placement:	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	C H SLACK	C H SLACK	C H SLACK
Air Temperature, Unit:	60 F	74 F	74 F	74 F	80 F
% Relative Humidity:	38	27	73	73	75
Wind Velocity, Unit:	8 MPH	2 MPH	6 MPH	6 MPH	4 MPH
Wind Direction:	W	SW	NW	NW	NNW
Soil Temperature, Unit:	52 F	69 F	70 F	72 F	76 F
Soil Moisture:	EXCELL	GOOD	GOOD	GOOD	GOOD
% Cloud Cover:	10	10	30	30	10
Next Rain Occurred On:	5-1-2010	5-8-2010	5-30-2010	6-2-2010	6-19-2010

Crop Stage At Each Application

	A	B	C	D	E
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
Height, Unit:			5 IN	6 IN	

Plant and Soil Science, U of KY
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Pest Stage At Each Application

	A	B	C	D	E
Pest 1 Code, Type, Scale:	STEME W	STEME W	STEME W	STEME W	STEME W
Height, Unit:	4 IN	5 IN			
Pest 2 Code, Type, Scale:	LAMAM W	LAMAM W	LAMAM W	LAMAM W	LAMAM W
Height, Unit:	4 IN	5 IN			
Pest 3 Code, Type, Scale:	TAROF W	TAROF W	TAROF W	TAROF W	TAROF W
Height, Unit:	3 IN	4 IN			
Pest 4 Code, Type, Scale:	SETFA W	SETFA W	SETFA W	SETFA W	SETFA W
Height, Unit:			2 IN	3 IN	
Pest 5 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W	AMBTR W	AMBTR W
Height, Unit:		1 IN	3 IN	4 IN	
Pest 6 Code, Type, Scale:	CHEAL W	CHEAL W	CHEAL W	CHEAL W	CHEAL W
Height, Unit:			2 IN	3 IN	
Pest 7 Code, Type, Scale:	ERICA W	ERICA W	ERICA W	ERICA W	ERICA W
Height, Unit:		2 IN	3.5 IN	4	

Application Equipment

	A	B	C	D	E
Appl. Equipment:	ATV	ATV	ATV	ATV	
Operating Pressure, Unit:	30 PSI	30 PSI	30 PSI	30 PSI	
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN	
Nozzle Size:	8004 DG	8004 DG	8004 DG	8004 DG	
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN	20 IN	
Boom Length, Unit:	6.67 FT	6.67 FT	6.67 FT	6.67 FT	
Boom Height, Unit:	30 IN	30 IN	30 IN	30 IN	
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH	4 MPH	
Carrier:	WATER	WATER	WATER	WATER	
Spray Volume, Unit:	24 GPA	24 GPA	24 GPA	24 GPA	
Propellant:	CO2	CO2	CO2	CO2	

Plant and Soil Science, U of KY
Weed Science Research

NO TILL SOYBEAN LIBERTY LINK EARLY PREPLANT

Trial ID: S10032 Protocol ID: FMC-SULFSOY
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: Joesph Reed

Pest Type		W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code		STEME	LAMAM	LACSE	CHEAL	AMBTR	STEME	LAMAM	LACSE
Pest Scientific Name		Stellaria media	Lamium amplexicaule	Lactuca serriola	Chenopodium album	Ambrosia trifida	Stellaria media	Lamium amplexicaule	Lactuca serriola
Pest Name		Common chickweed	Henbit	Prickly lettuce	Common lambsquarters	Giant ragweed	Common chickweed	Henbit	Prickly lettuce
Crop Code									
BBCH Scale									
Crop Scientific Name									
Crop Name									
Description		BEFORE PLANTING	BEFORE PLANTING	BEFORE PLANTING	BEFORE PLANTING	BEFORE PLANTING			
Rating Date							5-5-2010	5-5-2010	5-5-2010
Rating Type		CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples		1	1	1	1	1	1	1	1
Rating Timing		2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	AT PLANTING	AT PLANTING	AT PLANTING
Days After First/Last Applic.							27 16	27 16	27 16
Plant-Eval Interval							0 DP-1	0 DP-1	0 DP-1
Days After Emergence							-8 DE-	-8 DE-	-8 DE-
ARM Action Codes		P	P	P	P	P	P	P	P
Number of Decimals		0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8
1	RAGE D-TECH	1	PT/A	-14 D	0	0	0	0	0	99	99	99
	ROUNDUP POWERMAX	2	PT/A	-14 D								
	SPARTAN	4	OZ/A	-14 D								
	CLASSIC	1	OZ/A	-14 D								
	AMS	3.7	% V/V	-14D								
	IGNITE 280	22	OZ/A	V3								
	ACTIVATOR 90	0.25	% V/V	V3								
2	AUTHORITY MTZ	10	OZ/A	-14 D	0	0	0	0	0	99	99	99
	GRAMOXONE INTEON	2	PT/A	-14 D								
	RAGE D-TECH	1	PT/A	-14 D								
	COC	1	% V/V	-14 D								
	AMS	3.7	% V/V	-14 D								
	IGNITE 280	22	OZ/A	V3								
	ACTIVATOR 90	0.25	% V/V	V3								
3	RAGE D-TECH	1	PT/A	-14 D	0	0	0	0	0	99	99	99
	ROUNDUP POWERMAX	2	PT/A	-14 D								
	AUTHORITY ASSIST	5	OZ/A	-14 D								
	SHARPEN	1	OZ/A	PRE								
	MSO	1	PT/A	PRE								
	IGNITE 280	22	OZ/A	V3								
	ACTIVATOR 90	0.25	% V/V	V3								
4	RAGE D-TECH	0.75	PT/A	-30 D	99	99	99	99	99	99	99	99
	ROUNDUP POWERMAX	2	PT/A	-30 D								
	AUTHORITY ASSIST	5	OZ/A	-30 D								
	SHARPEN	1	OZ/A	PRE								
	MSO	1	PT/A	PRE								
	IGNITE 280	22	OZ/A	V3								
	ACTIVATOR 90	0.25	% V/V	V3								

Plant and Soil Science, U of KY
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Pest Type		W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code		STEME	LAMAM	LACSE	CHEAL	AMBTR	STEME	LAMAM	LACSE
Pest Scientific Name		Stellaria media	Lamium amplexicaule	Lactuca serriola	Chenopodium album	Ambrosia trifida	Stellaria media	Lamium amplexicaule	Lactuca serriola
Pest Name		Common chickweed	Henbit	Prickly lettuce	Common lambsquarters	Giant ragweed	Common chickweed	Henbit	Prickly lettuce
Crop Code									
BBCH Scale									
Crop Scientific Name									
Crop Name									
Description		BEFORE PLANTING	BEFORE PLANTING	BEFORE PLANTING	BEFORE PLANTING	BEFORE PLANTING			
Rating Date							5-5-2010	5-5-2010	5-5-2010
Rating Type		CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples		1	1	1	1	1	1	1	1
Rating Timing		2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	AT PLANTING	AT PLANTING	AT PLANTING
Days After First/Last Applic.							27 16	27 16	27 16
Plant-Eval Interval							0 DP-1	0 DP-1	0 DP-1
Days After Emergence							-8 DE-	-8 DE-	-8 DE-
ARM Action Codes		P	P	P	P	P	P	P	P
Number of Decimals		0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8
5	RAGE D-TECH	0.75	PT/A	-14 D	0	0	0	0	0	99	99	99
	AUTHORITY FIRST	6.45	OZ/A	-14 D								
	SHARPEN	1	OZ/A	PRE								
	MSO	1	PT/A	PRE								
	IGNITE 280	22	OZ/A	V3								
	CADET	0.5	OZ/A	V3								
	ACTIVATOR 90	0.25	% V/V	V3								
6	RAGE D-TECH	0.75	PT/A	-14 D	0	0	0	0	0	99	99	99
	ROUNDUP POWERMAX	2	PT/A	-14 D								
	VALOR SX	2	OZ/A	PRE								
	IGNITE 280	22	OZ/A	MP								
	AMS	3.7	% V/V	MP								
	IGNITE 280	22	OZ/A	LP								
	AMS	3.7	% V/V	LP								
7	RAGE D-TECH	0.75	PT/A	-14 D	0	0	0	0	0	99	99	99
	ROUNDUP POWERMAX	2	PT/A	-14 D								
	VALOR SX	2	OZ/A	PRE								
	IGNITE 280	22	OZ/A	MP								
	AMS	3.7	% V/V	MP								
8	GRAMOXONE INTEON	2	PT/A	-14 D	0	0	0	0	0	99	99	99
	RAGE D-TECH	1	PT/A	-14 D								
	COC	1	% V/V	-14 D								
	IGNITE 280	22	OZ/A	MP								
	AMS	3.7	% V/V	MP								
	IGNITE 280	22	OZ/A	LP								
	AMS	3.7	% V/V	LP								
9	GRAMOXONE INTEON	2	PT/A	-14 D	0	0	0	0	0	99	99	99
	RAGE D-TECH	1	PT/A	-14 D								
	COC	1	% V/V	-14 D								
	PREFIX	2	PT/A	PRE								
	IGNITE 280	22	OZ/A	MP								
	AMS	3.7	% V/V	MP								
	IGNITE 280	22	OZ/A	LP								
	AMS	3.7	% V/V	LP								

Plant and Soil Science, U of KY
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Pest Type			W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code			STEME	LAMAM	LACSE	CHEAL	AMBTR	STEME	LAMAM	LACSE
Pest Scientific Name			Stellaria media	Lamium amplexicaule	Lactuca serriola	Chenopodium album	Ambrosia trifida	Stellaria media	Lamium amplexicaule	Lactuca serriola
Pest Name			Common chickweed	Henbit	Prickly lettuce	Common lambsquarters	Giant ragweed	Common chickweed	Henbit	Prickly lettuce
Crop Code										
BBCH Scale										
Crop Scientific Name										
Crop Name										
Description			BEFORE PLANTING	BEFORE PLANTING	BEFORE PLANTING	BEFORE PLANTING	BEFORE PLANTING			
Rating Date								5-5-2010	5-5-2010	5-5-2010
Rating Type			CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit			PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples			1	1	1	1	1	1	1	1
Rating Timing			2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	AT PLANTING	AT PLANTING	AT PLANTING
Days After First/Last Applic.								27 16	27 16	27 16
Plant-Eval Interval								0 DP-1	0 DP-1	0 DP-1
Days After Emergence								-8 DE-	-8 DE-	-8 DE-
ARM Action Codes			P	P	P	P	P	P	P	P
Number of Decimals			0	0	0	0	0	0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8
10	RAGE D-TECH	0.75	PT/A	-14 D	0	0	0	0	0	99	99	99
	ROUNDUP POWERMAX	2	PT/A	-14 D								
	VALOR XLT	3	OZ/A	PRE								
	IGNITE 280	22	OZ/A	MP								
	AMS	3.7	% V/V	MP								
	IGNITE 280	22	OZ/A	LP								
	AMS	3.7	% V/V	LP								
LSD (P=.05)					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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
Bartlett's X2					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P(Bartlett's X2)					.	.	.	.	.	.	.	.
Replicate F					0.000	0.000	0.000	0.000	0.000	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

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Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	9	10	11	12	13	14	15	16	17
	Pest Type				W Weed	W Weed		W Weed	W Weed	W Weed		W Weed	W Weed
	Pest Code				CHEAL	AMBTR		SETFA	AMBTR	CHEAL		SETFA	AMBTR
	Pest Scientific Name				Chenopodium album	Ambrosia trifida		Setaria faberi	Ambrosia trifida	Chenopodium album		Setaria faberi	Ambrosia trifida
	Pest Name				Common lambsquarters	Giant ragweed		Giant foxtail	Giant ragweed	Common lambsquarters		Giant foxtail	Giant ragweed
	Crop Code						GLXMA				GLXMA		
	BBCH Scale						BSOY				BSOY		
	Crop Scientific Name						Glycine max				Glycine max		
	Crop Name						Soybean				Soybean		
	Description												
	Rating Date				5-5-2010	5-5-2010							
	Rating Type				CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
	Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	Number of Subsamples				1	1	1	1	1	1	1	1	1
	Rating Timing				AT PLANTING	AT PLANTING	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK
	Days After First/Last Applic.				27 16	27 16							
	Plant-Eval Interval				0 DP-1	0 DP-1							
	Days After Emergence				-8 DE-	-8 DE-							
	ARM Action Codes				P	P	P	P	P	P	P	P	P
	Number of Decimals				0	0	0	0	0	0	0	0	0
1	RAGE D-TECH	1	PT/A	-14 D	99	99	0	99	99	99	0	95	99
	ROUNDUP POWERMAX	2	PT/A	-14 D									
	SPARTAN	4	OZ/A	-14 D									
	CLASSIC	1	OZ/A	-14 D									
	AMS	3.7	% V/V	-14D									
	IGNITE 280	22	OZ/A	V3									
	ACTIVATOR 90	0.25	% V/V	V3									
2	AUTHORITY MTZ	10	OZ/A	-14 D	99	99	0	99	99	99	0	99	94
	GRAMOXONE INTEON	2	PT/A	-14 D									
	RAGE D-TECH	1	PT/A	-14 D									
	COC	1	% V/V	-14 D									
	AMS	3.7	% V/V	-14 D									
	IGNITE 280	22	OZ/A	V3									
	ACTIVATOR 90	0.25	% V/V	V3									
3	RAGE D-TECH	1	PT/A	-14 D	99	99	0	99	99	99	0	99	98
	ROUNDUP POWERMAX	2	PT/A	-14 D									
	AUTHORITY ASSIST	5	OZ/A	-14 D									
	SHARPEN	1	OZ/A	PRE									
	MSO	1	PT/A	PRE									
	IGNITE 280	22	OZ/A	V3									
	ACTIVATOR 90	0.25	% V/V	V3									
4	RAGE D-TECH	0.75	PT/A	-30 D	99	99	0	99	99	99	0	99	99
	ROUNDUP POWERMAX	2	PT/A	-30 D									
	AUTHORITY ASSIST	5	OZ/A	-30 D									
	SHARPEN	1	OZ/A	PRE									
	MSO	1	PT/A	PRE									
	IGNITE 280	22	OZ/A	V3									
	ACTIVATOR 90	0.25	% V/V	V3									

