



College of Agriculture
Department of Agronomy _____

2004 Herbicide Evaluation Trials

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

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HERBICIDES IN REPORT

<u>TRADE NAME</u>	<u>COMMON NAME</u>	<u>COMPANY</u>
AATREX	ATRAZINE	SYNGENTA
ACCENT	NICOSULFURON	DUPONT
ACTIVATOR 90	SURFACTANT	LOVELAND
AIM	CARFENTRAZONE	FMC
AMPLIFY	CLORANSULAM	MONSANTO
AMS	AMMONIUM SULFATE	CLEAN CROP
ARROW	CLETHODIM	MANA
ASSURE II	QUIZALOFOP	DUPONT
AUTHORITY	SULFENTRAZONE	FMC
AXIOM	THIAFLUAMIDE + METRIBUZIN	BAYER
BALANCE PRO	ISOXAFLUTOLE	BAYER
BANVEL	DICAMBA	MICRO FLO
BASIS	RIMSULFURON + THIFENSULFURON	DUPONT
BICEP II MAGNUM	S-METOLACHLOR + ATRAZINE + BENOXACOR	SYNGENTA
BICEP LITE II MAGNUM	S-METOLACHLOR + ATRAZINE + BENOXACOR	SYNGENTA
BOUNDARY	S-METOLACHLOR + METRIBUZIN	SYNGENTA
CALLISTO	MESOTRIONE	SYNGENTA
CANOPY XL	CHLORIMURON + SULFENTRAZONE (1:5 RATIO)	DUPONT
CINCH	S-METOLACHLOR + BENOXACOR	DUPONT
CINCH ATZ	S-METOLACHLOR + ATRAZINE + BENOXACOR	DUPONT
CLASSIC	CHLORIMURON	DUPONT
CLEAROUT 41 PLUS	GLYPHOSATE	CHEMICAL PRODUCTS TECHNOLOGIES
COMMAND	CLOMAZONE	FMC
CROP OIL CONCENTRATE (COC)		LOVELAND
DEFINE	FLUFENACET	BAYER
DEGREE	ACETOCHLOR	MONSANTO
DEGREE XTRA	ACETOCHLOR + ATRAZINE	MONSANTO
DISTINCT	DIFLUFENZOPYR/SODIUM SALT OF 3,6 O-ANISIC ACID	BASF
DOMAIN	FLUFENACET + METRIBUZIN	BAYER
DPX X4145		DUPONT
DUAL II MAGNUM	S-METOLACHLOR + BENOXACOR	SYNGENTA
EPIC	FLUFEMACET + ISOXAFLUTOLE	BAYER
ET-751 2.5%	PYRAFLUFEN-ETHYL	NIHON NOHYAKU
EQUIP CORN HERBICIDE	FORAMSULFURON + IODPSULFURON-METHYL-SODIUM	BAYER
EXCEED	PROSULFURON + PRIMISULFURON	SYNGENTA
EXPERT	S-METOLACHLOR + ATRAZINE + BENOXACOR +GLYPHOSATE	SYNGENTA
EXPRESS	TRIBENURON METHYL	DUPONT
FIRSTRATE	CLORANSULAM	DOW AGROSCIENCE

HERBICIDES IN REPORT CONTINUED

<u>TRADE NAME</u>	<u>COMMON NAME</u>	<u>COMPANY</u>
FLEXSTAR	FOMESAFEN + SURFACTANT	SYNGENTA
FUSION	FLUAZIFOP-P-BUTYL + FENOXAPROP-P-ETHYL	SYNGENTA
GANGSTER	FLUMIOXAZIN + CLORANSULAM	VALENT
GF-1279	GLYPHOSATE	DOW AGROSCIENCE
GF-1203		DOW AGROSCIENCE
GLYPHOMAX PLUS	GLYPHOSATE	DOW AGROSCIENCE
GLY STAR PLUS	GLYPHOSATE	ALBAUGH
GRAMOXONE MAX	PARAQUAT	SYNGENTA
GUARDSMAN MAX	DIMETHENAMID-P + ATRAZINE	BASF
HARNESS	ACETOCHLOR	MONSANTO
HORNET	FLUMETSULAM + CLOPYRALID	DOW AGROSCIENCE
INTRRO	ALACHLOR	MONSANTO
KEYSTONE	ACETOCHLOR + ATRAZINE	DOW AGROSCIENCE
KIH-485	KIH-485	KUMIAI CHEMICAL
KIH-485/ATRAZINE	KIH-485 + ATRAZINE	KUMIAI CHEMICAL
LABS 141-F01		LABSERVICES
LEXAR	S-METOLACHLOR + MESOTRIONE + ATRAZINE	SYNGENTA
LIGHTNING	IMAZETHAPYR + IMAZAPYR	BASF
LIQUID N	28% NITROGEN	
LUMAX	S-METOLACHLOR + MESOTRIONE + ATRAZINE	SYNGENTA
MANA 282	METOLACHLOR + SAFENER	MANA
MANA 283	METOLACHLOR + ATRAZINE	MANA
MANA MET	METRIBUZIN	MANA
MARKSMAN	DICAMBA + ATRAZINE (2.1 + 1.1)	BASF
MON 24710		MONSANTO
MON 24755		MONSANTO
MON 54179		MONSANTO
MSO	METHYLATED SEED OIL	LOVELAND
OPTION	FORAMSULFURON	BAYER
PARALLEL II	METOLACHLOR + SAFENER	MANA
PHOENIX	LACTOFEN	VALENT
PRINCEP	SIMAZINE	SYNGENTA
PROWL H2O	PENDIMETHALIN	BASF
RIMSULFURON	RIMSULFURON	DUPONT
ROUNDUP ORINGINAL MAX	GLYPHOSATE	MONSANTO
ROUNDUP Weather Max	GLYPHOSATE + ADJUVANT (POTASSIUM SALT)	MONSANTO
SELECT	CLETHODIM	VALENT
SENCOR	METRIBUZIN	BAYER
SPARTAN	SULFENTRAZONE	FMC

HERBICIDES IN REPORT CONTINUED

<u>TRADE NAME</u>	<u>COMMON NAME</u>	<u>COMPANY</u>
SPIRIT	PRIMISULFURON + PROSULFURON	SYNGENTA
SPREADER HF	NON-IONIC SURFACTANT	LOVELAND
STALWART C	METOLACHLOR	SIPCAM
STALWART XTRA	METOLACHLOR + ATRAZINE	SIPCAM
STEADFAST	NICOSULFURON + PROSULFURON	DUPONT
SYNCHRONY STS	CHLORIMURON + THIFENSULFURON	DUPONT
SUPERB HC	COC REPLACEMENT	MONSANTO
THIFENSULFURON	THIFENSULFURON	DUPONT
TOUCHDOWN IQ	GLYPHOSATE	SYNGENTA
TOUCHDOWN HI TECH	GLYPHOSATE	SYNGENTA
TOUCHDOWN Total	GLYPHOSATE	SYNGENTA
USA 2005	ISOXAFLUTOLE + FLUFENACET	BAYER
VALOR SX	FLUMIOXAZIN (V-53482)	VALENT
V-10137		VALENT
V-10148		VALENT
V-10149		VALENT
WEEDONE LV4	2,4-D ESTER	NUFARM AMERICAS INC

DEFINITIONS FOR METHODS OF APPLICATION

PREEMERGENCE

4WK	4 WEEKS BEFORE PLANTING
2WK	2 WEEKS BEFORE PLANTING
1WK	1 WEEK BEFORE PLANTING
30D	30 DAYS BEFORE PLANTING
21D	21 DAYS BEFORE PLANTING
PRE	PREEMERGENCE
PPI	PRE PLANT INCORPORATED
PRT	PRE TRANSPLANT

POSTEMERGENCE

EP	EARLY POSTEMERGENCE WEEDS 0-2"
MP	MID-POSTEMERGENCE WEEDS 2-4"
LMP	LATE/MID-POSTEMERGENCE WEEDS 3-5"
LP	LATE POSTEMERGENCE WEEDS 4-6"
LLP	LATE/LATE POSTEMERGENCE WEEDS 6-8"
5C	5 LEAF CORN
11C	11 INCH CORN
12C	12 INCH CORN
16C	16 INCH CORN
18C	18 INCH CORN
20C	20 INCH CORN
24C	24 INCH CORN
V4	12 INCH CORN, 5LF
12J	12 INCH JOHNSONGRASS
+2WK	TWO WEEKS AFTER LAST APPLICATION
+14D	14 DAYS AFTER LAST APPLICATION
+2W	TWO WEEKS AFTER LAST APPLICATION
+4W	FOUR WEEKS AFTER LAST APPLICATION

ABBREVIATIONS

Crop and Weed Species

<u>ABB</u>	<u>COMMON NAME</u>	<u>SCIENTIFIC NAME</u>
ABUTH	Velvetleaf	<i>Abutilon theophrasti</i>
AMACH	Smooth Pigweed	<i>Amaranthus hybridus</i>
AMBTR	Giant Ragweed	<i>Ambrosia trifida</i>
CHEAL	Common Lambsquarters	<i>Chenopodium album</i>
DIGSA	Large Crabgrass	<i>Digitaria sanguinalis</i>
ERICA	Horseweed	<i>Conyza Canadensis cronq</i>
GLYMA	Soybean	<i>Glycine max</i>
HPPVU	Marestail	<i>Hippuris vulgaris</i>
IPOSS	Morningglory	<i>Ipomoea ssp.</i>
LAMAM	Henbit	<i>Lamium amplexicaule</i>
POLPY	Pennsylvania Smartweed	<i>Polygonum pensylvanicum</i>
SETFA	Giant Foxtail	<i>Setaria faberi</i>
SORHA	Johnsongrass	<i>Sorghum halepense</i>
STEME	Common Chickweed	<i>Stellaria media</i>
TAROF	Common Dandelion	<i>Taraxcum officimale</i>
XANST	Common Cocklebur	<i>Xanthium strumarium</i>
ZEAMX	Corn	<i>Zea mays</i>

APRIL CLIMATOLOGICAL DATA

SPINDLETOP

STATION	DATE	AIR TEMP			PRECIP	RH		SOIL TEMP			
		MX	MN	AV		MX	MN	GRASS	MN	BARE	MN
Spindletop	04-01-2004	51	39	45		90	50	51	48	52	46
Spindletop	04-02-2004	51	37	44	0.08	94	68	48	47	49	46
Spindletop	04-03-2004	61	38	50		93	29	53	46	55	45
Spindletop	04-04-2004	47	33	40		68	36	50	46	50	44
Spindletop	04-05-2004	53	27	40		77	19	52	43	54	41
Spindletop	04-06-2004	64	34	49		55	30	54	45	58	43
Spindletop	04-07-2004	74	50	62		54	32	58	50	62	50
Spindletop	04-08-2004	72	48	60		68	22	59	54	64	55
Spindletop	04-09-2004	61	39	50		88	44	58	51	62	51
Spindletop	04-10-2004	62	45	54		64	34	58	52	63	53
Spindletop	04-11-2004	59	48	54		72	52	57	53	61	54
Spindletop	04-12-2004	50	40	45	0.83	100	63	54	49	57	49
Spindletop	04-13-2004	40	34	37	0.57	100	100	49	46	49	45
Spindletop	04-14-2004	57	35	46	0.02	100	35	51	45	55	43
Spindletop	04-15-2004	67	40	54		70	29	56	47	60	45
Spindletop	04-16-2004	74	50	62		67	34	59	51	62	51
Spindletop	04-17-2004	77	55	66		64	46	61	54	66	54
Spindletop	04-18-2004	80	60	70		70	33	62	57	69	58
Spindletop	04-19-2004	71	62	66		86	47	60	58	64	60
Spindletop	04-20-2004	74	57	66		96	51	61	58	66	59
Spindletop	04-21-2004	67	55	61	0.53	96	56	60	59	62	59
Spindletop	04-22-2004	67	55	61	0.48	97	83	59	57	63	57
Spindletop	04-23-2004	65	54	60	0.32	97	83	60	58	64	61
Spindletop	04-24-2004	67	48	58		97	59	61	57	64	57
Spindletop	04-25-2004	74	58	66	0.20	95	67	62	59	67	59
Spindletop	04-26-2004	63	48	56		93	46	62	59	66	58
Spindletop	04-27-2004	55	40	48		85	33	59	55	60	54
Spindletop	04-28-2004	71	38	54		68	37	58	52	64	50
Spindletop	04-29-2004	75	52	64		66	40	60	55	68	55
Spindletop	04-30-2004	71	58	64	0.03	94	68	60	58	64	60