Plant and Soil Science, U of KY
Weed Science Research

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	9	10	11	12	13	14	15	16	17
	Pest Type				W Weed	W Weed		W Weed	W Weed	W Weed		W Weed	W Weed
	Pest Code				CHEAL	AMBTR		SETFA	AMBTR	CHEAL		SETFA	AMBTR
	Pest Scientific Name				Chenopodium album	Ambrosia trifida		Setaria faberi	Ambrosia trifida	Chenopodium album		Setaria faberi	Ambrosia trifida
	Pest Name				Common lambsquarters	Giant ragweed		Giant foxtail	Giant ragweed	Common lambsquarters		Giant foxtail	Giant ragweed
	Crop Code						GLXMA				GLXMA		
	BBCH Scale						BSOY				BSOY		
	Crop Scientific Name						Glycine max				Glycine max		
	Crop Name						Soybean				Soybean		
	Description												
	Rating Date				5-5-2010	5-5-2010							
	Rating Type				CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
	Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	Number of Subsamples				1	1	1	1	1	1	1	1	1
	Rating Timing				AT PLANTING	AT PLANTING	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK
	Days After First/Last Applic.				27 16	27 16							
	Plant-Eval Interval				0 DP-1	0 DP-1							
	Days After Emergence				-8 DE-	-8 DE-							
	ARM Action Codes				P	P	P	P	P	P	P	P	P
	Number of Decimals				0	0	0	0	0	0	0	0	0
5	RAGE D-TECH	0.75	PT/A	-14 D	99	99	0	99	99	99	0	99	95
	AUTHORITY FIRST	6.45	OZ/A	-14 D									
	SHARPEN	1	OZ/A	PRE									
	MSO	1	PT/A	PRE									
	IGNITE 280	22	OZ/A	V3									
	CADET	0.5	OZ/A	V3									
	ACTIVATOR 90	0.25	% V/V	V3									
6	RAGE D-TECH	0.75	PT/A	-14 D	99	99	0	99	99	99	0	99	95
	ROUNDUP POWERMAX	2	PT/A	-14 D									
	VALOR SX	2	OZ/A	PRE									
	IGNITE 280	22	OZ/A	MP									
	AMS	3.7	% V/V	MP									
	IGNITE 280	22	OZ/A	LP									
	AMS	3.7	% V/V	LP									
7	RAGE D-TECH	0.75	PT/A	-14 D	99	99	0	99	99	99	0	99	92
	ROUNDUP POWERMAX	2	PT/A	-14 D									
	VALOR SX	2	OZ/A	PRE									
	IGNITE 280	22	OZ/A	MP									
	AMS	3.7	% V/V	MP									
8	GRAMOXONE INTEON	2	PT/A	-14 D	95	99	0	99	99	99	0	99	96
	RAGE D-TECH	1	PT/A	-14 D									
	COC	1	% V/V	-14 D									
	IGNITE 280	22	OZ/A	MP									
	AMS	3.7	% V/V	MP									
	IGNITE 280	22	OZ/A	LP									
	AMS	3.7	% V/V	LP									
9	GRAMOXONE INTEON	2	PT/A	-14 D	95	99	0	99	99	99	0	99	99
	RAGE D-TECH	1	PT/A	-14 D									
	COC	1	% V/V	-14 D									
	PREFIX	2	PT/A	PRE									
	IGNITE 280	22	OZ/A	MP									
	AMS	3.7	% V/V	MP									
	IGNITE 280	22	OZ/A	LP									
	AMS	3.7	% V/V	LP									

Plant and Soil Science, U of KY
Weed Science Research

Pest Type				W Weed	W Weed		W Weed	W Weed	W Weed		W Weed	W Weed		
Pest Code				CHEAL	AMBTR		SETFA	AMBTR	CHEAL		SETFA	AMBTR		
Pest Scientific Name				Chenopodium album	Ambrosia trifida		Setaria faberi	Ambrosia trifida	Chenopodium album		Setaria faberi	Ambrosia trifida		
Pest Name				Common lambsquarters	Giant ragweed		Giant foxtail	Giant ragweed	Common lambsquarters		Giant foxtail	Giant ragweed		
Crop Code						GLXMA				GLXMA				
BBCH Scale						BSOY				BSOY				
Crop Scientific Name						Glycine max				Glycine max				
Crop Name						Soybean				Soybean				
Description														
Rating Date				5-5-2010	5-5-2010									
Rating Type				CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL		
Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT		
Number of Subsamples				1	1	1	1	1	1	1	1	1		
Rating Timing				AT PLANTING	AT PLANTING	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK		
Days After First/Last Applic.				27 16	27 16									
Plant-Eval Interval				0 DP-1	0 DP-1									
Days After Emergence				-8 DE-	-8 DE-									
ARM Action Codes				P	P	P	P	P	P	P	P	P		
Number of Decimals				0	0	0	0	0	0	0	0	0		
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	9	10	11	12	13	14	15	16	17	
10	RAGE D-TECH	0.75	PT/A	-14 D	95	99	0	99	99	99	0	99	99	
	ROUNDUP POWERMAX	2	PT/A	-14 D										
	VALOR XLT	3	OZ/A	PRE										
	IGNITE 280	22	OZ/A	MP										
	AMS	3.7	% V/V	MP										
	IGNITE 280	22	OZ/A	LP										
	AMS	3.7	% V/V	LP										
LSD (P=.05)					0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	7.2	
Standard Deviation					0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	4.2	
CV					0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.04	4.38	
Bartlett's X2					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.915	
P(Bartlett's X2)					.	.	.	.	.	.	.	.	0.861	
Replicate F					0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.000	0.203	
Replicate Prob(F)					1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.3874	0.8177	
Treatment F					0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.000	1.138	
Treatment Prob(F)					1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.4742	0.3877	

Plant and Soil Science, U of KY
Weed Science Research

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	18	19	20	21	22	26
	Pest Type				W Weed		W Weed	W Weed	W Weed	
	Pest Code				CHEAL		SETFA	AMBTR	CHEAL	
	Pest Scientific Name				Chenopodium album		Setaria faberi	Ambrosia trifida	Chenopodium album	
	Pest Name				Common lambsquarters		Giant foxtail	Giant ragweed	Common lambsquarters	
	Crop Code					GLXMA				GLXMA
	BBCH Scale					BSOY				BSOY
	Crop Scientific Name					Glycine max				Glycine max
	Crop Name					Soybean				Soybean
	Description									
	Rating Date									10-8-2010
	Rating Type				CONTROL	INJURY	CONTROL	CONTROL	CONTROL	YIELD
	Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	BU
	Number of Subsamples				1	1	1	1	1	1
	Rating Timing				4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	
	Days After First/Last Applic.									183 128
	Plant-Eval Interval									156 DP-1
	Days After Emergence									148 DE
	ARM Action Codes				P	P	P	P	P	TY1
	Number of Decimals				0	0	0	0	0	0
1	RAGE D-TECH	1	PT/A	-14 D		99	0	95	99	99	28
	ROUNDUP POWERMAX	2	PT/A	-14 D						
	SPARTAN	4	OZ/A	-14 D						
	CLASSIC	1	OZ/A	-14 D						
	AMS	3.7	% V/V	-14D						
	IGNITE 280	22	OZ/A	V3						
	ACTIVATOR 90	0.25	% V/V	V3						
2	AUTHORITY MTZ	10	OZ/A	-14 D		99	0	99	94	99	22
	GRAMOXONE INTEON	2	PT/A	-14 D						
	RAGE D-TECH	1	PT/A	-14 D						
	COC	1	% V/V	-14 D						
	AMS	3.7	% V/V	-14 D						
	IGNITE 280	22	OZ/A	V3						
	ACTIVATOR 90	0.25	% V/V	V3						
3	RAGE D-TECH	1	PT/A	-14 D		99	0	99	98	99	23
	ROUNDUP POWERMAX	2	PT/A	-14 D						
	AUTHORITY ASSIST	5	OZ/A	-14 D						
	SHARPEN	1	OZ/A	PRE						
	MSO	1	PT/A	PRE						
	IGNITE 280	22	OZ/A	V3						
	ACTIVATOR 90	0.25	% V/V	V3						
4	RAGE D-TECH	0.75	PT/A	-30 D		99	0	99	99	99	18
	ROUNDUP POWERMAX	2	PT/A	-30 D						
	AUTHORITY ASSIST	5	OZ/A	-30 D						
	SHARPEN	1	OZ/A	PRE						
	MSO	1	PT/A	PRE						
	IGNITE 280	22	OZ/A	V3						
	ACTIVATOR 90	0.25	% V/V	V3						

Plant and Soil Science, U of KY
Weed Science Research

Pest Type				W Weed		W Weed		W Weed		W Weed		
Pest Code				CHEAL		SETFA		AMBTR		CHEAL		
Pest Scientific Name				Chenopodium album		Setaria faberi		Ambrosia trifida		Chenopodium album		
Pest Name				Common lambsquarters		Giant foxtail		Giant ragweed		Common lambsquarters		
Crop Code					GLXMA							GLXMA
BBCH Scale					BSOY							BSOY
Crop Scientific Name					Glycine max							Glycine max
Crop Name					Soybean							Soybean
Description												
Rating Date												10-8-2010
Rating Type				CONTROL	INJURY	CONTROL		CONTROL		CONTROL		YIELD
Rating Unit				PERCENT	PERCENT	PERCENT		PERCENT		PERCENT		BU
Number of Subsamples				1	1	1		1		1		1
Rating Timing				4 WEEK	8 WEEK	8 WEEK		8 WEEK		8 WEEK		
Days After First/Last Applic.												183 128
Plant-Eval Interval												156 DP-1
Days After Emergence												148 DE
ARM Action Codes				P	P	P		P		P		TY1
Number of Decimals				0	0	0		0		0		0
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	18	19		20		21		22	26
5	RAGE D-TECH	0.75	PT/A	-14 D	99	0		99		95		99	24
	AUTHORITY FIRST	6.45	OZ/A	-14 D									
	SHARPEN	1	OZ/A	PRE									
	MSO	1	PT/A	PRE									
	IGNITE 280	22	OZ/A	V3									
	CADET	0.5	OZ/A	V3									
	ACTIVATOR 90	0.25	% V/V	V3									
6	RAGE D-TECH	0.75	PT/A	-14 D	99	0		99		95		99	13
	ROUNDUP POWERMAX	2	PT/A	-14 D									
	VALOR SX	2	OZ/A	PRE									
	IGNITE 280	22	OZ/A	MP									
	AMS	3.7	% V/V	MP									
	IGNITE 280	22	OZ/A	LP									
	AMS	3.7	% V/V	LP									
7	RAGE D-TECH	0.75	PT/A	-14 D	99	0		99		92		99	12
	ROUNDUP POWERMAX	2	PT/A	-14 D									
	VALOR SX	2	OZ/A	PRE									
	IGNITE 280	22	OZ/A	MP									
	AMS	3.7	% V/V	MP									
8	GRAMOXONE INTEON	2	PT/A	-14 D	99	0		99		96		99	16
	RAGE D-TECH	1	PT/A	-14 D									
	COC	1	% V/V	-14 D									
	IGNITE 280	22	OZ/A	MP									
	AMS	3.7	% V/V	MP									
	IGNITE 280	22	OZ/A	LP									
	AMS	3.7	% V/V	LP									
9	GRAMOXONE INTEON	2	PT/A	-14 D	99	0		99		99		99	14
	RAGE D-TECH	1	PT/A	-14 D									
	COC	1	% V/V	-14 D									
	PREFIX	2	PT/A	PRE									
	IGNITE 280	22	OZ/A	MP									
	AMS	3.7	% V/V	MP									
	IGNITE 280	22	OZ/A	LP									
	AMS	3.7	% V/V	LP									

Plant and Soil Science, U of KY
Weed Science Research

Pest Type				W Weed		W Weed	W Weed	W Weed				
Pest Code				CHEAL		SETFA	AMBTR	CHEAL				
Pest Scientific Name				Chenopodium album		Setaria faberi	Ambrosia trifida	Chenopodium album				
Pest Name				Common lambsquarters		Giant foxtail	Giant ragweed	Common lambsquarters				
Crop Code					GLXMA				GLXMA			
BBCH Scale					BSOY				BSOY			
Crop Scientific Name					Glycine max				Glycine max			
Crop Name					Soybean				Soybean			
Description												
Rating Date									10-8-2010			
Rating Type				CONTROL	INJURY	CONTROL	CONTROL	CONTROL	YIELD			
Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	BU			
Number of Subsamples				1	1	1	1	1	1			
Rating Timing				4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK				
Days After First/Last Applic.									183 128			
Plant-Eval Interval									156 DP-1			
Days After Emergence									148 DE			
ARM Action Codes				P	P	P	P	P	TY1			
Number of Decimals				0	0	0	0	0	0			
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	18	19	20	21	22	26		
10	RAGE D-TECH	0.75	PT/A	-14 D	99	0	99	99	99	17		
	ROUNDUP POWERMAX	2	PT/A	-14 D								
	VALOR XLT	3	OZ/A	PRE								
	IGNITE 280	22	OZ/A	MP								
	AMS	3.7	% V/V	MP								
	IGNITE 280	22	OZ/A	LP								
	AMS	3.7	% V/V	LP								
LSD (P=.05)					0.0	0.0	3.4	7.2	0.0	7.0		
Standard Deviation					0.0	0.0	2.0	4.2	0.0	4.1		
CV					0.0	0.0	2.04	4.38	0.0	21.78		
Bartlett's X2					0.0	0.0	0.0	1.915	0.0	15.466		
P(Bartlett's X2)					.	.	.	0.861	.	0.079		
Replicate F					0.000	0.000	1.000	0.203	0.000	2.333		
Replicate Prob(F)					1.0000	1.0000	0.3874	0.8177	1.0000	0.1256		
Treatment F					0.000	0.000	1.000	1.138	0.000	5.192		
Treatment Prob(F)					1.0000	1.0000	0.4742	0.3877	1.0000	0.0015		