STATION	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP			TOTAL EVAP
	MX	MN	AV		MX	MN	GRASS	MN	BARE	
Spindletop	64	46	55	3.06	82	48	57	52	61	52
(Deviation from normal)	-1	+1	-0	-0.82						

MAY CLIMATOLOGICAL DATA

SPINDLETOP

STATION	DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				
		MX	MN	AV		MX	MN	GRASS		BARE		
EVAP							MX	MN	MX	MN	MX	MN
Spindletop	05-01-2004	78	60	69	0.31	97	59	63	60	68	61	
Spindletop	05-02-2004	61	41	51	1.03	97	73	62	56	65	55	
Spindletop	05-03-2004	58	34	46		96	41	57	53	62	51	
Spindletop	05-04-2004	62	36	49		91	49	57	52	62	51	
Spindletop	05-05-2004	76	54	65		74	41	61	55	69	56	
Spindletop	05-06-2004	80	61	70		91	43	63	58	72	60	
Spindletop	05-07-2004	82	63	72		93	52	65	61	75	62	
Spindletop	05-08-2004	83	53	68		100	41	66	61	76	64	
Spindletop	05-09-2004	83	64	74		73	39	66	63	78	66	
Spindletop	05-10-2004	83	62	72		90	47	67	63	77	67	
Spindletop	05-11-2004	81	62	72		92	53	68	64	78	68	
Spindletop	05-12-2004	83	63	73		93	49	68	64	77	68	
Spindletop	05-13-2004	78	67	72		88	59	67	65	75	69	
Spindletop	05-14-2004	79	64	72	0.22	96	56	67	66	74	69	
Spindletop	05-15-2004	66	57	62	0.65	96	91	66	64	70	67	
Spindletop	05-16-2004	74	58	66	0.02	97	70	66	64	75	65	
Spindletop	05-17-2004	82	60	71	0.01	96	57	68	64	75	66	
Spindletop	05-18-2004	80	65	72	0.13	93	64	68	66	74	68	
Spindletop	05-19-2004	78	65	72	0.41	97	79	68	66	74	69	
Spindletop	05-20-2004	83	67	75		96	66	70	67	76	70	
Spindletop	05-21-2004	83	70	76		92	69	71	69	77	71	
Spindletop	05-22-2004	83	67	75		96	63	72	69	80	71	
Spindletop	05-23-2004	83	67	75		95	51	71	69	81	72	
Spindletop	05-24-2004	83	64	74	0.18	97	58	71	69	80	73	
Spindletop	05-25-2004	83	62	72	0.36	97	67	71	69	77	71	
Spindletop	05-26-2004	72	62	67	1.89	97	91	70	68	73	70	
Spindletop	05-27-2004	82	60	71	0.73	97	68	70	67	75	68	
Spindletop	05-28-2004	78	60	69	0.27	97	52	70	67	76	69	
Spindletop	05-29-2004	77	54	66		97	58	69	66	78	67	
Spindletop	05-30-2004	70	62	66	3.30	97	84	68	67	72	70	
Spindletop	05-31-2004	77	61	69	0.28	100	43	68	67	74	69	

STATION	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	GRASS		BARE		
Spindletop	77	60	68	9.79	94	59	67	64	74	66	
(Deviation from normal)	+2	+5	+3	+5.32							

JUNE CLIMATOLOGICAL DATA

SPINDLETOP

STATION	DATE	AIR TEMP			PRECIP	RH		SOIL TEMP			
		MX	MN	AV		MX	MN	GRASS	MN	BARE	MN
Spindletop	06-01-2004	77	56	66	0.70	97	46	67	65	73	65
Spindletop	06-02-2004	79	58	68	0.07	95	40	68	65	74	66
Spindletop	06-03-2004	77	56	66		94	51	68	65	77	65
Spindletop	06-04-2004	71	55	63	0.11	97	58	67	65	72	68
Spindletop	06-05-2004	75	49	62		99	38	67	63	75	65
Spindletop	06-06-2004	79	57	68		85	37	67	64	75	66
Spindletop	06-07-2004	84	58	71		92	48	69	65	77	67
Spindletop	06-08-2004	85	65	75		93	51	74	67	82	70
Spindletop	06-09-2004	86	68	77		99	57	74	70	80	73
Spindletop	06-10-2004	85	66	76		100	51	76	71	82	73
Spindletop	06-11-2004	88	72	80		100	53	76	73	83	75
Spindletop	06-12-2004	85	66	76	0.72	100	73	75	73	79	74
Spindletop	06-13-2004	85	63	74	0.23	100	63	76	71	81	71
Spindletop	06-14-2004	86	71	78		100	59	78	73	83	74
Spindletop	06-15-2004	80	71	76	0.01	100	83	77	74	81	76
Spindletop	06-16-2004	86	70	78	0.28	100	63	79	75	82	75
Spindletop	06-17-2004	85	71	78	0.15	100	64	79	75	83	76
Spindletop	06-18-2004	84	70	77		100	60	80	75	83	76
Spindletop	06-19-2004	76	61	68	0.25	100	58	78	75	81	75
Spindletop	06-20-2004	76	55	66		97	46	78	72	81	70
Spindletop	06-21-2004	82	59	70		88	48	77	71	83	71
Spindletop	06-22-2004	82	68	75	0.15	100	68	76	73	81	75
Spindletop	06-23-2004	80	64	72	0.01	100	48	78	73	82	73
Spindletop	06-24-2004	81	63	72		100	47	76	72	82	72
Spindletop	06-25-2004	73	65	69	0.45	100	87	74	73	77	74
Spindletop	06-26-2004	74	60	67		100	39	75	71	80	71
Spindletop	06-27-2004	78	55	66		100	39	76	69	83	69
Spindletop	06-28-2004	79	58	68		100	45	76	71	82	72
Spindletop	06-29-2004	81	61	71		100	48	77	71	84	73
Spindletop	06-30-2004	82	61	72		100	54	77	71	84	73

STATION	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP			TOTAL EVAP
	MX	MN	AV		MX	MN	GRASS	MN	BARE	
Spindletop	81	62	72	3.13	98	54	74	70	80	71
(Deviation from normal)	-2	+0	-1	-0.53						

JULY CLIMATOLOGICAL DATA

SPINDLETOP

STATION	DATE	AIR TEMP			PRECIP	RH		SOIL TEMP			
		MX	MN	AV		MX	MN	GRASS		BARE	
EVAP											
Spindletop	07-01-2004	83	66	74		100	64	77	73	84	75
Spindletop	07-02-2004	81	67	74	0.02	100	76	77	73	82	76
Spindletop	07-03-2004	86	67	76		100	57	78	73	86	75
Spindletop	07-04-2004	85	68	76	0.19	100	58	78	75	83	77
Spindletop	07-05-2004	85	65	75	0.03	100	74	78	74	83	76
Spindletop	07-06-2004	88	65	76	0.32	100	57	79	73	86	73
Spindletop	07-07-2004	81	66	74	0.39	100	61	77	74	81	75
Spindletop	07-08-2004	82	61	72		100	52	78	72	83	72
Spindletop	07-09-2004	87	69	78	0.51	100	61	80	74	87	75
Spindletop	07-10-2004	87	67	77	0.06	100	57	80	75	85	76
Spindletop	07-11-2004	86	69	78		100	65	81	76	85	77
Spindletop	07-12-2004	84	71	78		100	82	80	76	85	77
Spindletop	07-13-2004	87	67	77	0.35	100	54	82	77	90	78
Spindletop	07-14-2004	80	66	73	0.01	100	52	78	75	82	76
Spindletop	07-15-2004	80	63	72		100	44	77	73	83	72
Spindletop	07-16-2004	83	59	71		100	40	77	72	85	72
Spindletop	07-17-2004	80	64	72	0.94	100	60	78	73	83	75
Spindletop	07-18-2004	77	60	68	0.02	100	60	76	73	80	72
Spindletop	07-19-2004	82	58	70		100	46	77	72	82	71
Spindletop	07-20-2004	84	62	73		100	45	78	73	85	72
Spindletop	07-21-2004	85	66	76		100	55	79	74	87	75
Spindletop	07-22-2004	84	69	76	1.07	100	75	78	74	83	77
Spindletop	07-23-2004	80	69	74	0.19	100	100	78	75	81	76
Spindletop	07-24-2004	77	61	69		100	62	78	73	82	72
Spindletop	07-25-2004	77	61	69		100	64	76	73	79	72
Spindletop	07-26-2004	72	64	68	0.01	100	100	74	73	76	73
Spindletop	07-27-2004	73	59	66		100	73	74	72	77	71
Spindletop	07-28-2004	75	55	65		100	61	75	69	80	68
Spindletop	07-29-2004	81	60	70		100	61	76	70	82	70
Spindletop	07-30-2004	84	64	74	1.11	100	67	76	72	81	73
Spindletop	07-31-2004	81	67	74	2.43	100	100	76	72	80	74

STATION	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	GRASS		BARE		
Spindletop	82	64	73	7.65	100	64	78	73	83	74	
(Deviation from normal)	-4	-0	-2	+2.65							

AUGUST CLIMATOLOGICAL DATA

SPINDLETOP

STATION	DATE	AIR TEMP			PRECIP	RH		SOIL TEMP			
		MX	MN	AV		MX	MN	GRASS		BARE	
EVAP								MX	MN	MX	MN
Spindletop	08-01-2004	84	64	74		100	57	79	73	84	73
Spindletop	08-02-2004	85	64	74		100	50	80	74	85	73
Spindletop	08-03-2004	87	64	76		100	52	80	74	87	74
Spindletop	08-04-2004	84	68	76	1.48	100	79	78	75	83	77
Spindletop	08-05-2004	77	62	70	0.39	100	45	77	73	80	73
Spindletop	08-06-2004	72	55	64		100	44	75	71	77	68
Spindletop	08-07-2004	77	51	64		100	36	74	68	80	66
Spindletop	08-08-2004	80	56	68		100	37	75	69	83	69
Spindletop	08-09-2004	80	62	71		100	56	74	71	80	71
Spindletop	08-10-2004	83	68	76		100	60	75	71	83	72
Spindletop	08-11-2004	74	58	66	0.03	100	51	74	71	81	71
Spindletop	08-12-2004	68	55	62	0.07	100	58	73	70	77	71
Spindletop	08-13-2004	66	48	57		100	59	70	67	73	66
Spindletop	08-14-2004	74	54	64		100	41	72	67	79	66
Spindletop	08-15-2004	77	51	64		100	38	72	66	82	67
Spindletop	08-16-2004	80	52	66		100	36	73	66	83	68
Spindletop	08-17-2004	79	52	66		100	41	73	67	84	69
Spindletop	08-18-2004	84	61	72		100	56	73	68	83	71
Spindletop	08-19-2004	88	72	80		100	48	75	71	85	75
Spindletop	08-20-2004	78	68	73	0.11	100	76	73	72	79	75
Spindletop	08-21-2004	77	61	69	0.04	100	49	75	71	81	72
Spindletop	08-22-2004	83	55	69		100	40	75	68	85	70
Spindletop	08-23-2004	83	63	73		100	47	74	70	83	73
Spindletop	08-24-2004	82	67	74	0.06	100	91	74	71	80	74
Spindletop	08-25-2004	85	70	78	0.22	100	86	74	72	80	74
Spindletop	08-26-2004	80	71	76	0.20	100	100	74	72	77	74
Spindletop	08-27-2004	87	71	79		100	75	76	72	81	73
Spindletop	08-28-2004	90	68	79	0.31	100	57	78	74	85	75
Spindletop	08-29-2004	80	67	74		100	90	76	74	81	75
Spindletop	08-30-2004	74	64	69		100	100	74	73	77	74
Spindletop	08-31-2004	79	57	68		100	54	75	70	83	70

STATION	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	MX	MN	MX	MN	
Spindletop	80	61	71	2.91	100	58	75	71	81	72	
(Deviation from normal)	-4	-1	-3	-1.02							

SEPTEMBER CLIMATOLOGICAL DATA SPINDLETOP

STATION	DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				
		MX	MN	AV		MX	MN	GRASS	BARE	MX	MN	
EVAP												
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Spindletop	09-01-2004	79	58	68		100	47	74	69	83	71	
Spindletop	09-02-2004	81	62	72	0.04	100	68	74	70	81	72	
Spindletop	09-03-2004	79	68	74	0.22	100	100	74	71	78	74	
Spindletop	09-04-2004	86	67	76		100	54	77	72	82	73	
Spindletop	09-05-2004	85	65	75		100	50	77	72	84	73	
Spindletop	09-06-2004	85	62	74		100	50	77	72	86	73	
Spindletop	09-07-2004	79	67	73	0.02	100	100	75	73	79	75	
Spindletop	09-08-2004	70	64	67	0.49	100	100	73	70	76	71	
Spindletop	09-09-2004	73	61	67		100	100	71	69	74	70	
Spindletop	09-10-2004	77	53	65		100	53	72	67	77	67	
Spindletop	09-11-2004	82	58	70	0.03	100	53	74	67	79	68	
Spindletop	09-12-2004	81	65	73	0.22	100	62	75	70	79	72	
Spindletop	09-13-2004	80	63	72		100	66	74	71	78	72	
Spindletop	09-14-2004	82	62	72		100	49	74	70	78	70	
Spindletop	09-15-2004	83	62	72		100	53	74	70	79	70	
Spindletop	09-16-2004	77	67	72		100	100	73	71	76	73	
Spindletop	09-17-2004	67	53	60	1.59	100	100	71	68	73	67	
Spindletop	09-18-2004	73	48	60		100	44	69	65	74	63	
Spindletop	09-19-2004	71	49	60		100	37	68	64	73	63	
Spindletop	09-20-2004	76	48	62		100	34	68	63	74	62	
Spindletop	09-21-2004	80	48	64		100	39	69	63	75	63	
Spindletop	09-22-2004	82	54	68		100	43	70	64	78	66	
Spindletop	09-23-2004	84	57	70		100	46	71	66	79	68	
Spindletop	09-24-2004	83	59	71		100	42	71	67	78	69	
Spindletop	09-25-2004	76	58	67		100	46	70	67	75	69	
Spindletop	09-26-2004	74	55	64		100	52	69	66	77	67	
Spindletop	09-27-2004	76	54	65		100	65	69	65	75	67	
Spindletop	09-28-2004	76	59	68		100	36	69	67	77	69	
Spindletop	09-29-2004	64	50	57		100	67	67	65	72	67	
Spindletop	09-30-2004	69	44	56		100	57	66	62	71	63	

STATION	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	GRASS	BARE	MX	MN	
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Spindletop	78	58	68	2.61	100	60	72	68	77	69	
(Deviation from normal)	+0	+2	+1	-0.59							

Data if used for legal purposes must be certified by NCDC,
National CLIMATOLOGICAL Data Center (Phone 828/271-4800)

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

CORN PREEMERGENCE

Trial ID: C4001
Location: LEXINGTON, KY

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

Pest Type	W Weed	W Weed	W Weed
Pest Code	SETFA	CHEAL	XANST
Pest Name	Giant foxtail	Lambsquarters, commo	Common cocklebur
Crop Code	ZEAMX		
BBCH Scale	BCOR		
Crop Name	Corn		
Rating Data Type	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt Treatment	Rate	Rate Unit	1	2	3	4
1 BICEP II MAGNUM	2.89	lb ai/a	0	98	95	90
2 HARNESS XTRA	3.36	lb ai/a	0	98	98	94
3 DEGREE XTRA	2.8	lb ai/a	0	98	98	85
4 STALWART XTRA	2.89	lb ai/a	0	98	98	92
5 STALWART XTRA	2.89	lb ai/a	0	98	97	95
BALANCE PRO	0.047	lb ai/a				
6 STALWART XTRA	2.89	lb ai/a	0	98	98	95
BALANCE PRO	0.07	lb ai/a				
7 KIH-485/ATRAZINE	1.097	lb ai/a	0	98	97	88
8 KIH-485/ATRAZINE	1.45	lb ai/a	0	98	98	92
9 KEYSTONE	3.48	lb ai/a	3	98	98	96
AATREX	0.5	lb ai/a				
10 KEYSTONE	3.48	lb ai/a	0	98	98	93
AATREX	0.5	lb ai/a				
HORNET	0.128	lb ai/a				
11 KEYSTONE	1.75	lb ai/a	0	98	98	98
AATREX	0.5	lb ai/a				
LIGHTNING	0.056	lb ai/a				
COC	1	qt/a				
LIQUID N	1.5	qt/a				
12 LEXAR	2.76	lb ai/a	0	98	98	93
13 LUMAX	1.5	lb ai/a	0	98	98	93
LUMAX	1	lb ai/a				
14 BASIS	0.035	lb ai/a	0	94	95	88
PRINCEP	1	lb ai/a				
AATREX	1	lb ai/a				
15 CINCH ATZ	2.89	lb ai/a	0	98	97	92
16 CINCH ATZ	1.51	lb ai/a	3	98	98	92
STEADFAST ATZ	0.656	lb ai/a				
COC	1	qt/a				
LIQUID N	2	qt/a				
17 DEFINE	0.68	lb ai/a	10	98	97	96
AATREX	1	lb ai/a				
EQUIP CORN HERBICIDE	0.03	lb ai/a				
MSO	1.5	qt/a				
LIQUID N	1.5	qt/a				
18 CHECK UNTREATED			0	0	0	0
LSD (P=.05)			3.1	2.9	2.9	5.0
Standard Deviation			1.9	1.8	1.7	3.0
CV			201.64	1.92	1.9	3.44
Grand Mean			0.93	92.31	92.04	87.3
Bartlett's X2			0.0	0.0	5.203	7.077
P(Bartlett's X2)			1.00	.	0.392	0.793
Replicate F			2.125	1.000	0.916	2.262
Replicate Prob(F)			0.1350	0.3784	0.4096	0.1196
Treatment F			5.406	509.795	519.499	161.592
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0001

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Weed Science Field Research

Pest Type	W Weed	W Weed	W Weed
Pest Code	IPOSS	SETFA	CHEAL
Pest Name	Morning glory	Giant foxtail	Lambsquarters, commo
Crop Code		ZEAMX	
BBCH Scale		BCOR	
Crop Name		Corn	
Rating Data Type	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEK	4 WEEK	4 WEEK
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt Treatment	Rate	Rate	5	6	7	8
No. Name	Rate	Unit				
1 BICEP II MAGNUM	2.89	lb ai/a	92	0	98	95
2 HARNESS XTRA	3.36	lb ai/a	94	0	98	98
3 DEGREE XTRA	2.8	lb ai/a	88	0	98	98
4 STALWART XTRA	2.89	lb ai/a	93	0	98	98
5 STALWART XTRA	2.89	lb ai/a	95	0	98	97
BALANCE PRO	0.047	lb ai/a				
6 STALWART XTRA	2.89	lb ai/a	95	0	98	98
BALANCE PRO	0.07	lb ai/a				
7 KIH-485/ATRAZINE	1.097	lb ai/a	90	0	98	97
8 KIH-485/ATRAZINE	1.45	lb ai/a	93	0	98	98
9 KEYSTONE	3.48	lb ai/a	96	0	98	98
AATREX	0.5	lb ai/a				
10 KEYSTONE	3.48	lb ai/a	93	0	98	98
AATREX	0.5	lb ai/a				
HORNET	0.128	lb ai/a				
11 KEYSTONE	1.75	lb ai/a	98	0	98	98
AATREX	0.5	lb ai/a				
LIGHTNING	0.056	lb ai/a				
COC	1	qt/a				
LIQUID N	1.5	qt/a				
12 LEXAR	2.76	lb ai/a	93	0	98	98
13 LUMAX	1.5	lb ai/a	93	0	98	98
LUMAX	1	lb ai/a				
14 BASIS	0.035	lb ai/a	92	0	90	95
PRINCEP	1	lb ai/a				
AATREX	1	lb ai/a				
15 CINCH ATZ	2.89	lb ai/a	92	0	98	97
16 CINCH ATZ	1.51	lb ai/a	92	0	98	98
STEADFAST ATZ	0.656	lb ai/a				
COC	1	qt/a				
LIQUID N	2	qt/a				
17 DEFINE	0.68	lb ai/a	96	0	98	97
AATREX	1	lb ai/a				
EQUIP CORN HERBICIDE	0.03	lb ai/a				
MSO	1.5	qt/a				
LIQUID N	1.5	qt/a				
18 CHECK UNTREATED			0	0	0	0
LSD (P=.05)			5.3	0.0	5.2	2.9
Standard Deviation			3.2	0.0	3.1	1.7
CV			3.6	0.0	3.4	1.9
Grand Mean			88.04	0.0	92.13	92.04
Bartlett's X2			6.76	0.0	0.0	5.203
P(Bartlett's X2)			0.914	.	.	0.392
Replicate F			1.086	0.000	1.000	0.916
Replicate Prob(F)			0.3490	1.0000	0.3784	0.4096
Treatment F			145.764	0.000	162.891	519.499
Treatment Prob(F)			0.0001	1.0000	0.0001	0.0001

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Weed Science Field Research

Pest Type		W Weed	W Weed	W Weed	
Pest Code		XANST	IPOSS	SETFA	
Pest Name		Common cocklebur	Morning glory	Giant foxtail	
Crop Code				ZEAMX	
BBCH Scale				BCOR	
Crop Name				Corn	
Rating Data Type		CONTROL	CONTROL	INJURY	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval		4 WEEK	4 WEEK	8 WEEK	8 WEEK
ARM Action Codes		P	P	P	P
Number of Decimals		0	0	0	0
Trt Treatment	Rate				
No. Name	Rate Unit	9	10	11	12
1 BICEP II MAGNUM	2.89 lb ai/a	73	78	0	98
2 HARNESS XTRA	3.36 lb ai/a	84	84	0	98
3 DEGREE XTRA	2.8 lb ai/a	68	78	0	98
4 STALWART XTRA	2.89 lb ai/a	75	85	0	98
5 STALWART XTRA	2.89 lb ai/a	82	85	0	98
BALANCE PRO	0.047 lb ai/a				
6 STALWART XTRA	2.89 lb ai/a	82	85	0	98
BALANCE PRO	0.07 lb ai/a				
7 KIH-485/ATRAZINE	1.097 lb ai/a	73	83	0	98
8 KIH-485/ATRAZINE	1.45 lb ai/a	80	82	0	98
9 KEYSTONE	3.48 lb ai/a	80	87	0	98
AATREX	0.5 lb ai/a				
10 KEYSTONE	3.48 lb ai/a	83	83	0	98
AATREX	0.5 lb ai/a				
HORNET	0.128 lb ai/a				
11 KEYSTONE	1.75 lb ai/a	95	96	0	98
AATREX	0.5 lb ai/a				
LIGHTNING	0.056 lb ai/a				
COC	1 qt/a				
LIQUID N	1.5 qt/a				
12 LEXAR	2.76 lb ai/a	83	85	0	98
13 LUMAX	1.5 lb ai/a	85	88	0	98
LUMAX	1 lb ai/a				
14 BASIS	0.035 lb ai/a	73	82	0	90
PRINCEP	1 lb ai/a				
AATREX	1 lb ai/a				
15 CINCH ATZ	2.89 lb ai/a	78	80	0	98
16 CINCH ATZ	1.51 lb ai/a	78	83	0	98
STEADFAST ATZ	0.656 lb ai/a				
COC	1 qt/a				
LIQUID N	2 qt/a				
17 DEFINE	0.68 lb ai/a	92	92	0	98
AATREX	1 lb ai/a				
EQUIP CORN HERBICIDE	0.03 lb ai/a				
M50	1.5 qt/a				
LIQUID N	1.5 qt/a				
18 CHECK UNTREATED		0	0	0	0
LSD (P=.05)		8.3	8.3	0.0	5.2
Standard Deviation		5.0	5.0	0.0	3.1
CV		6.54	6.22	0.0	3.4
Grand Mean		75.85	79.83	0.0	92.13
Bartlett's X2		4.769	11.024	0.0	0.0
P(Bartlett's X2)		0.994	0.684	.	.
Replicate F		0.105	0.333	0.000	1.000
Replicate Prob(F)		0.9010	0.7189	1.0000	0.3784
Treatment F		48.890	50.558	0.000	162.891
Treatment Prob(F)		0.0001	0.0001	1.0000	0.0001