Plant and Soil Science, U of KY
Weed Science Research

NO TILL SOYBEAN LIBERTY LINK EARLY PREPLANT

Trial ID: S10032 Protocol ID: FMC-SULFSOY
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: Joesph Reed

Pest Type
W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop
Pest Code
STEME, Stellaria media, = US
LAMAM, Lamium amplexicaule, = US
LACSE, Lactuca serriola, = US
CHEAL, Chenopodium album, = US
AMBTR, Ambrosia trifida, = US
SETFA, Setaria faberi, = US
Crop Code
GLXMA, BSOY, Glycine max, = US
Rating Type
YIELD = yield
Rating Unit
PERCENT = percent
BU = bushel
Plant-Eval Interval
0 DP-1 = 1 5-5-2010
156 DP-1 = 1 5-5-2010
ARM Action Codes
P = Rating scale of 0 to 100 (e.g. % control or injury)
TY1 = 3.821053*[C24]*(100-[C25])/86.5

Plant and Soil Science, U of KY
Weed Science Research

NO TILL SOYBEAN LIBERTY LINK EARLY PREPLANT

Trial ID: S10032 Protocol ID: FMC-SULFSOY
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: Joesph Reed

General Trial Information

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Investigator: Charles H. Slack

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 4-8-2010

Trial Location

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

Personnel

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Affiliation: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING
Location: LEXINGTON, KY
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu
Mobile No.: 859-227-3355
Investigator: Charles H. Slack
Affiliation: University of Kentucky
Location: Lexington, KY
Postal Code: 40546 **E-mail:** cslack@uky.edu

Other Personnel

Role	Name	Other
Research Analyst	Sara Carter	sara.carter@uky.edu

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: S070147 LL
BBCH Scale: BSOY **Planting Date:** 5-5-2010
Planting Method: DRILLE drilled **Rate, Unit:** 210000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 7.5 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 68 F
Soil Moisture: NORMAL normal **Emergence Date:** 5-13-2010
Harvest Date: 10-8-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 38 FT
% Standard Moisture: 13.0

Plant and Soil Science, U of KY
Weed Science Research

Pest Description

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

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

Pest 3 Type: W **Code:** LACSE Lactuca serriola
Common Name: Prickly lettuce

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

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

Pest 6 Type: W **Code:** SETFA Setaria faberi
Common Name: Giant foxtail

Site and Design

Plot Width, Unit: 6.67 FT **Site Type:** FIELD field
Plot Length, Unit: 44 FT
Plot Area, Unit: 293.48 FT2 **Tillage Type:** NOTILL no-till
Replications: 3 **Study Design:** SPLBLO Split-Block

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.6 **Texture:** SIL silt loam
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY SILT LOAM
% Clay: 32 **CEC:** 17 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

Overall Moisture Conditions: WEDRDR wet-dry-dry
Closest Weather Station: SPINDLETOP **Distance, Unit:** 1.25 MI

Application Description

	A	B	C	D	E	F
Application Date:	4-8-2010	4-19-2010	5-6-2010	5-26-2010	6-2-2010	6-2-2010
Time of Day:	4 PM	10 AM	4 PM	3 PM	6 PM	6 PM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	-30D	-14D	PRE	MP	V3	LP
Application Placement:	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	C H SLACK	C H SLACK	C H SLACK	C H SLACK
Air Temperature, Unit:	52 F	54 F	74 F	83 F	88 F	88 F
% Relative Humidity:	71	51	27	46	50	50
Wind Velocity, Unit:	10 MPH	6 MPH	2 MPH	7 MPH	6 MPH	6 MPH
Wind Direction:	WNW	ENE	SW	NNW	SW	SW
Soil Temperature, Unit:	56 F	54 F	69 F	70 F	72 F	72 F
Soil Moisture:	GOOD	SLIDRY	GOOD	GOOD	GOOD	GOOD
% Cloud Cover:	30	10	10	10	30	30
Next Rain Occurred On:	4-16-2010	4-20-2010	5-8-2010	5-30-2010	6-4-2010	6-4-2010

Crop Stage At Each Application

	A	B	C	D	E	F
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:				V3	V4	V4

Pest Stage At Each Application

	A	B	C	D	E	F
Pest 1 Code, Type, Scale:	STEME W	STEME W	STEME W	STEME W	STEME W	STEME W
Height, Unit:	6 IN	6 IN				
Pest 2 Code, Type, Scale:	LAMAM W	LAMAM W	LAMAM W	LAMAM W	LAMAM W	LAMAM W
Height, Unit:	6 IN	6 IN				
Pest 3 Code, Type, Scale:	LACSE W	LACSE W	LACSE W	LACSE W	LACSE W	LACSE W
Height, Unit:	6 IN	6 IN				
Pest 4 Code, Type, Scale:	CHEAL W	CHEAL W	CHEAL W	CHEAL W	CHEAL W	CHEAL W
Height, Unit:	2 IN	2 IN	2.5 IN	4 IN	6 IN	6 IN
Pest 5 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W	AMBTR W	AMBTR W	AMBTR W
Height, Unit:	2 IN	2 IN	3 IN	4 IN	6 IN	6 IN
Pest 6 Code, Type, Scale:	SETFA W	SETFA W	SETFA W	SETFA W	SETFA W	SETFA W
Diameter, Unit:			1 IN	2 IN	4 IN	4 IN

Application Equipment

	A	B	C	D	E	F
Appl. Equipment:	ATV	ATV	ATV	ATV	ATV	ATV
Operating Pressure, Unit:	30 PSI	30 PSI	30 PSI	30 PSI	30 PSI	30 PSI
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN
Nozzle Size:	8004 DG	8004 DG	8004 DG	8004 DG	8004 DG	8004 DG
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN	20 IN	20 IN	20 IN
Boom Length, Unit:	6.67 FT	6.67 FT	6.67 FT	6.67 FT	6.67 FT	6.67 FT
Boom Height, Unit:	30 IN	30 IN	30 IN	30 IN	30 IN	30 IN
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH	4 MPH	4 MPH	4 MPH
Carrier:	WATER	WATER	WATER	WATER	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA	24 GPA	24 GPA	24 GPA	24 GPA
Propellant:	CO2	CO2	CO2	CO2	CO2	CO2

Plant and Soil Science, U of KY
Weed Science Research

NO TILL SOYBEAN LIBERTY LINK EARLY PREPLANT II

Trial ID: S10033 Protocol ID: DUPONT--US-293-10-01
Location: Study Director:
Project ID: Investigator: Charles H Slack
Sponsor Contact:

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9
	Pest Type				W Weed	W Weed	W Weed	W Weed	W Weed			W Weed	W Weed
	Pest Code				STEME	LAMAM	LACSE	CHEAL	AMBTR			SETFA	AMACH
	Pest Scientific Name				Stellaria media	Lamium amplexicaule	Lactuca serriola	Chenopodium album	Ambrosia trifida			Setaria faberi	Amaranthus hybridus
	Pest Name				Common chickweed	Henbit	Prickly lettuce	Common lambsquarters	Giant ragweed			Giant foxtail	Smooth pigweed
	Crop Code									GLXMA	GLXMA		
	BBCH Scale									BSOY	BSOY		
	Crop Scientific Name									Glycine max	Glycine max		
	Crop Name									Soybean	Soybean		
	Rating Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	INJURY	CONTROL	CONTROL
	Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	Number of Subsamples				1	1	1	1	1	1	1	1	1
	SE Description				AFTER 10D	AFTER 10D	AFTER 10D	AFTER 10D	AFTER 10D	AFTER 10D	AFTER POST	AFTER POST	AFTER POST
	Rating Timing				2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK
	ARM Action Codes				P	P	P	P	P	P	P	P	P
	Number of Decimals				0	0	0	0	0	0	0	0	0
1	WEEDONE LV4	1	PT/A	10 D	99	99	99	99	99	0	0	99	99
	ABUNDIT	22	FL OZ/A	10 D									
	AMS	3.7	% V/V	10 D									
	CANOPY EX	1.5	OZ/A	10 D									
	IGNITE 280	22	FL OZ/A	MP									
	SYNCHRONY XP	0.375	OZ/A	MP									
	AMS	3.7	% V/V	MP									
2	WEEDONE LV4	1	PT/A	10 D	99	99	99	99	99	0	0	99	99
	ABUNDIT	22	FL OZ/A	10 D									
	AMS	3.7	% V/V	10 D									
	ENVIVE	3.5	OZ/A	PRE									
	IGNITE 280	22	FL OZ/A	MP									
	SYNCHRONY XP	0.375	OZ/A	MP									
	AMS	3.7	% V/V	MP									
3	WEEDONE LV4	1	PT/A	10 D	99	99	99	99	99	0	0	99	99
	ABUNDIT	22	FL OZ/A	10 D									
	AMS	3.7	% V/V	10 D									
	CANOPY	4	OZ/A	PRE									
	IGNITE 280	22	FL OZ/A	MP									
	SYNCHRONY XP	0.375	OZ/A	MP									
	AMS	3.7	% V/V	MP									
4	WEEDONE LV4	1	PT/A	10 D	99	99	99	99	99	0	0	99	99
	ABUNDIT	22	FL OZ/A	10 D									
	AMS	3.7	% V/V	10 D									
	IGNITE 280	22	FL OZ/A	MP									
	SYNCHRONY XP	0.375	OZ/A	MP									
	AMS	3.7	% V/V	MP									
5	WEEDONE LV4	1	PT/A	10 D	99	99	99	99	99	0	0	99	99
	ABUNDIT	22	FL OZ/A	10 D									
	AMS	3.7	% V/V	10 D									
	IGNITE 280	22	FL OZ/A	MP									
	CLASSIC	0.50	OZ/A	MP									
	AMS	3.7	% V/V	MP									

Plant and Soil Science, U of KY
Weed Science Research

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9
	Pest Type				W Weed	W Weed	W Weed	W Weed	W Weed			W Weed	W Weed
	Pest Code				STEME	LAMAM	LACSE	CHEAL	AMBTR			SETFA	AMACH
	Pest Scientific Name				Stellaria media	Lamium amplexicaule	Lactuca serriola	Chenopodium album	Ambrosia trifida			Setaria faberi	Amaranthus hybridus
	Pest Name				Common chickweed	Henbit	Prickly lettuce	Common lambsquarters	Giant ragweed			Giant foxtail	Smooth pigweed
	Crop Code									GLXMA	GLXMA		
	BBCH Scale									BSOY	BSOY		
	Crop Scientific Name									Glycine max	Glycine max		
	Crop Name									Soybean	Soybean		
	Rating Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	INJURY	CONTROL	CONTROL
	Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	Number of Subsamples				1	1	1	1	1	1	1	1	1
	SE Description				AFTER 10D	AFTER 10D	AFTER 10D	AFTER 10D	AFTER 10D	AFTER 10D	AFTER POST	AFTER POST	AFTER POST
	Rating Timing				2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK
	ARM Action Codes				P	P	P	P	P	P	P	P	P
	Number of Decimals				0	0	0	0	0	0	0	0	0
6	WEEDONE LV4	1	PT/A	10 D	99	99	99	99	99	0	0	99	99
	TOUCHDOWN TOTAL	24	FL OZ/A	10 D									
	AMS	3.7	% V/V	10 D									
	PREFIX	2	PT/A	PRE									
	IGNITE 280	22	FL OZ/A	MP									
	AMS	3.7	% V/V	MP									
7	WEEDONE LV4	1	PT/A	10 D	99	99	99	99	99	0	0	99	99
	TOUCHDOWN TOTAL	24	FL OZ/A	10 D									
	AMS	3.7	% V/V	10 D									
	BOUNDARY	1.5	PT/A	PRE									
	IGNITE 280	22	FL OZ/A	MP									
	AMS	3.7	% V/V	MP									
8	WEEDONE LV4	1	PT/A	10 D	99	99	99	99	99	0	0	99	99
	DURANGO DMA	24	FL OZ/A	10 D									
	AMS	3.7	% V/V	10 D									
	SONIC	3	OZ/A	PRE									
	IGNITE 280	22	FL OZ/A	MP									
	AMS	3.7	% V/V	MP									
9	WEEDONE LV4	1	PT/A	10 D	99	99	99	99	99	0	0	99	99
	ROUNDUP POWERMAX	22	FL OZ/A	10 D									
	AMS	3.7	% V/V	10 D									
	VALOR XLT	3	OZ/A	PRE									
	IGNITE 280	22	FL OZ/A	MP									
	AMS	3.7	% V/V	MP									
10	CHECK UNTREATED				0	0	0	0	0	0	0	0	0
	LSD (P=.05)				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Standard Deviation				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CV				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Bartlett's X2				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	P(Bartlett's X2)				.	.	.	.	.	.	.	.	.
	Replicate F				0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Replicate Prob(F)				1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
	Treatment F				0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Treatment Prob(F)				1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Plant and Soil Science, U of KY
Weed Science Research

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	10	11	12	13	14	15	16
	Pest Type				W Weed	W Weed		W Weed	W Weed	W Weed	W Weed
	Pest Code				CHEAL	AMBTR		SETFA	AMACH	CHEAL	AMBTR
	Pest Scientific Name				Chenopodium album	Ambrosia trifida		Setaria faberi	Amaranthus hybridus	Chenopodium album	Ambrosia trifida
	Pest Name				Common lambsquarters	Giant ragweed		Giant foxtail	Smooth pigweed	Common lambsquarters	Giant ragweed
	Crop Code						GLXMA				
	BBCH Scale						BSOY				
	Crop Scientific Name						Glycine max				
	Crop Name						Soybean				
	Rating Type				CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
	Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	Number of Subsamples				1	1	1	1	1	1	1
	SE Description				AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST
	Rating Timing				2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
	ARM Action Codes				P	P	P	P	P	P	P
	Number of Decimals				0	0	0	0	0	0	0
1	WEEDONE LV4	1	PT/A	10 D	99	99	0	99	99	99	95
	ABUNDIT	22	FL OZ/A	10 D							
	AMS	3.7	% V/V	10 D							
	CANOPY EX	1.5	OZ/A	10 D							
	IGNITE 280	22	FL OZ/A	MP							
	SYNCHRONY XP	0.375	OZ/A	MP							
	AMS	3.7	% V/V	MP							
2	WEEDONE LV4	1	PT/A	10 D	99	99	0	99	99	99	99
	ABUNDIT	22	FL OZ/A	10 D							
	AMS	3.7	% V/V	10 D							
	ENVIVE	3.5	OZ/A	PRE							
	IGNITE 280	22	FL OZ/A	MP							
	SYNCHRONY XP	0.375	OZ/A	MP							
	AMS	3.7	% V/V	MP							
3	WEEDONE LV4	1	PT/A	10 D	99	99	0	99	99	99	98
	ABUNDIT	22	FL OZ/A	10 D							
	AMS	3.7	% V/V	10 D							
	CANOPY	4	OZ/A	PRE							
	IGNITE 280	22	FL OZ/A	MP							
	SYNCHRONY XP	0.375	OZ/A	MP							
	AMS	3.7	% V/V	MP							
4	WEEDONE LV4	1	PT/A	10 D	99	99	0	99	99	99	85
	ABUNDIT	22	FL OZ/A	10 D							
	AMS	3.7	% V/V	10 D							
	IGNITE 280	22	FL OZ/A	MP							
	SYNCHRONY XP	0.375	OZ/A	MP							
	AMS	3.7	% V/V	MP							
5	WEEDONE LV4	1	PT/A	10 D	99	99	0	99	99	99	88
	ABUNDIT	22	FL OZ/A	10 D							
	AMS	3.7	% V/V	10 D							
	IGNITE 280	22	FL OZ/A	MP							
	CLASSIC	0.50	OZ/A	MP							
	AMS	3.7	% V/V	MP							

Plant and Soil Science, U of KY
Weed Science Research

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	10	11	12	13	14	15	16
	Pest Type				W Weed	W Weed		W Weed	W Weed	W Weed	W Weed
	Pest Code				CHEAL	AMBTR		SETFA	AMACH	CHEAL	AMBTR
	Pest Scientific Name				Chenopodium album	Ambrosia trifida		Setaria faberi	Amaranthus hybridus	Chenopodium album	Ambrosia trifida
	Pest Name				Common lambsquarters	Giant ragweed		Giant foxtail	Smooth pigweed	Common lambsquarters	Giant ragweed
	Crop Code						GLXMA				
	BBCH Scale						BSOY				
	Crop Scientific Name						Glycine max				
	Crop Name						Soybean				
	Rating Type				CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
	Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	Number of Subsamples				1	1	1	1	1	1	1
	SE Description				AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST	AFTER POST
	Rating Timing				2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK
	ARM Action Codes				P	P	P	P	P	P	P
	Number of Decimals				0	0	0	0	0	0	0
6	WEEDONE LV4	1	PT/A	10 D	99	99	0	99	99	99	88
	TOUCHDOWN TOTAL	24	FL OZ/A	10 D							
	AMS	3.7	% V/V	10 D							
	PREFIX	2	PT/A	PRE							
	IGNITE 280	22	FL OZ/A	MP							
	AMS	3.7	% V/V	MP							
7	WEEDONE LV4	1	PT/A	10 D	99	99	0	99	99	99	82
	TOUCHDOWN TOTAL	24	FL OZ/A	10 D							
	AMS	3.7	% V/V	10 D							
	BOUNDARY	1.5	PT/A	PRE							
	IGNITE 280	22	FL OZ/A	MP							
	AMS	3.7	% V/V	MP							
8	WEEDONE LV4	1	PT/A	10 D	99	99	0	99	99	99	85
	DURANGO DMA	24	FL OZ/A	10 D							
	AMS	3.7	% V/V	10 D							
	SONIC	3	OZ/A	PRE							
	IGNITE 280	22	FL OZ/A	MP							
	AMS	3.7	% V/V	MP							
9	WEEDONE LV4	1	PT/A	10 D	99	99	0	99	99	99	96
	ROUNDUP POWERMAX	22	FL OZ/A	10 D							
	AMS	3.7	% V/V	10 D							
	VALOR XLT	3	OZ/A	PRE							
	IGNITE 280	22	FL OZ/A	MP							
	AMS	3.7	% V/V	MP							
10	CHECK UNTREATED				0	0	0	0	0	0	0
LSD (P=.05)					0.0	0.0	0.0	0.0	0.0	0.0	9.0
Standard Deviation					0.0	0.0	0.0	0.0	0.0	0.0	5.3
CV					0.0	0.0	0.0	0.0	0.0	0.0	6.45
Bartlett's X2					0.0	0.0	0.0	0.0	0.0	0.0	9.384
P(Bartlett's X2)					.	.	.	.	.	.	0.153
Replicate F					0.000	0.000	0.000	0.000	0.000	0.000	0.535
Replicate Prob(F)					1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.5946
Treatment F					0.000	0.000	0.000	0.000	0.000	0.000	92.829
Treatment Prob(F)					1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0001

Plant and Soil Science, U of KY
Weed Science Research

NO TILL SOYBEAN LIBERTY LINK EARLY PREPLANT II

Trial ID: S10033 Protocol ID: DUPONT--US-293-10-01
Location: Study Director:
Project ID: Investigator: Charles H Slack
Sponsor Contact:

Pest Type
W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop
Pest Code
STEME, Stellaria media, = US
LAMAM, Lamium amplexicaule, = US
LACSE, Lactuca serriola, = US
CHEAL, Chenopodium album, = US
AMBTR, Ambrosia trifida, = US
SETFA, Setaria faberi, = US
AMACH, Amaranthus hybridus, = US
Crop Code
GLXMA, BSOY, Glycine max, = US
Rating Unit
PERCENT = percent
ARM Action Codes
P = Rating scale of 0 to 100 (e.g. % control or injury)

Plant and Soil Science, U of KY
Weed Science Research

NO TILL SOYBEAN LIBERTY LINK EARLY PREPLANT II

Trial ID: S10033 Protocol ID: DUPONT--US-293-10-01
Location: Study Director:
Project ID: Investigator: Charles H Slack
Sponsor Contact:

General Trial Information

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

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 4-28-2010

Trial Location

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

Personnel

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

Other Personnel

Role	Name
Research Analyst	Sara Carter

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: S070147 LL
BBCH Scale: BSOY **Planting Date:** 5-5-2010
Planting Method: DRILLE **Rate, Unit:** 210000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 7.5 IN
Seed Bed: MEDTRA medium/trashy **Soil Temperature, Unit:** 67 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-12-2010

Plant and Soil Science, U of KY
Weed Science Research

Pest Description

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

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

Pest 3 Type: W **Code:** LACSE Lactuca serriola
Common Name: Prickly lettuce

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

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

Pest 6 Type: W **Code:** AMBTR Ambrosia trifida
Common Name: Giant ragweed

Pest 7 Type: W **Code:** AMACH Amaranthus hybridus
Common Name: Smooth pigweed

Site and Design

Plot Width, Unit: 6.66 FT **Site Type:** FIELD field
Plot Length, Unit: 44 FT
Plot Area, Unit: 293.04 FT2 **Tillage Type:** NOTILL no-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:** 17 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

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

Application Description

	A	B	C
Application Date:	4-28-2010	5-6-2010	5-26-2010
Time of Day:	3 PM	4 PM	3 PM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	10D	PRE	MP
Application Placement:	BROFOL	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	C H SLACK
Air Temperature, Unit:	61 F	74 F	83 F
% Relative Humidity:	38	27	46
Wind Velocity, Unit:	8 MPH	2 MPH	7 MPH
Wind Direction:	W	SW	NNW
Soil Temperature, Unit:	52 F	69 F	71 F
Soil Moisture:	EXCELL	GOOD	GOOD
% Cloud Cover:	10	10	10
Next Rain Occurred On:	5-1-2010	5-8-2010	5-30-2010

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
Height, Unit:			10 IN

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Weed Science Research

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	STEME W	STEME W	STEME W
Height, Unit:	2 IN	3 IN	
Pest 2 Code, Type, Scale:	LAMAM W	LAMAM W	LAMAM W
Height, Unit:	3 IN	4 IN	
Pest 3 Code, Type, Scale:	LACSE W	LACSE W	LACSE W
Height, Unit:	4 IN	5 IN	8 IN
Pest 4 Code, Type, Scale:	SETFA W	SETFA W	SETFA W
Height, Unit:		2 IN	4 IN
Pest 5 Code, Type, Scale:	CHEAL W	CHEAL W	CHEAL W
Height, Unit:		1 IN	4 IN
Pest 6 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W
Height, Unit:	2 IN	3 IN	6 IN
Pest 7 Code, Type, Scale:	AMACH W	AMACH W	AMACH W
Height, Unit:		1 IN	3 IN

Application Equipment

	A	B	C
Appl. Equipment:	ATV	ATV	ATV
Operating Pressure, Unit:	30 PSI	30 PSI	30 PSI
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN
Nozzle Size:	8004 DG	8004 DG	8004 DG
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN
Boom Length, Unit:	6.67 FT	6.67 FT	6.67 FT
Boom Height, Unit:	30 IN	30 IN	30 IN
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH
Carrier:	WATER	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA	24 GPA
Propellant:	CO2	CO2	CO2

Plant and Soil Science, U of KY
Weed Science Research

NO TILL SOYBEAN III

Trial ID: S10034 Protocol ID: FMC-FLUTSOY
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: JOSEPH REED

Pest Type			W Weed	W Weed	W Weed	W Weed	W Weed		W Weed	W Weed	W Weed	
Pest Code			SETFA	AMBTR	CHEAL	ERICA	IPOSS		SETFA	AMBTR	CHEAL	
Pest Scientific Name			Setaria faberi	Ambrosia trifida	Chenopodium album	Conyza canadensis	Ipomoea sp.		Setaria faberi	Ambrosia trifida	Chenopodium album	
Pest Name			Giant foxtail	Giant ragweed	Common lambsquarters	Marestail	Morning glory		Giant foxtail	Giant ragweed	Common lambsquarters	
Crop Code		GLXMA						GLXMA				
BBCH Scale		BSOY						BSOY				
Crop Scientific Name		Glycine max						Glycine max				
Crop Name		Soybean						Soybean				
Description												
Rating Type		INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
Number of Subsamples		1	1	1	1	1	1	1	1	1	1	
Rating Timing		2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	
ARM Action Codes		P	P	P	P		P	P	P	P	P	
Number of Decimals		0	0	0	0		0	0	0	0	0	

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9	10
1	SHARPEN	1	OZ/A	PRE	0	99	99	99	99.0	99	0	99	99	99
	SPARTAN	4	OZ/A	PRE										
	CLASSIC	1	OZ/A	PRE										
	CADET	0.5	OZ/A	V3										
	ROUNDUP WeatherMAX	32	OZ/A	V3										
	COC	1	% V/V	V3										
2	SHARPEN	1	OZ/A	PRE	0	99	99	99	99.0	99	0	99	99	99
	SPARTAN	4	OZ/A	PRE										
	CLASSIC	1	OZ/A	PRE										
	CADET	0.7	OZ/A	V3										
	ROUNDUP WeatherMAX	32	OZ/A	V3										
	COC	1	% V/V	V3										
3	SHARPEN	1	OZ/A	PRE	0	99	99	99	99.0	99	0	99	99	99
	SPARTAN	4	OZ/A	PRE										
	CLASSIC	1	OZ/A	PRE										
	CADET	0.9	OZ/A	V3										
	ROUNDUP WeatherMAX	32	OZ/A	V3										
	COC	1	% V/V	V3										
4	SHARPEN	1	OZ/A	PRE	0	99	99	99	99.0	99	0	99	99	99
	SPARTAN	4	OZ/A	PRE										
	CLASSIC	1	OZ/A	PRE										
	RESOURCE	6	OZ/A	V3										
	ROUNDUP WeatherMAX	32	OZ/A	V3										

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Pest Type				W Weed	W Weed	W Weed	W Weed	W Weed		W Weed	W Weed	W Weed	
Pest Code				SETFA	AMBTR	CHEAL	ERICA	IPOSS		SETFA	AMBTR	CHEAL	
Pest Scientific Name				Setaria faberi	Ambrosia trifida	Chenopodium album	Conyza canadensis	Ipomoea sp.		Setaria faberi	Ambrosia trifida	Chenopodium album	
Pest Name				Giant foxtail	Giant ragweed	Common lambsquarters	Marestail	Morning glory		Giant foxtail	Giant ragweed	Common lambsquarters	
Crop Code			GLXMA						GLXMA				
BBCH Scale			BSOY						BSOY				
Crop Scientific Name			Glycine max						Glycine max				
Crop Name			Soybean						Soybean				
Description													
Rating Type			INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	
Rating Unit			PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
Number of Subsamples			1	1	1	1	1	1	1	1	1	1	
Rating Timing			2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	
ARM Action Codes			P	P	P	P		P	P	P	P	P	
Number of Decimals			0	0	0	0		0	0	0	0	0	
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9	10
5	SHARPEN	1	OZ/A	PRE	0	99	99	99	99.0	99	0	99	99	99
	SPARTAN	4	OZ/A	PRE										
	ROUNDUP WeatherMAX	32	OZ/A	V3										
LSD (P=.05)					0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0
Standard Deviation					0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0
CV					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bartlett's X2					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P(Bartlett's X2)					.	.	.	.	.	.	.	.	.	.
Replicate F					0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)					1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F					0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)					1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Plant and Soil Science, U of KY
Weed Science Research