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 Weed Science Field Research

Pest Type	W Weed	W Weed	W Weed
Pest Code	CHEAL	XANST	IPOSS
Pest Name	Lambsquarters, commo Common cocklebur Morning glory		
Crop Code			
BBCH Scale			
Crop Name			
Rating Data Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt Treatment	Rate				
No. Name	Rate	Unit	13	14	15
1 BICEP II MAGNUM	2.89	lb ai/a	95	67	68
2 HARNESS XTRA	3.36	lb ai/a	98	70	75
3 DEGREE XTRA	2.8	lb ai/a	98	57	75
4 STALWART XTRA	2.89	lb ai/a	98	63	75
5 STALWART XTRA	2.89	lb ai/a	97	72	73
BALANCE PRO	0.047	lb ai/a			
6 STALWART XTRA	2.89	lb ai/a	98	73	75
BALANCE PRO	0.07	lb ai/a			
7 KIH-485/ATRAZINE	1.097	lb ai/a	97	57	73
8 KIH-485/ATRAZINE	1.45	lb ai/a	98	73	75
9 KEYSTONE	3.48	lb ai/a	98	72	80
AATREX	0.5	lb ai/a			
10 KEYSTONE	3.48	lb ai/a	98	72	77
AATREX	0.5	lb ai/a			
HORNET	0.128	lb ai/a			
11 KEYSTONE	1.75	lb ai/a	98	89	89
AATREX	0.5	lb ai/a			
LIGHTNING	0.056	lb ai/a			
COC	1	qt/a			
LIQUID N	1.5	qt/a			
12 LEXAR	2.76	lb ai/a	98	77	80
13 LUMAX	1.5	lb ai/a	98	82	85
LUMAX	1	lb ai/a			
14 BASIS	0.035	lb ai/a	95	53	72
PRINCEP	1	lb ai/a			
AATREX	1	lb ai/a			
15 CINCH ATZ	2.89	lb ai/a	97	70	75
16 CINCH ATZ	1.51	lb ai/a	98	75	78
STEADFAST ATZ	0.656	lb ai/a			
COC	1	qt/a			
LIQUID N	2	qt/a			
17 DEFINE	0.68	lb ai/a	97	85	83
AATREX	1	lb ai/a			
EQUIP CORN HERBICIDE	0.03	lb ai/a			
M50	1.5	qt/a			
LIQUID N	1.5	qt/a			
18 CHECK UNTREATED			0	0	0
LSD (P=.05)			2.9	12.4	9.1
Standard Deviation			1.7	7.5	5.5
CV			1.9	11.14	7.5
Grand Mean			92.04	67.0	72.74
Bartlett's X2			5.203	22.165	10.259
P(Bartlett's X2)			0.392	0.104	0.853
Replicate F			0.916	1.419	0.944
Replicate Prob(F)			0.4096	0.2560	0.3990
Treatment F			519.499	19.831	35.731
Treatment Prob(F)			0.0001	0.0001	0.0001

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

CORN PREEMERGENCE

Trial ID: C4001
Location: LEXINGTON, KY

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

General Trial Information

Study Director: CHARLES H. SLACK
Affiliation: UNIVERSITY OF KENTUCKY
Postal Code: 40546
Investigator: Charles H. Slack

Trial Location

City: LEXINGTON **Trial Status:** COMPLETE
State/Prov.: KENTUCKY
Postal Code: 40511 **Initiation Date:** 4-27-04
Directions:

Objectives:

Conclusions:

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: GARST 8541 IT
BBCH Scale: BCOR **Planting Date:** 4-27-04
Planting Method: ROW **Rate, Unit:** 28000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM **Soil Temperature, Unit:** 57 F
Soil Moisture: SLIGHTLY WET **Emergence Date:** 5-3-04

Pest Description

Pest 1 Type: W **Code:** SETFA *Setaria faberi*
Common Name: Giant Foxtail
Pest 2 Type: W **Code:** CHEAL *Chenopodium album*
Common Name: Lambsquarters, common
Pest 3 Type: W **Code:** XANST *Xanthium strumarium*
Common Name: Common cocklebur
Pest 4 Type: W **Code:** IPOSS *Ipomoea sp.*
Common Name: Morning glory

Site and Design

Plot Width, Unit: 5 FT **Site Type:** FIELD
Plot Length, Unit: 44 FT **Tillage Type:** CONVENTIONAL-TILL
Replications: 3 **Study Design:** Randomized Complete Block

Trial Initiation Comments:

Field Prep./Maintenance:

Soil Description

% Sand: 6 **% OM:** 2.6 **Texture:** SILT LOAM
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY
% Clay: 32 **CEC:** 17 **Fert. Level:** EXCELLENT

Moisture Conditions

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

Application Description

	A		B	
Application Date:	4-27-04		5-27-04	
Time of Day:	10:00		1:00	
Application Method:	SPRAY		SPRAY	
Application Timing:	PRE		MP	
Application Placement:	BROSOI		BROFOL	
Air Temperature, Unit:	48	F	71	F
% Relative Humidity:	59		83	
Wind Velocity, Unit:	4	MPH	3	MPH
Dew Presence (Y/N):	N		N	
Soil Temperature, Unit:	57	F	72	F
Soil Moisture:	ADEQUATE		ADEQUATE	
% Cloud Cover:	10		20	

Crop Stage At Each Application

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

Pest Stage At Each Application

	A		B	
Pest 1 Code, Disc., Scale:	SETFA	W	SETFA	W
Height, Unit:			4	IN
Pest 2 Code, Disc., Scale:	CHEAL	W	CHEAL	W
Height, Unit:			5	IN
Pest 3 Code, Disc., Scale:	XANST	W	XANST	W
Height, Unit:			5	IN
Pest 4 Code, Disc., Scale:	IPOSS	W	IPOSS	W
Height, Unit:			3	IN

Application Equipment

	A		B	
Appl. Equipment:	ATV		BACKPACK	
Operating Pressure:	30		30	
Pressure Unit:	PSI		PSI	
Nozzle Type:	FLAT	FAN	FLAT	FAN
Nozzle Size:	8004	DG	8004	DG
Nozzle Spacing, Unit:	20	IN	20	IN
Boom Length, Unit:	5	FT	5	FT
Boom Height, Unit:	19	IN	25	IN
Ground Speed, Unit:	4	MPH	3.5	MPH
Carrier:	WATER		WATER	
Spray Volume:	24		24	
Volume Unit:	GPA		GPA	
Propellant:	CO2		CO2	

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CORN PREEMERGENCE II

Trial ID: C4002
Location: LEXINGTON, KY

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

Pest Type		W Weed		W Weed		W Weed
Pest Code		SETFA		CHEAL		XANST
Pest Name		Giant foxtail Lambsquarters, commo				Common cocklebur
Crop Code	ZEAMX					
BBCH Scale	BCOR					
Crop Name	Corn					
Rating Data Type	INJURY	CONTROL		CONTROL		CONTROL
Rating Unit	PERCENT	PERCENT		PERCENT		PERCENT
Trt-Eval Interval	2 WEEK	2 WEEK		2 WEEK		2 WEEK
ARM Action Codes	P	P		P		P
Number of Decimals	0	0		0		0

Trt No.	Treatment Name	Rate	Unit	1	2	3	4
1	CHECK UNTREATED			0	0	0	0
2	LUMAX	2.97	lb ai/a	0	98	97	95
3	BALANCE PRO	0.07	lb ai/a	0	98	96	87
	HARNESS XTRA	3.15	lb ai/a				
4	EPIC	0.435	lb ai/a	0	98	98	94
	AATREX	1.5	lb ai/a				
5	USA 2005	0.56	lb ai/a	0	98	97	90
	AATREX	1.5	lb ai/a				
6	USA 2005	0.656	lb ai/a	0	98	96	90
	AATREX	1.5	lb ai/a				
7	USA 2005	0.75	lb ai/a	0	98	97	90
	AATREX	1.5	lb ai/a				
8	LUMAX	2.46	lb ai/a	0	98	96	92
	AATREX	1	lb ai/a				
9	BALANCE PRO	0.07	lb ai/a	0	98	90	80
	DEFINE	0.375	lb ai/a				
	AATREX	1.5	lb ai/a				
10	BALANCE PRO	0.078	lb ai/a	0	98	97	92
	DEFINE	0.375	lb ai/a				
	AATREX	1.5	lb ai/a				
11	BICEP II MAGNUM	2.89	lb ai/a	0	98	91	88
12	BASIS	0.035	lb ai/a	0	80	95	88
	PRINCEP	1	lb ai/a				
	AATREX	1	lb ai/a				
	LSD (P=.05)			0.0	4.9	6.5	6.2
	Standard Deviation			0.0	2.9	3.8	3.7
	CV			0.0	3.27	4.38	4.46
	Grand Mean			0.0	88.33	87.5	82.17
	Bartlett's X2			0.0	0.0	19.334	5.725
	P(Bartlett's X2)			.	.	0.013*	0.767
	Replicate F			0.000	1.000	1.853	13.792
	Replicate Prob(F)			1.0000	0.3840	0.1804	0.0001
	Treatment F			0.000	288.218	156.148	152.887
	Treatment Prob(F)			1.0000	0.0001	0.0001	0.0001

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Pest Type		W Weed		W Weed		W Weed
Pest Code		IPOSS		SETFA		CHEAL
Pest Name		Morning glory		Giant foxtail		Lambsquarters, commo
Crop Code				ZEAMX		
BBCH Scale				BCOR		
Crop Name				Corn		
Rating Data Type		CONTROL	INJURY	CONTROL		CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT		PERCENT
Trt-Eval Interval		2 WEEK	4 WEEK	4 WEEK		4 WEEK
ARM Action Codes		P	P	P		P
Number of Decimals		0	0	0		0
Trt Treatment	Rate					
No. Name	Rate Unit	5	6	7		8
1 CHECK UNTREATED		0	0	0		0
2 LUMAX	2.97 lb ai/a	95	0	98		97
3 BALANCE PRO	0.07 lb ai/a	87	0	98		96
HARNESS XTRA	3.15 lb ai/a					
4 EPIC	0.435 lb ai/a	93	0	98		98
AATREX	1.5 lb ai/a					
5 USA 2005	0.56 lb ai/a	90	0	98		97
AATREX	1.5 lb ai/a					
6 USA 2005	0.656 lb ai/a	92	0	98		96
AATREX	1.5 lb ai/a					
7 USA 2005	0.75 lb ai/a	92	0	98		97
AATREX	1.5 lb ai/a					
8 LUMAX	2.46 lb ai/a	92	0	98		96
AATREX	1 lb ai/a					
9 BALANCE PRO	0.07 lb ai/a	82	0	98		90
DEFINE	0.375 lb ai/a					
AATREX	1.5 lb ai/a					
10 BALANCE PRO	0.078 lb ai/a	92	0	98		97
DEFINE	0.375 lb ai/a					
AATREX	1.5 lb ai/a					
11 BICEP II MAGNUM	2.89 lb ai/a	83	0	98		91
12 BASIS	0.035 lb ai/a	90	0	80		95
PRINCEP	1 lb ai/a					
AATREX	1 lb ai/a					
LSD (P=.05)		6.2	0.0	4.9		6.5
Standard Deviation		3.7	0.0	2.9		3.8
CV		4.45	0.0	3.27		4.38
Grand Mean		82.22	0.0	88.33		87.5
Bartlett's X2		6.341	0.0	0.0		19.334
P(Bartlett's X2)		0.705	.	.		0.013*
Replicate F		10.792	0.000	1.000		1.853
Replicate Prob(F)		0.0005	1.0000	0.3840		0.1804
Treatment F		153.774	0.000	288.218		156.148
Treatment Prob(F)		0.0001	1.0000	0.0001		0.0001