Pest Type					W Weed	W Weed		W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code					ERICA	IPOSS		SETFA	AMBTR	CHEAL	ERICA	IPOSS		
Pest Scientific Name					Conyza canadensis	Ipomoea sp.		Setaria faberi	Ambrosia trifida	Chenopodium album	Conyza canadensis	Ipomoea sp.		
Pest Name					Marestail	Morning glory		Giant foxtail	Giant ragweed	Common lambsquarters	Marestail	Morning glory		
Crop Code							GLXMA							GLXMA
BBCH Scale							BSOY							BSOY
Crop Scientific Name							Glycine max							Glycine max
Crop Name							Soybean							Soybean
Description														13.5%
Rating Type					CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL		YIELD
Rating Unit					PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT		BU/A
Number of Subsamples					1	1	1	1	1	1	1	1		1
Rating Timing					4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK		
ARM Action Codes						P	P	P	P	P		P		TY1
Number of Decimals						0	0	0	0	0		0		0
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	11	12	13	14	15	16	17	18	19	22
1	SHARPEN	1	OZ/A	PRE	99.0	99	0	99	99	99	99.0	99		45
	SPARTAN	4	OZ/A	PRE										
	CLASSIC	1	OZ/A	PRE										
	CADET	0.5	OZ/A	V3										
	ROUNDUP WeatherMAX	32	OZ/A	V3										
	COC	1	% V/V	V3										
2	SHARPEN	1	OZ/A	PRE	99.0	99	0	99	99	99	99.0	99		52
	SPARTAN	4	OZ/A	PRE										
	CLASSIC	1	OZ/A	PRE										
	CADET	0.7	OZ/A	V3										
	ROUNDUP WeatherMAX	32	OZ/A	V3										
	COC	1	% V/V	V3										
3	SHARPEN	1	OZ/A	PRE	99.0	99	0	99	99	99	99.0	99		47
	SPARTAN	4	OZ/A	PRE										
	CLASSIC	1	OZ/A	PRE										
	CADET	0.9	OZ/A	V3										
	ROUNDUP WeatherMAX	32	OZ/A	V3										
	COC	1	% V/V	V3										
4	SHARPEN	1	OZ/A	PRE	99.0	99	0	99	99	99	99.0	99		41
	SPARTAN	4	OZ/A	PRE										
	CLASSIC	1	OZ/A	PRE										
	RESOURCE	6	OZ/A	V3										
	ROUNDUP WeatherMAX	32	OZ/A	V3										

Plant and Soil Science, U of KY
Weed Science Research

Pest Type			W Weed	W Weed		W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code			ERICA	IPOSS		SETFA	AMBTR	CHEAL	ERICA	IPOSS		
Pest Scientific Name			Conyza canadensis	Ipomoea sp.		Setaria faberi	Ambrosia trifida	Chenopodium album	Conyza canadensis	Ipomoea sp.		
Pest Name			Marestail	Morning glory		Giant foxtail	Giant ragweed	Common lambsquarters	Marestail	Morning glory		
Crop Code					GLXMA							GLXMA
BBCH Scale					BSOY							BSOY
Crop Scientific Name					Glycine max							Glycine max
Crop Name					Soybean							Soybean
Description												13.5%
Rating Type			CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL		YIELD
Rating Unit			PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT		BU/A
Number of Subsamples			1	1	1	1	1	1	1	1		1
Rating Timing			4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK		
ARM Action Codes				P	P	P	P	P		P		TY1
Number of Decimals				0	0	0	0	0		0		0
Trt Treatment No. Name	Rate Rate Unit	Growth Stage	11	12	13	14	15	16	17	18	19	22
5 SHARPEN	1 OZ/A	PRE	99.0	99	0	99	99	99	99.0	99		52
SPARTAN	4 OZ/A	PRE										
ROUNDUP WeatherMAX	32 OZ/A	V3										
LSD (P=.05)			0.00	0.0	0.0	0.0	0.0	0.0	0.00	0.0	.	6.6
Standard Deviation			0.00	0.0	0.0	0.0	0.0	0.0	0.00	0.0	.	3.5
CV			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.	7.42
Bartlett's X2			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.	3.247
P(Bartlett's X2)			.	.	.	.	.	.	.	.	.	0.517
Replicate F			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		5.944
Replicate Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000		0.0262
Treatment F			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		5.579
Treatment Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000		0.0191

Plant and Soil Science, U of KY
Weed Science Research

NO TILL SOYBEAN III

Trial ID: S10034 Protocol ID: FMC-FLUTSOY
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: JOSEPH REED

Pest Type
W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop
Pest Code
SETFA, Setaria faberi, = US
AMBTR, Ambrosia trifida, = US
CHEAL, Chenopodium album, = US
ERICA, Conyza canadensis, = US
IPOSS, Ipomoea sp., = US
Crop Code
GLXMA, BSOY, Glycine max, = US
Rating Type
YIELD = yield
Rating Unit
PERCENT = percent
ARM Action Codes
P = Rating scale of 0 to 100 (e.g. % control or injury)
TY1 = 3.821053*[C20]*(100-[C21])/86.5

Plant and Soil Science, U of KY
Weed Science Research

NO TILL SOYBEAN III

Trial ID: S10034 Protocol ID: FMC-FLUTSOY
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: JOSEPH REED

General Trial Information

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Investigator: Charles H. Slack

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5-6-2010

Trial Location

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

Personnel

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Affiliation: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING
Location: LEXINGTON, KY
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu
Mobile No.: 859-227-3355
Investigator: Charles H. Slack
Affiliation: University of Kentucky
Location: Lexington, KY
Postal Code: 40546 **E-mail:** cslack@uky.edu

Other Personnel

Role	Name	Other
Research Analyst	Sara Carter	sara.carter@uky.edu

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AGR 3803
BBCH Scale: BSOY **Planting Date:** 5-6-2010
Planting Method: DRILLE drilled **Rate, Unit:** 210000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 7.5 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 68 F
Soil Moisture: NORMAL normal **Emergence Date:** 5-14-2010
Harvest Date: 10-8-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 38 FT
% Standard Moisture: 13.0

Plant and Soil Science, U of KY
Weed Science Research

Pest Description

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

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

Pest 3 Type: W **Code:** CHEAL Chenopodium album
Common Name: Common lambsquarters

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

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

Site and Design

Plot Width, Unit: 6.67 FT **Site Type:** FIELD field
Plot Length, Unit: 44 FT
Plot Area, Unit: 293.48 FT2 **Tillage Type:** NOTILL no-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:** 17 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

Overall Moisture Conditions: WEDRDR wet-dry-dry
Closest Weather Station: SPINDLETOP **Distance, Unit:** 1.25 MI

Application Description

	A	B
Application Date:	5-6-2010	6-4-2010
Time of Day:	4 PM	11 AM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	V3
Application Placement:	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK
Air Temperature, Unit:	74 F	85 F
% Relative Humidity:	27	50
Wind Velocity, Unit:	2 MPH	6 MPH
Wind Direction:	SW	SW
Soil Temperature, Unit:	68 F	75 F
Soil Moisture:	GOOD	GOOD
% Cloud Cover:	10	20
Next Rain Occurred On:	5-8-2010	6-6-2010

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:		V3

Plant and Soil Science, U of KY
Weed Science Research

Pest Stage At Each Application

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

Application Equipment

	A	B
Appl. Equipment:	ATV	ATV
Operating Pressure, Unit:	30 PSI	30 PSI
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	8004 DG	8004 DG
Nozzle Spacing, Unit:	20 IN	20 IN
Boom Length, Unit:	6.67 FT	6.67 FT
Boom Height, Unit:	30 IN	30 IN
Ground Speed, Unit:	4 MPH	4 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA
Propellant:	CO2	CO2

Plant and Soil Science, U of KY
Weed Science Research

SOYBEAN POSTEMERGENCE

Trial ID: S10040 Protocol ID: MON--2010-01-04-08
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact:

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9
	Pest Type					W Weed	W Weed	W Weed	W Weed		W Weed	W Weed	W Weed
	Pest Code					SETFA	AMBTR	CHEAL	AMACH		SETFA	AMBTR	CHEAL
	Pest Scientific Name					Setaria faberi	Ambrosia trifida	Chenopodium album	Amaranthus hybridus		Setaria faberi	Ambrosia trifida	Chenopodium album
	Pest Name					Giant foxtail	Giant ragweed	Common lambsquarters	Smooth pigweed		Giant foxtail	Giant ragweed	Common lambsquarters
	Crop Code				GLXMA					GLXMA			
	BBCH Scale				BSOY					BSOY			
	Crop Scientific Name				Glycine max					Glycine max			
	Crop Name				Soybean					Soybean			
	Rating Date												
	Rating Type				INJURY	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
	Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	Number of Subsamples				1	1	1	1	1	1	1	1	1
	SE Description				AFTER B APPL.	AFTER B APPL.	AFTER B APPL.	AFTER B APPL.	AFTER B APPL.	AFTER B APPL.	AFTER B APPL.	AFTER B APPL.	AFTER B APPL.
	Rating Timing				1 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	3 WEEK	3 WEEK	3 WEEK
	Days After First/Last Applic.												
	Plant-Eval Interval												
	Days After Emergence												
	ARM Action Codes				P	P	P	P	P	P	P	P	P
	Number of Decimals				0	0	0	0	0				
1	ROUNDUP POWERMAX	0.77	LB AE/A	V2-V3	0	99	99	99	99	0.0	99.0	99.0	99.0
	AMS	2	% W/V	V2-V3									
	ROUNDUP POWERMAX	0.77	LB AE/A	V6-V8									
	AMS	2	% W/V	V6-V8									
	ROUNDUP POWERMAX	0.77	LB AE/A	V9-R1									
	AMS	2	% W/V	V9-R1									
2	ROUNDUP POWERMAX	0.77	LB AE/A	V2-V3	0	99	99	99	99	0.0	99.0	99.0	99.0
	MON 63410	1.125	LB AI/A	V2-V3									
	AMS	2	% W/V	V2-V3									
	ROUNDUP POWERMAX	0.77	LB AE/A	V9-R1									
	AMS	2	% W/V	V9-R1									
	CLASSIC	0.00516	LB AI/A	V9-R1									
3	ROUNDUP POWERMAX	0.77	LB AE/A	V2-V3	0	99	99	99	99	0.0	99.0	99.0	99.0
	MON 63410	1.125	LB AI/A	V2-V3									
	AMS	2	% W/V	V2-V3									
	ROUNDUP POWERMAX	0.77	LB AE/A	V9-R1									
	MON 63410	1.125	LB AI/A	V9-R1									
	AMS	2	% W/V	V9-R1									
4	VALOR SX	0.064	LB AI/A	PRE	0	99	99	99	99	0.0	99.0	99.0	99.0
	ROUNDUP POWERMAX	0.77	LB AE/A	V2-V3									
	MON 63410	1.125	LB AI/A	V2-V3									
	AMS	2	% W/V	V2-V3									
	ROUNDUP POWERMAX	0.77	LB AE/A	V9-R1									
	REFLEX	0.25	LB AI/A	V9-R1									
	AMS	2	% W/V	V9-R1									

Plant and Soil Science, U of KY
Weed Science Research

Pest Type					W Weed	W Weed	W Weed	W Weed			W Weed	W Weed	W Weed		
Pest Code					SETFA	AMBTR	CHEAL	AMACH			SETFA	AMBTR	CHEAL		
Pest Scientific Name					Setaria faberi	Ambrosia trifida	Chenopodium album	Amaranthus hybridus			Setaria faberi	Ambrosia trifida	Chenopodium album		
Pest Name					Giant foxtail	Giant ragweed	Common lambsquarters	Smooth pigweed			Giant foxtail	Giant ragweed	Common lambsquarters		
Crop Code				GLXMA						GLXMA					
BBCH Scale				BSOY						BSOY					
Crop Scientific Name				Glycine max						Glycine max					
Crop Name				Soybean						Soybean					
Rating Date															
Rating Type				INJURY	CONTROL	CONTROL	CONTROL	CONTROL		INJURY	CONTROL	CONTROL	CONTROL		
Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT		PERCENT	PERCENT	PERCENT	PERCENT		
Number of Subsamples				1	1	1	1	1		1	1	1	1		
SE Description				AFTER B APPL.	AFTER B APPL.	AFTER B APPL.	AFTER B APPL.	AFTER B APPL.		AFTER B APPL.	AFTER B APPL.	AFTER B APPL.	AFTER B APPL.		
Rating Timing				1 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK		2 WEEK	3 WEEK	3 WEEK	3 WEEK		
Days After First/Last Applic.															
Plant-Eval Interval															
Days After Emergence															
ARM Action Codes				P	P	P	P	P		P	P	P	P		
Number of Decimals				0	0	0	0	0							

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9
5	AUTHORITY MTZ	0.28	LB AI/A	PRE	0	99	99	99	99	0.0	99.0	99.0	99.0
	ROUNDUP POWERMAX	0.77	LB AE/A	V2-V3									
	MON 63410	1.125	LB AI/A	V2-V3									
	AMS	2	% W/V	V2-V3									
	ROUNDUP POWERMAX	0.77	LB AE/A	V9-R1									
	REFLEX	0.25	LB AI/A	V9-R1									
	AMS	2	% W/V	V9-R1									
6	ROUNDUP POWERMAX	0.77	LB AE/A	V2-V3	0	99	99	99	99	0.0	99.0	99.0	99.0
	DUAL MAGNUM	1.3	LB AI/A	V2-V3									
	AMS	2	% W/V	V2-V3									
	ROUNDUP POWERMAX	0.77	LB AE/A	V9-R1									
	AMS	2	% W/V	V9-R1									
	CLASSIC	0.00516	LB AI/A	V9-R1									
LSD (P=.05)					0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
Standard Deviation					0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
CV					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bartlett's X2					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P(Bartlett's X2)					.	.	.	.	.	.	.	.	.
Replicate F					0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)					1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F					0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)					1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Plant and Soil Science, U of KY
Weed Science Research

Pest Type				W Weed			W Weed	W Weed		W Weed		W Weed		
Pest Code				AMACH			SETFA	AMBTR		CHEAL		AMACH		
Pest Scientific Name				Amaranthus hybridus			Setaria faberi	Ambrosia trifida		Chenopodium album		Amaranthus hybridus		
Pest Name				Smooth pigweed			Giant foxtail	Giant ragweed		Common lambsquarters		Smooth pigweed		
Crop Code					GLXMA									GLXMA
BBCH Scale					BSOY									BSOY
Crop Scientific Name					Glycine max									Glycine max
Crop Name					Soybean									Soybean
Rating Date														9-9-2010
Rating Type				CONTROL	INJURY		CONTROL	CONTROL		CONTROL		CONTROL		YIELD
Rating Unit				PERCENT	PERCENT		PERCENT	PERCENT		PERCENT		PERCENT		BU
Number of Subsamples				1	1		1	1		1		1		1
SE Description				AFTER B APPL.	AFTER B APPL.		AFTER B APPL.	AFTER B APPL.		AFTER B APPL.		AFTER B APPL.		
Rating Timing				3 WEEK	8 WEEK		8 WEEK	8 WEEK		8 WEEK		8 WEEK		
Days After First/Last Applic.														125 77
Plant-Eval Interval														125 DP-1
Days After Emergence														117 DE
ARM Action Codes				P	P		P	P		P		P		TY1
Number of Decimals														0
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	10		11	12	13		14	15		18
1	ROUNDUP POWERMAX	0.77	LB AE/A	V2-V3	99.0		0.0	99.0	99.0		99.0	99.0		73
	AMS	2	% W/V	V2-V3										
	ROUNDUP POWERMAX	0.77	LB AE/A	V6-V8										
	AMS	2	% W/V	V6-V8										
	ROUNDUP POWERMAX	0.77	LB AE/A	V9-R1										
	AMS	2	% W/V	V9-R1										
2	ROUNDUP POWERMAX	0.77	LB AE/A	V2-V3	99.0		0.0	99.0	99.0		99.0	99.0		56
	MON 63410	1.125	LB AI/A	V2-V3										
	AMS	2	% W/V	V2-V3										
	ROUNDUP POWERMAX	0.77	LB AE/A	V9-R1										
	AMS	2	% W/V	V9-R1										
	CLASSIC	0.00516	LB AI/A	V9-R1										
3	ROUNDUP POWERMAX	0.77	LB AE/A	V2-V3	99.0		0.0	99.0	99.0		99.0	99.0		57
	MON 63410	1.125	LB AI/A	V2-V3										
	AMS	2	% W/V	V2-V3										
	ROUNDUP POWERMAX	0.77	LB AE/A	V9-R1										
	MON 63410	1.125	LB AI/A	V9-R1										
	AMS	2	% W/V	V9-R1										
4	VALOR SX	0.064	LB AI/A	PRE	99.0		0.0	99.0	99.0		99.0	99.0		67
	ROUNDUP POWERMAX	0.77	LB AE/A	V2-V3										
	MON 63410	1.125	LB AI/A	V2-V3										
	AMS	2	% W/V	V2-V3										
	ROUNDUP POWERMAX	0.77	LB AE/A	V9-R1										
	REFLEX	0.25	LB AI/A	V9-R1										
	AMS	2	% W/V	V9-R1										

Plant and Soil Science, U of KY
Weed Science Research

Pest Type				W Weed			W Weed	W Weed		W Weed		W Weed		
Pest Code				AMACH			SETFA	AMBTR		CHEAL		AMACH		
Pest Scientific Name				Amaranthus hybridus			Setaria faberi	Ambrosia trifida		Chenopodium album		Amaranthus hybridus		
Pest Name				Smooth pigweed			Giant foxtail	Giant ragweed		Common lambsquarters		Smooth pigweed		
Crop Code					GLXMA									GLXMA
BBCH Scale					BSOY									BSOY
Crop Scientific Name					Glycine max									Glycine max
Crop Name					Soybean									Soybean
Rating Date														9-9-2010
Rating Type				CONTROL	INJURY		CONTROL	CONTROL		CONTROL		CONTROL		YIELD
Rating Unit				PERCENT	PERCENT		PERCENT	PERCENT		PERCENT		PERCENT		BU
Number of Subsamples				1	1		1	1		1		1		1
SE Description				AFTER B APPL.	AFTER B APPL.		AFTER B APPL.	AFTER B APPL.		AFTER B APPL.		AFTER B APPL.		
Rating Timing				3 WEEK	8 WEEK		8 WEEK	8 WEEK		8 WEEK		8 WEEK		
Days After First/Last Applic.														125 77
Plant-Eval Interval														125 DP-1
Days After Emergence														117 DE
ARM Action Codes				P	P		P	P		P		P		TY1
Number of Decimals														0
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	10		11	12	13		14	15		18
5	AUTHORITY MTZ	0.28	LB AI/A	PRE	99.0		0.0	99.0	99.0		99.0	99.0		61
	ROUNDUP POWERMAX	0.77	LB AE/A	V2-V3										
	MON 63410	1.125	LB AI/A	V2-V3										
	AMS	2	% W/V	V2-V3										
	ROUNDUP POWERMAX	0.77	LB AE/A	V9-R1										
	REFLEX	0.25	LB AI/A	V9-R1										
	AMS	2	% W/V	V9-R1										
6	ROUNDUP POWERMAX	0.77	LB AE/A	V2-V3	99.0		0.0	99.0	99.0		99.0	99.0		67
	DUAL MAGNUM	1.3	LB AI/A	V2-V3										
	AMS	2	% W/V	V2-V3										
	ROUNDUP POWERMAX	0.77	LB AE/A	V9-R1										
	AMS	2	% W/V	V9-R1										
	CLASSIC	0.00516	LB AI/A	V9-R1										
LSD (P=.05)					0.00		0.00	0.00	0.00		0.00	0.00		10.5
Standard Deviation					0.00		0.00	0.00	0.00		0.00	0.00		6.9
CV					0.0		0.0	0.0	0.0		0.0	0.0		10.92
Bartlett's X2					0.0		0.0	0.0	0.0		0.0	0.0		6.47
P(Bartlett's X2)					.		.	.	.		.	.		0.263
Replicate F					0.000		0.000	0.000	0.000		0.000	0.000		0.511
Replicate Prob(F)					1.0000		1.0000	1.0000	1.0000		1.0000	1.0000		0.6806
Treatment F					0.000		0.000	0.000	0.000		0.000	0.000		3.517
Treatment Prob(F)					1.0000		1.0000	1.0000	1.0000		1.0000	1.0000		0.0265

Plant and Soil Science, U of KY
Weed Science Research

SOYBEAN POSTEMERGENCE

Trial ID: S10040 Protocol ID: MON--2010-01-04-08
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact:

Pest Type
W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop
Pest Code
SETFA, Setaria faberi, = US
AMBTR, Ambrosia trifida, = US
CHEAL, Chenopodium album, = US
AMACH, Amaranthus hybridus, = US
Crop Code
GLXMA, BSOY, Glycine max, = US
Rating Type
YIELD = yield
Rating Unit
PERCENT = percent
BU = bushel
Plant-Eval Interval
125 DP-1 = 1 5-7-2010
ARM Action Codes
P = Rating scale of 0 to 100 (e.g. % control or injury)
TY1 = 5.841379*17

Plant and Soil Science, U of KY
Weed Science Research

SOYBEAN POSTEMERGENCE

Trial ID: S10040 Protocol ID: MON--2010-01-04-08
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact:

General Trial Information

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Investigator: Charles H. Slack

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5-7-2010

Trial Location

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

Personnel

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Affiliation: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING
Location: LEXINGTON, KY
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu
Mobile No.: 859-227-3355
Investigator: Charles H. Slack
Affiliation: University of Kentucky
Location: Lexington, KY
Postal Code: 40546 **E-mail:** cslack@uky.edu

Other Personnel

Role	Name	Other
Research Analyst	Sara Carter	sara.carter@uky.edu

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: ASGROW 3803
BBCH Scale: BSOY **Planting Date:** 5-7-2010
Planting Method: ROW planted **Rate, Unit:** 190000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 72 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-15-2010
Harvest Date: 9-9-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 26 FT
% Standard Moisture: 13.0

Plant and Soil Science, U of KY
Weed Science Research

Pest Description

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

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

Pest 3 Type: W **Code:** CHEAL Chenopodium album
Common Name: Common lambsquarters

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

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD field
Plot Length, Unit: 33 FT
Plot Area, Unit: 330 FT2 **Tillage Type:** CONTIL conventional-till
Replications: 4 **Study Design:** 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:** 17 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

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

Application Description

	A	B	C	D
Application Date:	5-7-2010	6-2-2010	6-16-2010	6-24-2010
Time of Day:	2 PM	5 PM	11 AM	10 AM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	V2-V3	V6-V8	V9-R1
Application Placement:	BROSOI	BROFOL	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	SARA CARTER	SARA CARTER
Air Temperature, Unit:	80 F	88 F	85 F	82 F
% Relative Humidity:	40	50	30	40
Wind Velocity, Unit:	10 MPH	6 MPH	6 MPH	6 MPH
Wind Direction:	SW	SW	SW	SW
Soil Temperature, Unit:	76 F	74 F	77 F	78 F
Soil Moisture:	GOOD	GOOD	GOOD	GOOD
% Cloud Cover:	10	10	10	20
Next Rain Occurred On:	5-8-2010	6-4-2010	6-19-2010	6-28-2010

Crop Stage At Each Application

	A	B	C	D
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
Height, Unit:		6 IN	12 IN	20 IN

Plant and Soil Science, U of KY
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Pest Stage At Each Application

	A	B	C	D
Pest 1 Code, Type, Scale:	SETFA W	SETFA W	SETFA W	SETFA W
Height, Unit:		4 IN	5 IN	6 IN
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W	AMBTR W
Height, Unit:		6 IN	8 IN	12 IN
Pest 3 Code, Type, Scale:	CHEAL W	CHEAL W	CHEAL W	CHEAL W
Height, Unit:		4 IN	5 IN	5 IN
Pest 4 Code, Type, Scale:	AMACH W	AMACH W	AMACH W	AMACH W
Height, Unit:		3 IN	4 IN	4 IN

Application Equipment

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

Plant and Soil Science, U of KY
Weed Science Research

SOYBEAN POSTEMERGENCE II

Trial ID: S10041 Protocol ID: S10023
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: SCOTT CULLY

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9	10
	Pest Type					W Weed	W Weed	W Weed		W Weed	W Weed	W Weed		W Weed
	Pest Code					SETFA	AMBTR	AMACH		SETFA	AMBTR	AMACH		SETFA
	Pest Scientific Name					Setaria faberi	Ambrosia trifida	Amaranthus hybridus		Setaria faberi	Ambrosia trifida	Amaranthus hybridus		Setaria faberi
	Pest Name					Giant foxtail	Giant ragweed	Smooth pigweed		Giant foxtail	Giant ragweed	Smooth pigweed		Giant foxtail
	Crop Code				GLXMA				GLXMA				GLXMA	
	BBCH Scale				BSOY				BSOY				BSOY	
	Crop Scientific Name				Glycine max				Glycine max				Glycine max	
	Crop Name				Soybean				Soybean				Soybean	
	Rating Type				INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
	Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	Number of Subsamples				1	1	1	1	1	1	1	1	1	1
	Rating Timing				2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK
	ARM Action Codes				P	P	P	P	P	P	P	P	P	P
	Number of Decimals				0	0	0	0	0	0	0		0	0
1	CHECK UNTREATED				0	0	0	0	0	0	0	0.0	0	0
2	PREFIX	2	PT/A	PRE	0	99	99	99	0	99	99	99.0	0	99
	TOUCHDOWN TOTAL	24	FL OZ/A	MP										
	N-PAK AMS LIQUID	2.5	% V/V	MP										
3	BOUNDARY	1.5	PT/A	PRE	0	99	99	99	0	96	99	99.0	0	96
	TOUCHDOWN TOTAL	24	FL OZ/A	MP										
	N-PAK AMS LIQUID	2.5	% V/V	MP										
4	TOUCHDOWN TOTAL	24	FL OZ/A	EP	0	99	99	99	0	99	99	99.0	0	99
	N-PAK AMS LIQUID	2.5	% V/V	EP										
	TOUCHDOWN TOTAL	24	FL OZ/A	LP										
	N-PAK AMS LIQUID	2.5	% V/V	LP										
5	TOUCHDOWN TOTAL	24	FL OZ/A	MP	0	99	99	99	0	95	99	99.0	0	95
	N-PAK AMS LIQUID	2.5	% V/V	MP										
6	PREFIX	2	PT/A	EP	0	99	99	99	0	99	99	99.0	0	99
	TOUCHDOWN TOTAL	24	FL OZ/A	EP										
	N-PAK AMS LIQUID	2.5	% V/V	EP										
	TOUCHDOWN TOTAL	24	FL OZ/A	LP										
	N-PAK AMS LIQUID	2.5	% V/V	LP										
7	BOUNDARY	1.5	PT/A	PRE	0	99	99	99	0	99	98	99.0	0	99
	TOUCHDOWN TOTAL	24	FL OZ/A	MP										
	N-PAK AMS LIQUID	2.5	% V/V	MP										
8	FLEXSTAR GT	2.25	PT/A	EP	0	99	99	99	0	99	99	99.0	0	99
	N-PAK AMS LIQUID	2.5	% V/V	EP										
	FLEXSTAR GT	2.25	PT/A	LP										
	N-PAK AMS LIQUID	2.5	% V/V	LP										
9	VALOR XLT	3	OZ/A	PRE	0	99	99	99	0	99	96	99.0	0	99
	ROUNDUP POWERMAX	22	FL OZ/A	MP										
	N-PAK AMS LIQUID	2.5	% V/V	MP										
10	MON 63410	3	PT/A	EP	0	99	99	99	0	99	99	99.0	0	99
	ROUNDUP POWERMAX	22	FL OZ/A	EP										
	N-PAK AMS LIQUID	2.5	% V/V	EP										
	ROUNDUP POWERMAX	22	FL OZ/A	LP										
	N-PAK AMS LIQUID	2.5	% V/V	LP										