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Pest Type		W Weed	W Weed		W Weed
Pest Code		XANST	IPOSS		SETFA
Pest Name		Common cocklebur	Morning glory		Giant foxtail
Crop Code				ZEAMX	
BBCH Scale				BCOR	
Crop Name				Corn	
Rating Data Type		CONTROL	CONTROL	INJURY	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval		4 WEEK	4 WEEK	8 WEEK	8 WEEK
ARM Action Codes		P	P	P	P
Number of Decimals		0	0	0	0
Trt Treatment	Rate				
No. Name	Rate Unit	9	10	11	12
1 CHECK UNTREATED		0	0	0	0
2 LUMAX	2.97 lb ai/a	85	85	0	98
3 BALANCE PRO	0.07 lb ai/a	75	73	0	98
HARNESS XTRA	3.15 lb ai/a				
4 EPIC	0.435 lb ai/a	83	80	0	98
AATREX	1.5 lb ai/a				
5 USA 2005	0.56 lb ai/a	75	78	0	98
AATREX	1.5 lb ai/a				
6 USA 2005	0.656 lb ai/a	82	83	0	98
AATREX	1.5 lb ai/a				
7 USA 2005	0.75 lb ai/a	77	83	0	98
AATREX	1.5 lb ai/a				
8 LUMAX	2.46 lb ai/a	78	78	0	98
AATREX	1 lb ai/a				
9 BALANCE PRO	0.07 lb ai/a	58	62	0	98
DEFINE	0.375 lb ai/a				
AATREX	1.5 lb ai/a				
10 BALANCE PRO	0.078 lb ai/a	77	77	0	98
DEFINE	0.375 lb ai/a				
AATREX	1.5 lb ai/a				
11 BICEP II MAGNUM	2.89 lb ai/a	73	73	0	98
12 BASIS	0.035 lb ai/a	78	68	0	80
PRINCEP	1 lb ai/a				
AATREX	1 lb ai/a				
LSD (P=.05)		12.7	13.1	0.0	4.9
Standard Deviation		7.5	7.7	0.0	2.9
CV		10.71	10.99	0.0	3.27
Grand Mean		70.08	70.14	0.0	88.33
Bartlett's X2		9.39	7.754	0.0	0.0
P(Bartlett's X2)		0.496	0.653	.	.
Replicate F		9.061	13.829	0.000	1.000
Replicate Prob(F)		0.0013	0.0001	1.0000	0.3840
Treatment F		28.316	26.894	0.000	288.218
Treatment Prob(F)		0.0001	0.0001	1.0000	0.0001

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Pest Type	W Weed	W Weed	W Weed
Pest Code	CHEAL	XANST	IPOSS
Pest Name	Lambsquarters, commo	Common cocklebur	Morning glory
Crop Code			
BBCH Scale			
Crop Name			
Rating Data Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt Treatment	Rate				
No. Name	Rate	Unit	13	14	15
1 CHECK UNTREATED			0	0	0
2 LUMAX	2.97	lb ai/a	97	77	80
3 BALANCE PRO	0.07	lb ai/a	96	63	62
HARNESS XTRA	3.15	lb ai/a			
4 EPIC	0.435	lb ai/a	98	77	72
AATREX	1.5	lb ai/a			
5 USA 2005	0.56	lb ai/a	97	63	65
AATREX	1.5	lb ai/a			
6 USA 2005	0.656	lb ai/a	96	73	75
AATREX	1.5	lb ai/a			
7 USA 2005	0.75	lb ai/a	97	67	75
AATREX	1.5	lb ai/a			
8 LUMAX	2.46	lb ai/a	96	65	72
AATREX	1	lb ai/a			
9 BALANCE PRO	0.07	lb ai/a	90	40	52
DEFINE	0.375	lb ai/a			
AATREX	1.5	lb ai/a			
10 BALANCE PRO	0.078	lb ai/a	97	68	72
DEFINE	0.375	lb ai/a			
AATREX	1.5	lb ai/a			
11 BICEP II MAGNUM	2.89	lb ai/a	91	70	57
12 BASIS	0.035	lb ai/a	95	63	60
PRINCEP	1	lb ai/a			
AATREX	1	lb ai/a			
LSD (P=.05)			6.5	18.9	19.9
Standard Deviation			3.8	11.2	11.7
CV			4.38	18.46	19.04
Grand Mean			87.5	60.56	61.67
Bartlett's X2			19.334	6.246	17.164
P(Bartlett's X2)			0.013*	0.794	0.071
Replicate F			1.853	7.743	10.940
Replicate Prob(F)			0.1804	0.0028	0.0005
Treatment F			156.148	10.919	9.758
Treatment Prob(F)			0.0001	0.0001	0.0001

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Weed Science Field Research

CORN PREEMERGENCE II

Trial ID: C4002
Location: LEXINGTON, KY

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

General Trial Information

Study Director: CHARLES H. SLACK
Affiliation: UNIVERSITY OF KENTUCKY
Postal Code: 40546
Investigator: Charles H. Slack

Trial Location

City: LEXINGTON **Trial Status:** COMPLETE
State/Prov.: KENTUCKY
Postal Code: 40511 **Initiation Date:** 4-27-04
Directions:

Objectives:

Conclusions:

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: GARST 8541 IT
BBCH Scale: BCOR **Planting Date:** 4-27-04
Planting Method: ROW **Rate, Unit:** 28000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM **Soil Temperature, Unit:** 57 F
Soil Moisture: SLIGHTLY WET **Emergence Date:** 5-3-04

Pest Description

Pest 1 Type: W **Code:** SETFA *Setaria faberi*
Common Name: Giant Foxtail
Pest 2 Type: W **Code:** CHEAL *Chenopodium album*
Common Name: Lambsquarters, common
Pest 3 Type: W **Code:** XANST *Xanthium strumarium*
Common Name: Common cocklebur
Pest 4 Type: W **Code:** IPOSS *Ipomoea sp.*
Common Name: Morning glory

Site and Design

Plot Width, Unit: 5 FT **Site Type:** FIELD
Plot Length, Unit: 44 FT **Tillage Type:** CONVENTIONAL-TILL
Replications: 3 **Study Design:** Randomized Complete Block

Trial Initiation Comments:

Field Prep./Maintenance:

Soil Description

% Sand: 6 **% OM:** 2.6 **Texture:** SILT LOAM
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY
% Clay: 32 **CEC:** 17 **Fert. Level:** EXCELLENT

Moisture Conditions

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

Application Description**A**

Application Date: 4-27-04
Time of Day: 10:00
Application Method: SPRAY
Application Timing: PRE
Application Placement: BROSOI
Air Temperature, Unit: 48 F
% Relative Humidity: 59
Wind Velocity, Unit: 4 MPH
Dew Presence (Y/N): N
Soil Temperature, Unit: 57 F
Soil Moisture: ADEQUATE
% Cloud Cover: 20

Crop Stage At Each Application**A**

Crop 1 Code, BBCH Scale: ZEAMX BCOR
Stage Scale Used: BBCH

Pest Stage At Each Application**A**

Pest 1 Code, Disc., Scale: SETFA W
Pest 2 Code, Disc., Scale: CHEAL W
Pest 3 Code, Disc., Scale: XANST W
Pest 4 Code, Disc., Scale: IPOSS W

Application Equipment**A**

Appl. Equipment: ATV
Operating Pressure: 30
Pressure Unit: PSI
Nozzle Type: FLAT FAN
Nozzle Size: 8004 DG
Nozzle Spacing, Unit: 20 IN
Boom Length, Unit: 5 FT
Boom Height, Unit: 19 IN
Ground Speed, Unit: 4 MPH
Carrier: WATER
Spray Volume: 24
Volume Unit: GPA
Propellant: CO2

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CORN PREEMERGENCE III

Trial ID: C4003
Location: LEXINGTON, KY

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

Pest Type			W Weed	W Weed	W Weed
Pest Code			SETFA	XANST	AMBTR
Pest Name			Giant foxtail	Common cocklebur	Giant Ragweed
Crop Code	ZEAMX	ZEAMX			
BBCH Scale	BCOR	BCOR			
Crop Name	Corn	Corn			
Rating Data Type	INJURY	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	1 WK PRE	2 WK PRE	2 WEEK	2 WEEK	2 WEEK
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt Treatment	Rate	Rate						
No. Name	Rate	Unit	1	2	3	4	5	
1 CHECK			0	0	0		0	0
2 LEXAR	2.32	lb ai/a	0	0	99		96	99
3 LEXAR	2.78	lb ai/a	0	0	99		98	99
4 LEXAR	3.24	lb ai/a	0	0	99		98	99
5 BICEP II MAGNUM	2.89	lb ai/a	0	0	99		90	95
6 LUMAX	2.46	lb ai/a	0	0	99		95	99
7 LEXAR	2.78	lb ai/a	0	0	99		99	99
PRINCEP	1	lb ai/a						
8 GUARDSMAN MAX	1.88	lb ai/a	0	0	99		93	98
9 HARNESS XTRA	2.8	lb ai/a	0	0	99		96	98
10 EPIC	0.36	lb ai/a	0	0	99		83	82
11 KEYSTONE	3.41	lb ai/a	0	0	99		98	99
12 LUMAX	2.46	lb ai/a	0	0	99		98	99
AATREX	1	lb ai/a						
13 KEYSTONE	3.41	lb ai/a	0	0	99		99	99
HORNET	0.128	lb ai/a						
14 AATREX	1	lb ai/a	0	0	99		96	98
PRINCEP	1	lb ai/a						
15 DEFINE	0.56	lb ai/a	0	0	99		95	96
BALANCE PRO	0.07	lb ai/a						
16 BICEP II MAGNUM	1.65	lb ai/a	0	0	98		95	96
LUMAX	1.8	lb ai/a						
17 LUMAX	1.5	lb ai/a	0	0	99		95	98
LUMAX	1	lb ai/a						
18 BICEP II MAGNUM	2.89	lb ai/a	0	0	99		95	96
SPIRIT	0.036	lb ai/a						
COC	1	qt/a						
LIQUID N	2	qt/a						
LSD (P=.05)			0.0	0.0	0.9		3.9	2.5
Standard Deviation			0.0	0.0	0.6		2.3	1.5
CV			0.0	0.0	0.6		2.61	1.63
Grand Mean			0.0	0.0	93.41		89.91	91.54
Bartlett's X2			0.0	0.0	2.974		4.404	6.764
P(Bartlett's X2)			.	.	0.085		0.927	0.662
Replicate F			0.000	0.000	0.754		4.481	3.922
Replicate Prob(F)			1.0000	1.0000	0.4781		0.0187	0.0293
Treatment F			0.000	0.000	5108.751		281.478	728.609
Treatment Prob(F)			1.0000	1.0000	0.0001		0.0001	0.0001

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Pest Type		W Weed	W Weed	W Weed
Pest Code		CHEAL	IPOSS	SETFA
Pest Name		Lambsquarters, commo	Morning glory	Giant foxtail
Crop Code				ZEAMX
BBCH Scale				BCOR
Crop Name				Corn
Rating Data Type		CONTROL	CONTROL	INJURY
Rating Unit		PERCENT	PERCENT	PERCENT
Trt-Eval Interval		2 WEEK	2 WEEK	4 WEEK
ARM Action Codes		P	P	P
Number of Decimals		0	0	0
Trt Treatment	Rate			
No. Name	Rate Unit	6	7	8
1 CHECK		0	0	0
2 LEXAR	2.32 lb ai/a	99	99	0
3 LEXAR	2.78 lb ai/a	99	99	0
4 LEXAR	3.24 lb ai/a	99	99	0
5 BICEP II MAGNUM	2.89 lb ai/a	99	98	0
6 LUMAX	2.46 lb ai/a	99	99	0
7 LEXAR	2.78 lb ai/a	99	99	0
PRINCEP	1 lb ai/a			
8 GUARDSMAN MAX	1.88 lb ai/a	99	99	0
9 HARNESS XTRA	2.8 lb ai/a	99	99	0
10 EPIC	0.36 lb ai/a	98	96	0
11 KEYSTONE	3.41 lb ai/a	99	99	0
12 LUMAX	2.46 lb ai/a	99	99	0
AATREX	1 lb ai/a			
13 KEYSTONE	3.41 lb ai/a	99	99	3
HORNET	0.128 lb ai/a			
14 AATREX	1 lb ai/a	99	99	0
PRINCEP	1 lb ai/a			
15 DEFINE	0.56 lb ai/a	99	98	0
BALANCE PRO	0.07 lb ai/a			
16 BICEP II MAGNUM	1.65 lb ai/a	98	98	3
LUMAX	1.8 lb ai/a			
17 LUMAX	1.5 lb ai/a	99	99	3
LUMAX	1 lb ai/a			
18 BICEP II MAGNUM	2.89 lb ai/a	99	99	7
SPIRIT	0.036 lb ai/a			
COC	1 qt/a			
LIQUID N	2 qt/a			
LSD (P=.05)		1.3	2.6	4.4
Standard Deviation		0.8	1.6	2.6
CV		0.85	1.7	297.79
Grand Mean		93.33	93.09	0.89
Bartlett's X2		3.218	6.852	0.043
P(Bartlett's X2)		0.20	0.144	0.998
Replicate F		0.623	0.206	0.222
Replicate Prob(F)		0.5423	0.8149	0.8021
Treatment F		2608.587	643.746	1.494
Treatment Prob(F)		0.0001	0.0001	0.1558