Plant and Soil Science, U of KY
Weed Science Research

Pest Type				W Weed	W Weed	W Weed		W Weed	W Weed	W Weed		W Weed
Pest Code				SETFA	AMBTR	AMACH		SETFA	AMBTR	AMACH		SETFA
Pest Scientific Name				Setaria faberi	Ambrosia trifida	Amaranthus hybridus		Setaria faberi	Ambrosia trifida	Amaranthus hybridus		Setaria faberi
Pest Name				Giant foxtail	Giant ragweed	Smooth pigweed		Giant foxtail	Giant ragweed	Smooth pigweed		Giant foxtail
Crop Code			GLXMA				GLXMA				GLXMA	
BBCH Scale			BSOY				BSOY				BSOY	
Crop Scientific Name			Glycine max				Glycine max				Glycine max	
Crop Name			Soybean				Soybean				Soybean	
Rating Type			INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit			PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples			1	1	1	1	1	1	1	1	1	1
Rating Timing			2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK
ARM Action Codes			P	P	P	P	P	P	P	P	P	P
Number of Decimals			0	0	0	0	0	0	0		0	0

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9	10
11	SONIC	3.22	OZ/A	PRE	0	99	99	99	0	99	95	99.0	0	99
	DURANGO DMA	24	FL OZ/A	MP										
	N-PAK AMS LIQUID	2.5	% V/V	MP										
12	OPTILL	1.5	OZ/A	PRE	0	99	99	99	0	99	99	99.0	0	99
	ROUNDUP POWERMAX	22	FL OZ/A	MP										
	N-PAK AMS LIQUID	2.5	% V/V	MP										
13	FIERCE	3	OZ/A	PRE	13	99	99	99	7	99	67	99.0	13	99
14	VALOR XLT	2	OZ/A	PRE	0	99	99	99	0	99	89	99.0	0	99
LSD (P=.05)					2.6	0.0	0.0	0.0	1.3	3.5	6.9	0.00	2.6	3.5
Standard Deviation					1.5	0.0	0.0	0.0	0.8	2.1	4.1	0.00	1.5	2.1
CV					162.02	0.0	0.0	0.0	162.02	2.31	4.69	0.0	162.02	2.31
Bartlett's X2					0.0	0.0	0.0	0.0	0.0	0.079	11.114	0.0	0.0	0.079
P(Bartlett's X2)					.	.	.	.	.	0.779	0.025*	.	.	0.779
Replicate F					1.000	0.000	0.000	0.000	1.000	2.142	3.478	0.000	1.000	2.142
Replicate Prob(F)					0.3816	1.0000	1.0000	1.0000	0.3816	0.1377	0.0459	1.0000	0.3816	0.1377
Treatment F					16.000	0.000	0.000	0.000	16.000	468.396	126.302	0.000	16.000	468.396
Treatment Prob(F)					0.0001	1.0000	1.0000	1.0000	0.0001	0.0001	0.0001	1.0000	0.0001	0.0001

Plant and Soil Science, U of KY
Weed Science Research

Pest Type				W Weed		W Weed		
Pest Code				AMBTR		AMACH		
Pest Scientific Name				Ambrosia trifida		Amaranthus hybridus		
Pest Name				Giant ragweed		Smooth pigweed		
Crop Code								GLXMA
BBCH Scale								BSOY
Crop Scientific Name								Glycine max
Crop Name								Soybean
Rating Type				CONTROL		CONTROL		YIELD
Rating Unit				PERCENT		PERCENT		BU
Number of Subsamples				1		1		1
Rating Timing				8 WEEK		8 WEEK		
ARM Action Codes				P		P		TY1
Number of Decimals				0				0
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	11	12		16
1	CHECK UNTREATED				0	0.0		9
2	PREFIX	2	PT/A	PRE	99	99.0		57
	TOUCHDOWN TOTAL	24	FL OZ/A	MP				
	N-PAK AMS LIQUID	2.5	% V/V	MP				
3	BOUNDARY	1.5	PT/A	PRE	99	99.0		56
	TOUCHDOWN TOTAL	24	FL OZ/A	MP				
	N-PAK AMS LIQUID	2.5	% V/V	MP				
4	TOUCHDOWN TOTAL	24	FL OZ/A	EP	99	99.0		58
	N-PAK AMS LIQUID	2.5	% V/V	EP				
	TOUCHDOWN TOTAL	24	FL OZ/A	LP				
	N-PAK AMS LIQUID	2.5	% V/V	LP				
5	TOUCHDOWN TOTAL	24	FL OZ/A	MP	99	99.0		54
	N-PAK AMS LIQUID	2.5	% V/V	MP				
6	PREFIX	2	PT/A	EP	99	99.0		58
	TOUCHDOWN TOTAL	24	FL OZ/A	EP				
	N-PAK AMS LIQUID	2.5	% V/V	EP				
	TOUCHDOWN TOTAL	24	FL OZ/A	LP				
	N-PAK AMS LIQUID	2.5	% V/V	LP				
7	BOUNDARY	1.5	PT/A	PRE	98	99.0		55
	TOUCHDOWN TOTAL	24	FL OZ/A	MP				
	N-PAK AMS LIQUID	2.5	% V/V	MP				
8	FLEXSTAR GT	2.25	PT/A	EP	99	99.0		60
	N-PAK AMS LIQUID	2.5	% V/V	EP				
	FLEXSTAR GT	2.25	PT/A	LP				
	N-PAK AMS LIQUID	2.5	% V/V	LP				
9	VALOR XLT	3	OZ/A	PRE	96	99.0		54
	ROUNDUP POWERMAX	22	FL OZ/A	MP				
	N-PAK AMS LIQUID	2.5	% V/V	MP				
10	MON 63410	3	PT/A	EP	99	99.0		57
	ROUNDUP POWERMAX	22	FL OZ/A	EP				
	N-PAK AMS LIQUID	2.5	% V/V	EP				
	ROUNDUP POWERMAX	22	FL OZ/A	LP				
	N-PAK AMS LIQUID	2.5	% V/V	LP				

Plant and Soil Science, U of KY
Weed Science Research

Pest Type				W Weed	W Weed		
Pest Code				AMBTR	AMACH		
Pest Scientific Name				Ambrosia trifida	Amaranthus hybridus		
Pest Name				Giant ragweed	Smooth pigweed		
Crop Code							GLXMA
BBCH Scale							BSOY
Crop Scientific Name							Glycine max
Crop Name							Soybean
Rating Type				CONTROL	CONTROL		YIELD
Rating Unit				PERCENT	PERCENT		BU
Number of Subsamples				1	1		1
Rating Timing				8 WEEK	8 WEEK		
ARM Action Codes				P	P		TY1
Number of Decimals				0			0
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	11	12	16
11	SONIC	3.22	OZ/A	PRE	95	99.0	59
	DURANGO DMA	24	FL OZ/A	MP			
	N-PAK AMS LIQUID	2.5	% V/V	MP			
12	OPTILL	1.5	OZ/A	PRE	99	99.0	54
	ROUNDUP POWERMAX	22	FL OZ/A	MP			
	N-PAK AMS LIQUID	2.5	% V/V	MP			
13	FIERCE	3	OZ/A	PRE	82	99.0	41
14	VALOR XLT	2	OZ/A	PRE	86	99.0	50
LSD (P=.05)					5.5	0.00	6.3
Standard Deviation					3.3	0.00	3.8
CV					3.66	0.0	7.29
Bartlett's X2					6.755	0.0	13.384
P(Bartlett's X2)					0.149	.	0.419
Replicate F					4.245	0.000	5.593
Replicate Prob(F)					0.0254	1.0000	0.0095
Treatment F					193.769	0.000	37.175
Treatment Prob(F)					0.0001	1.0000	0.0001

Plant and Soil Science, U of KY
Weed Science Research

SOYBEAN POSTEMERGENCE II

Trial ID: S10041 Protocol ID: S10023
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H 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
AMACH, Amaranthus hybridus, = US
Crop Code
GLXMA, BSOY, Glycine max, = US
Rating Type
YIELD = yield
Rating Unit
PERCENT = percent
BU = bushel
ARM Action Codes
P = Rating scale of 0 to 100 (e.g. % control or injury)
TY1 = 3.821053*14*(100-15)/86.5

Plant and Soil Science, U of KY
Weed Science Research

SOYBEAN POSTEMERGENCE II

Trial ID: S10041 Protocol ID: S10023
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: SCOTT CULLY

General Trial Information

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Investigator: Charles H. Slack

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5-7-2010

Trial Location

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

Personnel

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST
Affiliation: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING
Location: LEXINGTON, KY
Postal Code: 40546-0312 **E-mail:** cslack@uky.edu
Mobile No.: 859-227-3355
Investigator: Charles H. Slack
Affiliation: University of Kentucky
Location: Lexington, KY
Postal Code: 40546 **E-mail:** cslack@uky.edu

Other Personnel

Role	Name	Other
Research Analyst	Sara Carter	sara.carter@uky.edu

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AGR 3803
BBCH Scale: BSOY **Planting Date:** 5-7-2010
Planting Method: DRILLE drilled **Rate, Unit:** 210000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 7.5 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 75 F
Soil Moisture: NORMAL normal **Emergence Date:** 5-13-2010
Harvest Date: 10-8-2010 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 38 FT
% Standard Moisture: 13.0

Pest Description

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

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

Pest 3 Type: W **Code:** AMACH Amaranthus hybridus
Common Name: Smooth pigweed

Plant and Soil Science, U of KY
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Site and Design

Plot Width, Unit: 6.67 FT **Site Type:** FIELD field
Plot Length, Unit: 44 FT
Plot Area, Unit: 293.48 FT2 **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:** 17 **Fert. Level:** E excellent
Soil Drainage: E excellent

Moisture and Weather Conditions

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

Application Description

	A	B	C	D
Application Date:	5-7-2010	5-26-2010	6-4-2010	6-16-2010
Time of Day:	2 PM	3 PM	11 AM	2 PM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	EP	MP	LP
Application Placement:	BROSOI	BROFOL	BROFOL	BROFOL
Applied By:	C H SLACK	C H SLACK	C H SLACK	SARA CARTER
Air Temperature, Unit:	80 F	83 F	80 F	88 F
% Relative Humidity:	40	46	50	50
Wind Velocity, Unit:	10 MPH	7 MPH	6 MPH	4 MPH
Wind Direction:		NNW	SW	SW
Soil Temperature, Unit:	75 F	70 F	72 F	76 F
Soil Moisture:	GOOD	GOOD	GOOD	GOOD
% Cloud Cover:	10	10	20	10
Next Rain Occurred On:	5-8-2010	5-30-2010	6-6-2010	6-19-2010

Crop Stage At Each Application

	A	B	C	D
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
Height, Unit:		3 IN	4 IN	6 IN

Pest Stage At Each Application

	A	B	C	D
Pest 1 Code, Type, Scale:	SETFA W	SETFA W	SETFA W	SETFA W
Height, Unit:		2 IN	2.5 IN	3 IN
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W	AMBTR W
Height, Unit:		3 IN	4 IN	5 IN
Pest 3 Code, Type, Scale:	AMACH W	AMACH W	AMACH W	AMACH W
Height, Unit:		2 IN	3 IN	4 IN

Application Equipment

	A	B	C	D
Appl. Equipment:	ATV	ATV	ATV	BACKPACK
Operating Pressure, Unit:	30 PSI	30 PSI	30 PSI	30 PSI
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN
Nozzle Size:	8004 DG	8004 DG	8004 DG	8004 DG
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN	20 IN
Boom Length, Unit:	6.67 FT	6.67 FT	6.67 FT	6.67 FT
Boom Height, Unit:	30 IN	30 IN	30 IN	30 IN
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH	4 MPH
Carrier:	WATER	WATER	WATER	WATER
Spray Volume, Unit:	24 GPA	24 GPA	24 GPA	24 GPA
Propellant:	CO2	CO2	CO2	CO2

Plant and Soil Science, U of KY
Weed Science Research

SOYBEAN POSTEMERGENCE III

Trial ID: S10042 Protocol ID: VALENT-SB-PRE
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: JOHN CRANMER

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9	10
	Pest Type					W Weed	W Weed	W Weed		W Weed	W Weed	W Weed	W Weed	W Weed
	Pest Code					SETFA	AMBTR	AMACH		SETFA	AMBTR	AMACH	SETFA	AMBTR
	Pest Scientific Name					Setaria faberi	Ambrosia trifida	Amaranthus hybridus		Setaria faberi	Ambrosia trifida	Amaranthus hybridus	Setaria faberi	Ambrosia trifida
	Pest Name					Giant foxtail	Giant ragweed	Smooth pigweed		Giant foxtail	Giant ragweed	Smooth pigweed	Giant foxtail	Giant ragweed
	Crop Code				GLXMA				GLXMA					
	BBCH Scale				BSOY				BSOY					
	Crop Scientific Name				Glycine max				Glycine max					
	Crop Name				Soybean				Soybean					
	Rating Date				5-21-2010	5-21-2010	5-21-2010	5-21-2010	6-4-2010	6-4-2010	6-4-2010	6-4-2010	6-11-2010	6-11-2010
	Rating Type				INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
	Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	Number of Subsamples				1	1	1	1	1	1	1	1	1	1
	Rating Timing				2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	5 WEEK	5 WEEK
	Days After First/Last Applic.				14 14	14 14	14 14	14 14	28 28	28 28	28 28	28 28	35 35	35 35
	Trt-Eval Interval				14 DA-A	14 DA-A	14 DA-A	14 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A
	Plant-Eval Interval				14 DP-1	14 DP-1	14 DP-1	14 DP-1	28 DP-1	28 DP-1	28 DP-1	28 DP-1	35 DP-1	35 DP-1
	Days After Emergence				8 DE-1	8 DE-1	8 DE-1	8 DE-1	22 DE-	22 DE-	22 DE-	22 DE-	29 DE-	29 DE-
	ARM Action Codes				P	P	P	P	P	P	P	P	P	P
	Number of Decimals				0	0	0	0	0	0	0	0	0	0
1	CHECK UNTREATED				0	0	0	0	0	0	0	0	0	0
2	VALOR SX	2	OZ/A	PRE	0	99	95	99	0	96	87	99	96	87
3	VALOR XLT	3	OZ/A	PRE	3	99	99	99	3	99	99	99	99	99
4	GANGSTER FR	0.4	OZ/A	PRE	2	99	99	99	0	99	99	99	99	99
	GANGSTER V	2	OZ/A	PRE										
5	FIERCE	3	OZ/A	PRE	13	99	93	99	13	99	93	99	99	93
6	AUTHORITY ASSIST	5	FL OZ/A	PRE	0	99	95	99	0	99	88	99	99	88
7	PREFIX	1	QT/A	PRE	0	99	99	99	0	99	96	99	99	96
8	AUTHORITY FIRST	3.2	OZ/A	PRE	0	99	99	99	0	99	99	99	99	99
9	FIERCE	3.75	OZ/A	PRE	17	99	95	99	15	99	93	99	99	93
10	OPTILL	2	OZ/A	PRE	2	99	99	99	0	99	96	99	99	96
11	V-10206	1	OZ/A	PRE	20	99	99	99	15	99	99	99	99	99
	VALOR XLT	3	OZ/A	PRE										
12	PROWL H20	2.5	PT/A	PRE	0	99	85	99	0	99	70	99	99	70
13	VALOR SX	2	OZ/A	PRE	2	99	99	99	0	99	92	99	99	92
	V-10206	1	OZ/A	PRE										
	LSD (P=.05)				7.3	0.0	1.3	0.0	7.2	2.4	4.3	0.0	2.4	4.3
	Standard Deviation				4.3	0.0	0.8	0.0	4.2	1.4	2.5	0.0	1.4	2.5
	CV				95.95	0.0	0.9	0.0	118.19	1.58	2.97	0.0	1.58	2.97
	Bartlett's X2				5.158	0.0	0.0	0.0	0.611	0.0	2.454	0.0	0.0	2.454
	P(Bartlett's X2)				0.524	.	.	.	0.894	.	0.874	.	.	0.874
	Replicate F				0.138	0.000	1.000	0.000	0.036	1.000	2.408	0.000	1.000	2.408
	Replicate Prob(F)				0.8715	1.0000	0.3827	1.0000	0.9651	0.3827	0.1114	1.0000	0.3827	0.1114
	Treatment F				8.271	0.000	3417.860	0.000	6.546	1084.500	337.090	0.000	1084.500	337.090
	Treatment Prob(F)				0.0001	1.0000	0.0001	1.0000	0.0001	0.0001	0.0001	1.0000	0.0001	0.0001

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Pest Type			W Weed		W Weed	W Weed	W Weed		W Weed	W Weed	W Weed	W Weed
Pest Code			AMACH		SETFA	AMBTR	AMACH		SETFA	AMBTR	AMACH	SETFA
Pest Scientific Name			Amaranthus hybridus		Setaria faberi	Ambrosia trifida	Amaranthus hybridus		Setaria faberi	Ambrosia trifida	Amaranthus hybridus	Setaria faberi
Pest Name			Smooth pigweed		Giant foxtail	Giant ragweed	Smooth pigweed		Giant foxtail	Giant ragweed	Smooth pigweed	Giant foxtail
Crop Code				GLXMA				GLXMA				
BBCH Scale				BSOY				BSOY				
Crop Scientific Name				Glycine max				Glycine max				
Crop Name				Soybean				Soybean				
Rating Date			6-11-2010	6-18-2010	6-18-2010	6-18-2010	6-18-2010	6-25-2010	6-25-2010	6-25-2010	6-25-2010	6-25-2010
Rating Type			CONTROL	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit			PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples			1	1	1	1	1	1	1	1	1	1
Rating Timing			5 WEEK	6 WEEK	6 WEEK	6 WEEK	6 WEEK	7 WEEK	7 WEEK	7 WEEK	7 WEEK	7 WEEK
Days After First/Last Applic.			35 35	42 42	42 42	42 42	42 42	49 49	49 49	49 49	49 49	49 49
Trt-Eval Interval			28 DA-A	42 DA-A	42 DA-A	42 DA-A	42 DA-A	42 DA-A	42 DA-A	42 DA-A	42 DA-A	42 DA-A
Plant-Eval Interval			35 DP-1	42 DP-1	42 DP-1	42 DP-1	42 DP-1	49 DP-1	49 DP-1	49 DP-1	49 DP-1	49 DP-1
Days After Emergence			29 DE-	36 DE-	36 DE-	36 DE-	36 DE-	43 DE-	43 DE-	43 DE-	43 DE-	43 DE-
ARM Action Codes			P	P	P	P	P	P	P	P	P	P
Number of Decimals			0	0	0	0		0	0	0		0

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	11	12	13	14	15	16	17	18	19	20
1	CHECK UNTREATED				0	0	0	0	0.0	0	0	0	0.0	0
2	VALOR SX	2	OZ/A	PRE	99	0	96	77	99.0	0	96	77	99.0	96
3	VALOR XLT	3	OZ/A	PRE	99	2	96	91	99.0	2	96	91	99.0	96
4	GANGSTER FR	0.4	OZ/A	PRE	99	0	99	93	99.0	0	99	93	99.0	99
	GANGSTER V	2	OZ/A	PRE										
5	FIERCE	3	OZ/A	PRE	99	10	99	87	99.0	3	99	87	99.0	99
6	AUTHORITY ASSIST	5	FL OZ/A	PRE	99	0	99	77	99.0	0	99	77	99.0	99
7	PREFIX	1	QT/A	PRE	99	0	99	91	99.0	0	99	91	99.0	99
8	AUTHORITY FIRST	3.2	OZ/A	PRE	99	0	99	92	99.0	0	99	92	99.0	99
9	FIERCE	3.75	OZ/A	PRE	99	15	99	83	99.0	7	99	83	99.0	99
10	OPTILL	2	OZ/A	PRE	99	0	99	86	99.0	0	99	86	99.0	99
11	V-10206	1	OZ/A	PRE	99	12	99	95	99.0	5	99	95	99.0	99
	VALOR XLT	3	OZ/A	PRE										
12	PROWL H20	2.5	PT/A	PRE	99	0	99	63	99.0	0	99	53	99.0	99
13	VALOR SX	2	OZ/A	PRE	99	0	99	82	99.0	0	99	82	99.0	99
	V-10206	1	OZ/A	PRE										
LSD (P=.05)					0.0	7.5	3.3	8.9	0.00	4.8	3.3	8.9	0.00	3.3
Standard Deviation					0.0	4.4	2.0	5.3	0.00	2.9	2.0	5.3	0.00	2.0
CV					0.0	150.77	2.15	6.74	0.0	224.44	2.15	6.81	0.0	2.15
Bartlett's X2					0.0	2.473	0.0	7.098	0.0	0.998	0.0	7.098	0.0	0.0
P(Bartlett's X2)					.	0.48	.	0.791	.	0.802	.	0.791	.	.
Replicate F					0.000	0.227	2.182	2.296	0.000	0.077	2.182	2.296	0.000	2.182
Replicate Prob(F)					1.0000	0.7986	0.1347	0.1223	1.0000	0.9257	0.1347	0.1223	1.0000	0.1347
Treatment F					0.000	4.438	589.000	67.698	0.000	1.871	589.000	71.198	0.000	589.000
Treatment Prob(F)					1.0000	0.0009	0.0001	0.0001	1.0000	0.0926	0.0001	0.0001	1.0000	0.0001

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Pest Type				W Weed		W Weed
Pest Code				AMBTR		AMACH
Pest Scientific Name				Ambrosia trifida		Amaranthus hybridus
Pest Name				Giant ragweed		Smooth pigweed
Crop Code			GLXMA			
BBCH Scale			BSOY			
Crop Scientific Name			Glycine max			
Crop Name			Soybean			
Rating Date			7-1-2010	7-2-2010		7-2-2010
Rating Type			INJURY	CONTROL		CONTROL
Rating Unit			PERCENT	PERCENT		PERCENT
Number of Subsamples			1	1		1
Rating Timing			8 WEEK	8 WEEK		8 WEEK
Days After First/Last Applic.			55 55	56 56		56 56
Trt-Eval Interval			55 DA-A	42 DA-A		42 DA-A
Plant-Eval Interval			55 DP-1	56 DP-1		56 DP-1
Days After Emergence			49 DE-	50 DE-		50 DE-
ARM Action Codes			P	P		P
Number of Decimals			0	0		
Trt Treatment No. Name	Rate	Rate Unit	Growth Stage	21	22	23
1 CHECK UNTREATED				0	0	0.0
2 VALOR SX	2	OZ/A	PRE	0	67	99.0
3 VALOR XLT	3	OZ/A	PRE	0	88	99.0
4 GANGSTER FR	0.4	OZ/A	PRE	0	92	99.0
GANGSTER V	2	OZ/A	PRE			
5 FIERCE	3	OZ/A	PRE	0	87	99.0
6 AUTHORITY ASSIST	5	FL OZ/A	PRE	0	73	99.0
7 PREFIX	1	QT/A	PRE	0	91	99.0
8 AUTHORITY FIRST	3.2	OZ/A	PRE	0	92	99.0
9 FIERCE	3.75	OZ/A	PRE	0	83	99.0
10 OPTILL	2	OZ/A	PRE	0	86	99.0
11 V-10206	1	OZ/A	PRE	0	95	99.0
VALOR XLT	3	OZ/A	PRE			
12 PROWL H20	2.5	PT/A	PRE	0	40	99.0
13 VALOR SX	2	OZ/A	PRE	0	82	99.0
V-10206	1	OZ/A	PRE			
LSD (P=.05)				0.0	8.8	0.00
Standard Deviation				0.0	5.2	0.00
CV				0.0	6.95	0.0
Bartlett's X2				0.0	8.054	0.0
P(Bartlett's X2)				.	0.624	.
Replicate F				0.000	1.386	0.000
Replicate Prob(F)				1.0000	0.2694	1.0000
Treatment F				0.000	79.777	0.000
Treatment Prob(F)				1.0000	0.0001	1.0000

Plant and Soil Science, U of KY
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SOYBEAN POSTEMERGENCE III

Trial ID: S10042
Location: LEXINGTON, KY
Project ID:

Protocol ID: VALENT-SB-PRE
Study Director: CHARLES H. SLACK
Investigator: Charles H 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
AMACH, Amaranthus hybridus, = US
Crop Code
GLXMA, BSOY, Glycine max, = US
Rating Unit
PERCENT = percent
Plant-Eval Interval
14 DP-1 = 1 5-7-2010
28 DP-1 = 1 5-7-2010
35 DP-1 = 1 5-7-2010
42 DP-1 = 1 5-7-2010
49 DP-1 = 1 5-7-2010
55 DP-1 = 1 5-7-2010
56 DP-1 = 1 5-7-2010
ARM Action Codes
P = Rating scale of 0 to 100 (e.g. % control or injury)

Plant and Soil Science, U of KY
Weed Science Research

SOYBEAN POSTEMERGENCE III

Trial ID: S10042 Protocol ID: VALENT-SB-PRE
Location: LEXINGTON, KY Study Director: CHARLES H. SLACK
Project ID: Investigator: Charles H Slack
Sponsor Contact: JOHN CRANMER

General Trial Information

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST WEED SCIENCE
Investigator: Charles H. Slack

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5-7-2010

Trial Location

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

Personnel

Study Director: CHARLES H. SLACK **Title:** RESEARCH SPECIALIST WEED SCIENCE
Affiliation: UNIVERSITY OF KENTUCKY
Address: 415 PLANT SCIENCE BUILDING
Location: LEXINGTON, KY
Postal Code: 40546 **E-mail:** cslack@uky.edu
Mobile No.: 859-227-3355
Investigator: Charles H. Slack
Affiliation: University of Kentucky
Location: Lexington, KY
Postal Code: 40546 **E-mail:** cslack@uky.edu

Other Personnel

Role	Name	Other
Research Analyst	Sara Carter	sara.carter@uky.edu

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AGR 3803
BBCH Scale: BSOY **Planting Date:** 5-7-2010
Planting Method: DRILLE **Rate, Unit:** 210000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 7.5 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 75 F
Soil Moisture: EXCELL excellent **Emergence Date:** 5-13-2010

Pest Description

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

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

Pest 3 Type: W **Code:** AMACH Amaranthus hybridus
Common Name: Smooth pigweed

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Site and Design

Plot Width, Unit: 6.67 FT **Site Type:** FIELD field
Plot Length, Unit: 44 FT
Plot Area, Unit: 293.48 FT2 **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:** 17 **Fert. Level:** E
Soil Drainage: E excellent

Moisture and Weather Conditions

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

Application Description

	A
Application Date:	5-7-2010
Time of Day:	2 PM
Application Method:	SPRAY
Application Timing:	PRE
Application Placement:	BROSOI
Applied By:	C H SLACK
Air Temperature, Unit:	80 F
% Relative Humidity:	40
Wind Velocity, Unit:	10 MPH
Wind Direction:	WNW
Soil Temperature, Unit:	75 F
Soil Moisture:	GOOD
% Cloud Cover:	10
Next Rain Occurred On:	5-8-2010

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:	AMACH W

Application Equipment

	A
Appl. Equipment:	ATV
Operating Pressure, Unit:	30 PSI
Nozzle Type:	FLAT FAN
Nozzle Size:	8004 DG
Nozzle Spacing, Unit:	20 IN
Boom Length, Unit:	6.67 FT
Boom Height, Unit:	30 IN
Ground Speed, Unit:	4 MPH
Carrier:	WATER
Spray Volume, Unit:	24 GPA
Propellant:	CO2