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	XANST	AMBTR	CHEAL	IPOSS
Pest Name	Common cocklebur	Giant Ragweed	Lambsquarters, commo	Morning glory
Crop Code				
BBCH Scale				
Crop Name				
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	4 WEEK	4 WEEK	4 WEEK	4 WEEK
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt Treatment	Rate		10	11	12	13
No. Name	Rate	Unit				
1 CHECK			0	0	0	0
2 LEXAR	2.32	lb ai/a	91	91	97	90
3 LEXAR	2.78	lb ai/a	94	94	98	90
4 LEXAR	3.24	lb ai/a	95	95	98	92
5 BICEP II MAGNUM	2.89	lb ai/a	80	77	95	92
6 LUMAX	2.46	lb ai/a	91	89	95	88
7 LEXAR	2.78	lb ai/a	98	98	98	92
PRINCEP	1	lb ai/a				
8 GUARDSMAN MAX	1.88	lb ai/a	83	83	95	87
9 HARNESS XTRA	2.8	lb ai/a	87	85	96	92
10 EPIC	0.36	lb ai/a	53	53	92	83
11 KEYSTONE	3.41	lb ai/a	93	93	96	90
12 LUMAX	2.46	lb ai/a	93	93	99	92
AATREX	1	lb ai/a				
13 KEYSTONE	3.41	lb ai/a	93	93	96	93
HORNET	0.128	lb ai/a				
14 AATREX	1	lb ai/a	87	87	95	90
PRINCEP	1	lb ai/a				
15 DEFINE	0.56	lb ai/a	83	82	93	87
BALANCE PRO	0.07	lb ai/a				
16 BICEP II MAGNUM	1.65	lb ai/a	99	99	99	99
LUMAX	1.8	lb ai/a				
17 LUMAX	1.5	lb ai/a	95	99	99	98
LUMAX	1	lb ai/a				
18 BICEP II MAGNUM	2.89	lb ai/a	99	99	99	93
SPIRIT	0.036	lb ai/a				
COC	1	qt/a				
LIQUID N	2	qt/a				
LSD (P=.05)			9.1	8.5	3.2	5.8
Standard Deviation			5.5	5.1	1.9	3.5
CV			6.49	6.08	2.11	4.02
Grand Mean			84.11	83.91	91.09	85.91
Bartlett's X2			27.478	24.279	5.911	10.625
P(Bartlett's X2)			0.036*	0.042*	0.823	0.779
Replicate F			5.978	7.140	2.884	3.749
Replicate Prob(F)			0.0060	0.0026	0.0697	0.0338
Treatment F			55.216	64.233	421.921	118.994
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0001

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Pest Type		W Weed	W Weed	W Weed	
Pest Code		SETFA	XANST	AMBTR	
Pest Name		Giant foxtail	Common cocklebur	Giant Ragweed	
Crop Code	ZEAMX				
BBCH Scale	BCOR				
Crop Name	Corn				
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	
Trt-Eval Interval	8 WEEK	8 WEEK	4 WEEK	8 WEEK	
ARM Action Codes	P	P	P	P	
Number of Decimals	0	0	0	0	
Trt Treatment	Rate				
No. Name	Rate Unit	14	15	16	
		17			
1 CHECK		0	0	0	0
2 LEXAR	2.32 lb ai/a	0	99	83	82
3 LEXAR	2.78 lb ai/a	0	99	78	78
4 LEXAR	3.24 lb ai/a	0	99	90	90
5 BICEP II MAGNUM	2.89 lb ai/a	0	99	70	60
6 LUMAX	2.46 lb ai/a	0	98	82	83
7 LEXAR	2.78 lb ai/a	0	99	96	96
PRINCEP	1 lb ai/a				
8 GUARDSMAN MAX	1.88 lb ai/a	0	99	72	68
9 HARNESS XTRA	2.8 lb ai/a	0	99	78	77
10 EPIC	0.36 lb ai/a	0	99	23	23
11 KEYSTONE	3.41 lb ai/a	0	99	78	77
12 LUMAX	2.46 lb ai/a	0	99	88	83
AATREX	1 lb ai/a				
13 KEYSTONE	3.41 lb ai/a	3	99	83	82
HORNET	0.128 lb ai/a				
14 AATREX	1 lb ai/a	0	75	77	73
PRINCEP	1 lb ai/a				
15 DEFINE	0.56 lb ai/a	0	99	70	68
BALANCE PRO	0.07 lb ai/a				
16 BICEP II MAGNUM	1.65 lb ai/a	0	99	97	96
LUMAX	1.8 lb ai/a				
17 LUMAX	1.5 lb ai/a	0	99	95	98
LUMAX	1 lb ai/a				
18 BICEP II MAGNUM	2.89 lb ai/a	7	99	98	98
SPIRIT	0.036 lb ai/a				
COC	1 qt/a				
LIQUID N	2 qt/a				
LSD (P=.05)		3.2	12.0	13.5	13.0
Standard Deviation		1.9	7.2	8.1	7.8
CV		341.28	7.83	10.76	10.57
Grand Mean		0.56	92.07	75.5	74.04
Bartlett's X2		0.0	19.141	27.656	28.425
P(Bartlett's X2)		1.00	0.001*	0.024*	0.028*
Replicate F		1.545	0.890	8.607	13.776
Replicate Prob(F)		0.2278	0.4200	0.0009	0.0001
Treatment F		2.455	32.279	28.909	31.663
Treatment Prob(F)		0.0127	0.0001	0.0001	0.0001

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Pest Type	W Weed	W Weed	
Pest Code	CHEAL	IPOSS	
Pest Name	Lambsquarters, commo Morning glory		
Crop Code			ZEAMX
BBCH Scale			BCOR
Crop Name			Corn
Rating Data Type	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	BU/A
Trt-Eval Interval	8 WEEK	8 WEEK	
ARM Action Codes	P	P	TY1
Number of Decimals	0	0	1

Trt Treatment	Rate			
No. Name	Rate	Unit	18	19
				24
1 CHECK			0	0 101.4
2 LEXAR	2.32	lb ai/a	97	73 207.6
3 LEXAR	2.78	lb ai/a	98	75 215.3
4 LEXAR	3.24	lb ai/a	98	83 215.7
5 BICEP II MAGNUM	2.89	lb ai/a	93	83 162.6
6 LUMAX	2.46	lb ai/a	95	75 204.2
7 LEXAR	2.78	lb ai/a	98	80 228.9
PRINCEP	1	lb ai/a		
8 GUARDSMAN MAX	1.88	lb ai/a	93	63 154.8
9 HARNESS XTRA	2.8	lb ai/a	96	83 193.4
10 EPIC	0.36	lb ai/a	92	57 56.2
11 KEYSTONE	3.41	lb ai/a	96	63 161.5
12 LUMAX	2.46	lb ai/a	99	88 204.8
AATREX	1	lb ai/a		
13 KEYSTONE	3.41	lb ai/a	96	83 202.6
HORNET	0.128	lb ai/a		
14 AATREX	1	lb ai/a	95	68 172.3
PRINCEP	1	lb ai/a		
15 DEFINE	0.56	lb ai/a	93	70 122.8
BALANCE PRO	0.07	lb ai/a		
16 BICEP II MAGNUM	1.65	lb ai/a	98	97 214.2
LUMAX	1.8	lb ai/a		
17 LUMAX	1.5	lb ai/a	99	98 224.2
LUMAX	1	lb ai/a		
18 BICEP II MAGNUM	2.89	lb ai/a	99	93 219.4
SPIRIT	0.036	lb ai/a		
COC	1	qt/a		
LIQUID N	2	qt/a		
LSD (P=.05)			3.6	10.6 45.52
Standard Deviation			2.2	6.3 27.30
CV			2.37	8.54 15.07
Grand Mean			90.85	74.17 181.21
Bartlett's X2			2.187	23.713 19.772
P(Bartlett's X2)			0.999	0.07 0.286
Replicate F			3.548	5.458 11.781
Replicate Prob(F)			0.0398	0.0088 0.0001
Treatment F			335.565	35.714 9.073
Treatment Prob(F)			0.0001	0.0001 0.0001

Column 20: TY1 = 4.204633*[C21]*(100-[C22])/85

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

CORN PREEMERGENCE III

Trial ID: C4003
Location: LEXINGTON, KYStudy Director: CHARLES H. SLACK
Investigator: Charles H. Slack**General Trial Information****Study Director:** CHARLES H. SLACK
Affiliation: UNIVERSITY OF KENTUCKY
Postal Code: 40546
Investigator: Charles H. Slack**Trial Location****City:** LEXINGTON **Trial Status:** COMPLETE
State/Prov.: KENTUCKY
Postal Code: 40511 **Initiation Date:** 4-27-04
Directions:**Objectives:****Conclusions:****Crop Description****Crop 1:** ZEAMX Zea mays **Corn**
Variety: GARST 8541 IT
BBCH Scale: BCOR **Planting Date:** 4-27-04
Planting Method: ROW **Rate, Unit:** 28000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM **Soil Temperature, Unit:** 57 F
Soil Moisture: SLIGHTLY WET **Emergence Date:** 5-3-04
Harvest Date: 9-24-04 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 60 IN **Harvested Length, Unit:** 37 FT**Pest Description****Pest 1 Type:** W **Code:** SETFA **Setaria faberi**
Common Name: Giant Foxtail
Pest 2 Type: W **Code:** XANST **Xanthium strumarium**
Common Name: Common cocklebur
Pest 3 Type: W **Code:** AMBTR **Ambrosia trifida**
Common Name: Giant Ragweed
Pest 4 Type: W **Code:** CHEAL **Chenopodium album**
Common Name: Lambsquarters, common
Pest 5 Type: W **Code:** IPOSS **Ipomoea sp.**
Common Name: Morning glory**Site and Design****Plot Width, Unit:** 10 FT **Site Type:** FIELD
Plot Length, Unit: 44 FT **Tillage Type:** CONVENTIONAL-TILL
Replications: 3 **Study Design:** Randomized Complete Block**Trial Initiation Comments:****Field Prep./Maintenance:****Soil Description****% Sand:** 6 **% OM:** 2.6 **Texture:** SILT LOAM
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY
% Clay: 32 **CEC:** 17 **Fert. Level:** EXCELLENT**Moisture Conditions****Overall Moisture Conditions:** NORMAL
Closest Weather Station: SPINDLETOP**Distance:** 1.5 **Unit:** MI

Application Description

	A		B	
Application Date:	4-27-04		5-28-04	
Time of Day:	11:00		2:00	
Application Method:	SPRAY		SPRAY	
Application Timing:	PRE		MP	
Application Placement:	BROSOI		BROFOL	
Air Temperature, Unit:	48	F	69	F
% Relative Humidity:	59		75	
Wind Velocity, Unit:	4	MPH	3	MPH
Dew Presence (Y/N):	N		N	
Soil Temperature, Unit:	57	F	73	F
Soil Moisture:	ADEQUATE		ADEQUATE	
% Cloud Cover:	10		20	

Crop Stage At Each Application

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

Pest Stage At Each Application

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

Application Equipment

	A		B	
Appl. Equipment:	ATV		BACKPACK	
Operating Pressure:	30		30	
Pressure Unit:	PSI		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:	19	IN	25	IN
Ground Speed, Unit:	4	MPH	3.5	MPH
Carrier:	WATER		WATER	
Spray Volume:	24		24	
Volume Unit:	GPA		GPA	
Propellant:	CO2		CO2	

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Weed Science Field Research

NO-TILL CORN

Trial ID: C4004
Location: LEXINGTON, KY

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

Pest Type	W Weed	W Weed	W Weed
Pest Code	SETFA	CHEAL	AMACH
Pest Name	Giant foxtail	Lambsquarters, commo	Smooth pigweed
Crop Code	ZEAMX		
BBCH Scale	BCOR		
Crop Name	Corn		
Rating Data Type	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2WEEK	2WEEK	2WEEK
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt Treatment	Rate	Rate Unit	1	2	3	4
No. Name	Rate	Unit				
1 CHECK UNTREATED			0	0		0
ROUNDUP WeatherMAX	22	fl oz/a				
2 KIH-485	0.148	lb ai/a	0	98	98	98
ROUNDUP WeatherMAX	22	fl oz/a				
3 KIH-485	0.186	lb ai/a	0	99	99	99
ROUNDUP WeatherMAX	22	fl oz/a				
4 KIH-485	0.223	lb ai/a	0	99	98	99
ROUNDUP WeatherMAX	22	fl oz/a				
5 KIH-485	0.372	lb ai/a	0	99	99	99
ROUNDUP WeatherMAX	22	fl oz/a				
6 DUAL II MAGNUM	1.59	lb ai/a	0	99	96	96
ROUNDUP WeatherMAX	22	fl oz/a				
7 DUAL II MAGNUM	2.54	lb ai/a	3	99	96	96
ROUNDUP WeatherMAX	22	fl oz/a				
8 KIH-485/ATRAZINE	0.932	lb ai/a	0	99	99	99
ROUNDUP WeatherMAX	22	fl oz/a				
9 KIH-485/ATRAZINE	1.38	lb ai/a	3	99	99	99
ROUNDUP WeatherMAX	22	fl oz/a				
10 KIH-485/ATRAZINE	1.82	lb ai/a	0	99	99	99
ROUNDUP WeatherMAX	22	fl oz/a				
11 BICEP LITE II MAGNUM	2.28	lb ai/a	0	99	99	99
ROUNDUP WeatherMAX	22	fl oz/a				
12 BICEP II MAGNUM	2.89	lb ai/a	0	99	99	99
ROUNDUP WeatherMAX	22	fl oz/a				
13 DUAL II MAGNUM	1.27	lb ai/a	0	99	98	99
ROUNDUP WeatherMAX	22	fl oz/a				
LSD (P=.05)			3.5	1.1	2.4	1.9
Standard Deviation			2.1	0.6	1.4	1.1
CV			450.69	0.7	1.55	1.25
Grand Mean			0.46	91.28	90.67	90.87
Bartlett's X2			0.0	0.0	0.0	0.0
P(Bartlett's X2)			1.00	.	1.00	1.00
Replicate F			0.480	1.000	1.448	0.316
Replicate Prob(F)			0.6246	0.3827	0.2548	0.7322
Treatment F			0.880	5501.688	1124.332	1723.849
Treatment Prob(F)			0.5770	0.0001	0.0001	0.0001

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Pest Type			W Weed	W Weed	W Weed	
Pest Code			SETFA	CHEAL	AMACH	
Pest Name			Giant foxtail	Lambsquarters, commo	Smooth pigweed	
Crop Code		ZEAMX				
BBCH Scale		BCOR				
Crop Name		Corn				
Rating Data Type		INJURY	CONTROL	CONTROL	CONTROL	
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	
Trt-Eval Interval		4 WEEK	4 WEEK	4 WEEK	4 WEEK	
ARM Action Codes		P	P	P	P	
Number of Decimals		0	0	0	0	
Trt Treatment	Rate	Rate				
No. Name	Rate	Unit	5	6	7	8
1 CHECK UNTREATED			0	0	0	0
ROUNDUP WeatherMAX	22 fl oz/a					
2 KIH-485	0.148 lb ai/a		0	98	94	96
ROUNDUP WeatherMAX	22 fl oz/a					
3 KIH-485	0.186 lb ai/a		0	99	98	98
ROUNDUP WeatherMAX	22 fl oz/a					
4 KIH-485	0.223 lb ai/a		0	91	95	96
ROUNDUP WeatherMAX	22 fl oz/a					
5 KIH-485	0.372 lb ai/a		0	99	99	99
ROUNDUP WeatherMAX	22 fl oz/a					
6 DUAL II MAGNUM	1.59 lb ai/a		0	96	87	93
ROUNDUP WeatherMAX	22 fl oz/a					
7 DUAL II MAGNUM	2.54 lb ai/a		3	96	85	87
ROUNDUP WeatherMAX	22 fl oz/a					
8 KIH-485/ATRAZINE	0.932 lb ai/a		0	96	95	95
ROUNDUP WeatherMAX	22 fl oz/a					
9 KIH-485/ATRAZINE	1.38 lb ai/a		0	96	98	98
ROUNDUP WeatherMAX	22 fl oz/a					
10 KIH-485/ATRAZINE	1.82 lb ai/a		0	99	99	99
ROUNDUP WeatherMAX	22 fl oz/a					
11 BICEP LITE II MAGNUM	2.28 lb ai/a		0	98	98	98
ROUNDUP WeatherMAX	22 fl oz/a					
12 BICEP II MAGNUM	2.89 lb ai/a		0	93	96	94
ROUNDUP WeatherMAX	22 fl oz/a					
13 DUAL II MAGNUM	1.27 lb ai/a		0	94	95	95
ROUNDUP WeatherMAX	22 fl oz/a					
LSD (P=.05)			2.4	6.8	9.0	5.4
Standard Deviation			1.4	4.0	5.3	3.2
CV			624.5	4.53	6.08	3.64
Grand Mean			0.23	88.9	87.49	88.28
Bartlett's X2			0.0	7.766	9.553	7.109
P(Bartlett's X2)			.	0.457	0.298	0.418
Replicate F			1.000	3.003	0.623	0.644
Replicate Prob(F)			0.3827	0.0685	0.5447	0.5339
Treatment F			1.000	133.154	75.207	207.784
Treatment Prob(F)			0.4777	0.0001	0.0001	0.0001

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Pest Type			W Weed		W Weed		W Weed
Pest Code			SETFA		CHEAL		AMACH
Pest Name			Giant foxtail	Lambsquarters,	commo	Smooth	pigweed
Crop Code		ZEAMX					
BBCH Scale		BCOR					
Crop Name		Corn					
Rating Data Type		INJURY	CONTROL		CONTROL		CONTROL
Rating Unit		PERCENT	PERCENT		PERCENT		PERCENT
Trt-Eval Interval		8 WEEK	8 WEEK		8 WEEK		8 WEEK
ARM Action Codes		P	P		P		P
Number of Decimals		0	0		0		0
Trt Treatment	Rate	Unit	9	10	11	12	
No. Name	Rate	Unit					
1 CHECK UNTREATED			0	0		0	0
ROUNDUP WeatherMAX	22 fl oz/a						
2 KIH-485	0.148 lb ai/a		0	95		94	96
ROUNDUP WeatherMAX	22 fl oz/a						
3 KIH-485	0.186 lb ai/a		0	96		98	98
ROUNDUP WeatherMAX	22 fl oz/a						
4 KIH-485	0.223 lb ai/a		0	85		95	96
ROUNDUP WeatherMAX	22 fl oz/a						
5 KIH-485	0.372 lb ai/a		0	96		99	99
ROUNDUP WeatherMAX	22 fl oz/a						
6 DUAL II MAGNUM	1.59 lb ai/a		0	91		87	93
ROUNDUP WeatherMAX	22 fl oz/a						
7 DUAL II MAGNUM	2.54 lb ai/a		3	88		85	87
ROUNDUP WeatherMAX	22 fl oz/a						
8 KIH-485/ATRAZINE	0.932 lb ai/a		0	93		95	95
ROUNDUP WeatherMAX	22 fl oz/a						
9 KIH-485/ATRAZINE	1.38 lb ai/a		0	93		98	98
ROUNDUP WeatherMAX	22 fl oz/a						
10 KIH-485/ATRAZINE	1.82 lb ai/a		0	96		99	99
ROUNDUP WeatherMAX	22 fl oz/a						
11 BICEP LITE II MAGNUM	2.28 lb ai/a		0	91		98	98
ROUNDUP WeatherMAX	22 fl oz/a						
12 BICEP II MAGNUM	2.89 lb ai/a		0	87		96	94
ROUNDUP WeatherMAX	22 fl oz/a						
13 DUAL II MAGNUM	1.27 lb ai/a		0	91		95	95
ROUNDUP WeatherMAX	22 fl oz/a						
LSD (P=.05)			2.4	11.7		9.0	5.4
Standard Deviation			1.4	6.9		5.3	3.2
CV			624.5	8.18		6.08	3.64
Grand Mean			0.23	84.79		87.49	88.28
Bartlett's X2			0.0	10.578		9.553	7.109
P(Bartlett's X2)			.	0.479		0.298	0.418
Replicate F			1.000	3.050		0.623	0.644
Replicate Prob(F)			0.3827	0.0660		0.5447	0.5339
Treatment F			1.000	41.278		75.207	207.784
Treatment Prob(F)			0.4777	0.0001		0.0001	0.0001

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Weed Science Field Research

NO-TILL CORN

Trial ID: C4004
Location: LEXINGTON, KY

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

General Trial Information

Study Director: CHARLES H. SLACK
Affiliation: UNIVERSITY OF KENTUCKY
Postal Code: 40546
Investigator: Charles H. Slack

Trial Location

City: LEXINGTON **Trial Status:** COMPLETE
State/Prov.: KENTUCKY
Postal Code: 40511 **Initiation Date:** 4-29-04
Directions:

Objectives:

Conclusions:

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC 64-11 RR
BBCH Scale: BCOR **Planting Date:** 4-29-04
Planting Method: ROW **Rate, Unit:** 28000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM/TRASHY **Soil Temperature, Unit:** 58 F
Soil Moisture: SLIGHTLY WET **Emergence Date:** 5-4-04

Pest Description

Pest 1 Type: W **Code:** SETFA *Setaria faberi*
Common Name: Giant Foxtail
Pest 2 Type: W **Code:** CHEAL *Chenopodium album*
Common Name: Lambsquarters, common
Pest 3 Type: W **Code:** AMACH *Amaranthus hybridus*
Common Name: Smooth pigweed

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD
Plot Length, Unit: 44 FT **Tillage Type:** NO-TILL
Replications: 3 **Study Design:** Randomized Complete Block

Trial Initiation Comments:

Field Prep./Maintenance:

Soil Description

% Sand: 6 **% OM:** 2.6 **Texture:** SILT LOAM
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY
% Clay: 32 **CEC:** 17 **Fert. Level:** EXCELLENT

Moisture Conditions

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

Application Description**A**

Application Date: 4-29-04
Time of Day: 2:00
Application Method: SPRAY
Application Timing: PRE
Application Placement: BROFOL
Air Temperature, Unit: 64 F
% Relative Humidity: 53
Wind Velocity, Unit: 2 MPH
Dew Presence (Y/N): N
Soil Temperature, Unit: 58 F
Soil Moisture: ADEQUATE
% Cloud Cover: 10

Crop Stage At Each Application**A**

Crop 1 Code, BBCH Scale: ZEAMX BCOR
Stage Scale Used: BBCH

Pest Stage At Each Application**A**

Pest 1 Code, Disc., Scale: SETFA W
Height, Unit: 1 IN
Pest 2 Code, Disc., Scale: CHEAL W
Height, Unit: 1 IN
Pest 3 Code, Disc., Scale: AMACH W
Height, Unit: 1 IN

Application Equipment**A**

Appl. Equipment: ATV
Operating Pressure: 30
Pressure Unit: PSI
Nozzle Type: FLAT FAN
Nozzle Size: 8004 DG
Nozzle Spacing, Unit: 20 IN
Boom Length, Unit: 10 FT
Boom Height, Unit: 19 IN
Ground Speed, Unit: 4 MPH
Carrier: WATER
Spray Volume: 24
Volume Unit: GPA
Propellant: CO2

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Weed Science Field Research

CORN PREEMERGENCE IX

Trial ID: C4005
Location: LEXINGTON, KY

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

Pest Type		W Weed		W Weed
Pest Code		SETFA		CHEAL
Pest Name		Giant foxtail	Lambsquarters,	commo
Crop Code	ZEAMX			ZEAMX
BBCH Scale	BCOR			BCOR
Crop Name	Corn			Corn
Rating Data Type	INJURY	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2WEEK	2WEEK	2WEEK	4 WEEK
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt Treatment	Rate	Rate Unit	1	2	3	4
1 CHECK UNTREATED			0	0	0	0
2 KIH-485	0.148	lb ai/a	0	90	87	0
3 KIH-485	0.186	lb ai/a	0	94	93	0
4 KIH-485	0.223	lb ai/a	0	98	96	0
5 KIH-485	0.296	lb ai/a	0	99	97	0
6 DUAL II MAGNUM	1.27	lb ai/a	0	96	90	0
7 DUAL II MAGNUM	2.54	lb ai/a	0	99	92	0
8 KIH-485/ATRAZINE	0.741	lb ai/a	0	93	97	0
9 KIH-485/ATRAZINE	1.097	lb ai/a	0	96	96	0
10 KIH-485/ATRAZINE	1.45	lb ai/a	0	98	99	0
11 BICEP LITE II MAGNUM	1.67	lb ai/a	0	98	98	0
12 BICEP II MAGNUM	2.2	lb ai/a	0	99	99	0
LSD (P=.05)			0.0	7.2	5.8	0.0
Standard Deviation			0.0	4.2	3.4	0.0
CV			0.0	4.8	3.92	0.0
Grand Mean			0.0	88.28	87.03	0.0
Bartlett's X2			0.0	16.172	7.406	0.0
P(Bartlett's X2)			.	0.04*	0.494	.
Replicate F			0.000	0.674	1.288	0.000
Replicate Prob(F)			1.0000	0.5197	0.2957	1.0000
Treatment F			0.000	130.383	197.001	0.000
Treatment Prob(F)			1.0000	0.0001	0.0001	1.0000

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

Pest Type	W Weed	W Weed	W Weed
Pest Code	SETFA	CHEAL	SETFA
Pest Name	Giant foxtail	Lambsquarters, commo	Giant foxtail
Crop Code			ZEAMX
BBCH Scale			BCOR
Crop Name			Corn
Rating Data Type	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	4 WEEK	4 WEEK	8 WEEK
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt Treatment	Rate	Unit	5	6	7	8
No. Name	Rate	Unit				
1 CHECK UNTREATED			0		0	0
2 KIH-485	0.148	lb ai/a	85	67	0	82
3 KIH-485	0.186	lb ai/a	92	78	0	85
4 KIH-485	0.223	lb ai/a	92	80	0	91
5 KIH-485	0.296	lb ai/a	95	80	0	93
6 DUAL II MAGNUM	1.27	lb ai/a	90	65	0	87
7 DUAL II MAGNUM	2.54	lb ai/a	96	70	0	92
8 KIH-485/ATRAZINE	0.741	lb ai/a	82	88	0	82
9 KIH-485/ATRAZINE	1.097	lb ai/a	88	87	0	85
10 KIH-485/ATRAZINE	1.45	lb ai/a	90	93	0	90
11 BICEP LITE II MAGNUM	1.67	lb ai/a	87	85	0	82
12 BICEP II MAGNUM	2.2	lb ai/a	92	93	0	88
LSD (P=.05)			9.5	8.5	0.0	9.9
Standard Deviation			5.6	5.0	0.0	5.8
CV			6.79	6.81	0.0	7.33
Grand Mean			82.28	73.89	0.0	79.67
Bartlett's X2			10.138	8.024	0.0	9.418
P(Bartlett's X2)			0.339	0.431	.	0.493
Replicate F			0.324	6.776	0.000	1.351
Replicate Prob(F)			0.7266	0.0051	1.0000	0.2797
Treatment F			66.157	74.893	0.000	56.808
Treatment Prob(F)			0.0001	0.0001	1.0000	0.0001

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Pest Type	W Weed
Pest Code	CHEAL
Pest Name	Lambsquarters, commo
Crop Code	
BBCH Scale	
Crop Name	
Rating Data Type	CONTROL
Rating Unit	PERCENT
Trt-Eval Interval	8 WEEK
ARM Action Codes	P
Number of Decimals	0

Trt Treatment	Rate	Rate	
No. Name	Rate	Unit	9
1 CHECK UNTREATED			0
2 KIH-485	0.148 lb	ai/a	67
3 KIH-485	0.186 lb	ai/a	78
4 KIH-485	0.223 lb	ai/a	80
5 KIH-485	0.296 lb	ai/a	80
6 DUAL II MAGNUM	1.27 lb	ai/a	65
7 DUAL II MAGNUM	2.54 lb	ai/a	70
8 KIH-485/ATRAZINE	0.741 lb	ai/a	88
9 KIH-485/ATRAZINE	1.097 lb	ai/a	87
10 KIH-485/ATRAZINE	1.45 lb	ai/a	93
11 BICEP LITE II MAGNUM	1.67 lb	ai/a	85
12 BICEP II MAGNUM	2.2 lb	ai/a	93
LSD (P=.05)			8.5
Standard Deviation			5.0
CV			6.81
Grand Mean			73.89
Bartlett's X2			8.024
P(Bartlett's X2)			0.431
Replicate F			6.776
Replicate Prob(F)			0.0051
Treatment F			74.893
Treatment Prob(F)			0.0001

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CORN PREEMERGENCE IX

Trial ID: C4005
Location: LEXINGTON, KY

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

General Trial Information

Study Director: CHARLES H. SLACK
Affiliation: UNIVERSITY OF KENTUCKY
Postal Code: 40546
Investigator: Charles H. Slack

Trial Location

City: LEXINGTON **Trial Status:** COMPLETE
State/Prov.: KENTUCKY
Postal Code: 40511 **Initiation Date:** 4-29-04
Directions:

Objectives:**Conclusions:****Crop Description**

Crop 1: ZEAMX Zea mays **Corn**
Variety: GARST 8541 IT
BBCH Scale: BCOR **Planting Date:** 4-29-04
Planting Method: ROW **Rate, Unit:** 28000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM **Soil Temperature, Unit:** 62 F
Soil Moisture: SLIGHTLY WET **Emergence Date:** 5-4-04

Pest Description

Pest 1 Type: W **Code:** SETFA **Setaria faberi**
Common Name: Giant Foxtail
Pest 2 Type: W **Code:** CHEAL **Chenopodium album**
Common Name: Lambsquarters, common

Site and Design

Plot Width, Unit: 5 FT **Site Type:** FIELD
Plot Length, Unit: 44 FT **Tillage Type:** CONVENTIONAL-TILL
Replications: 3 **Study Design:** Randomized Complete Block

Trial Initiation Comments:**Field Prep./Maintenance:****Soil Description**

% Sand: 6 **% OM:** 2.6 **Texture:** SILT LOAM
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY
% Clay: 32 **CEC:** 17 **Fert. Level:** EXCELLENT

Moisture Conditions

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

Application Description**A**

Application Date: 4-29-04
Time of Day: 2:30
Application Method: SPRAY
Application Timing: PRE
Application Placement: BROSOI
Air Temperature, Unit: 64 F
% Relative Humidity: 53
Wind Velocity, Unit: 2 MPH
Dew Presence (Y/N): N
Soil Temperature, Unit: 62 F
Soil Moisture: ADEQUATE
% Cloud Cover: 10

Crop Stage At Each Application**A**

Crop 1 Code, BBCH Scale: ZEAMX BCOR
Stage Scale Used: BBCH

Pest Stage At Each Application**A**

Pest 1 Code, Disc., Scale: SETFA W
Pest 2 Code, Disc., Scale: CHEAL W

Application Equipment**A**

Appl. Equipment: ATV
Operating Pressure: 30
Pressure Unit: PSI
Nozzle Type: FLAT FAN
Nozzle Size: 8004 DG
Nozzle Spacing, Unit: 20 IN
Boom Length, Unit: 5 FT
Boom Height, Unit: 19 IN
Ground Speed, Unit: 4 MPH
Carrier: WATER
Spray Volume: 24
Volume Unit: GPA
Propellant: CO2

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CORN PREEMERGENCE X

Trial ID: C4006
Location: LEXINGTON, KY

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

Pest Type		W Weed	W Weed		W Weed
Pest Code		SETFA	ABUTH		SETFA
Pest Name		Giant foxtail	Velvetleaf		Giant foxtail
Crop Code	ZEAMX			ZEAMX	
BBCH Scale	BCOR			BCOR	
Crop Name	Corn			Corn	
Rating Data Type	INJURY	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEK	2WEEK	2 WEEK	4 WEEK	4 WEEK
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt Treatment	Rate	Rate Unit	1	2	3	4	5
1 CHECK UNTREATED			0	0	0	0	0
2 KIH-485	0.148	lb ai/a	0	97	96	0	95
3 KIH-485	0.186	lb ai/a	0	99	97	0	99
4 KIH-485	0.223	lb ai/a	0	100	99	0	100
5 KIH-485	0.373	lb ai/a	0	100	99	2	100
6 DUAL II MAGNUM	1.59	lb ai/a	0	99	90	0	99
7 DUAL II MAGNUM	3.19	lb ai/a	3	99	90	3	99
8 KIH-485/ATRAZINE	0.93	lb ai/a	0	100	100	0	100
9 KIH-485/ATRAZINE	1.38	lb ai/a	0	98	99	0	98
10 KIH-485/ATRAZINE	1.82	lb ai/a	0	100	100	0	100
11 BICEP LITE II MAGNUM	2.28	lb ai/a	0	99	96	0	99
12 BICEP II MAGNUM	2.89	lb ai/a	0	99	98	0	99
LSD (P=.05)			2.5	2.3	4.8	3.0	3.1
Standard Deviation			1.5	1.3	2.8	1.7	1.8
CV			600.0	1.48	3.17	449.68	2.02
Grand Mean			0.25	90.78	88.69	0.39	90.64
Bartlett's X2			0.0	16.898	19.89	0.641	25.364
P(Bartlett's X2)			.	0.05	0.03*	0.423	0.003*
Replicate F			1.000	0.430	1.527	0.554	0.107
Replicate Prob(F)			0.3840	0.6558	0.2393	0.5824	0.8986
Treatment F			1.000	1357.184	299.522	0.889	728.700
Treatment Prob(F)			0.4767	0.0001	0.0001	0.5646	0.0001

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Pest Type	W Weed	W Weed	W Weed
Pest Code	ABUTH	SETFA	ABUTH
Pest Name	Velvetleaf	Giant foxtail	Velvetleaf
Crop Code		ZEAMX	
BBCH Scale		BCOR	
Crop Name		Corn	
Rating Data Type	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	4 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt Treatment	Rate	Unit	6	7	8	9
No. Name	Rate	Unit				
1 CHECK UNTREATED			0	0	0	0
2 KIH-485	0.148	lb ai/a	82	0	95	82
3 KIH-485	0.186	lb ai/a	85	0	97	85
4 KIH-485	0.223	lb ai/a	78	0	98	78
5 KIH-485	0.373	lb ai/a	88	2	100	88
6 DUAL II MAGNUM	1.59	lb ai/a	68	0	95	68
7 DUAL II MAGNUM	3.19	lb ai/a	68	3	98	68
8 KIH-485/ATRAZINE	0.93	lb ai/a	88	0	98	88
9 KIH-485/ATRAZINE	1.38	lb ai/a	96	0	98	96
10 KIH-485/ATRAZINE	1.82	lb ai/a	95	0	98	95
11 BICEP LITE II MAGNUM	2.28	lb ai/a	73	0	95	67
12 BICEP II MAGNUM	2.89	lb ai/a	80	0	97	79
LSD (P=.05)			9.9	3.0	5.3	11.9
Standard Deviation			5.9	1.7	3.1	7.0
CV			7.79	449.68	3.54	9.41
Grand Mean			75.22	0.39	89.06	74.56
Bartlett's X2			5.396	0.641	6.504	6.62
P(Bartlett's X2)			0.863	0.423	0.771	0.761
Replicate F			1.556	0.554	1.397	2.330
Replicate Prob(F)			0.2334	0.5824	0.2684	0.1208
Treatment F			56.312	0.889	238.649	39.564
Treatment Prob(F)			0.0001	0.5646	0.0001	0.0001

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CORN PREEMERGENCE X

Trial ID: C4006
Location: LEXINGTON, KY

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

General Trial Information

Study Director: CHARLES H. SLACK
Affiliation: UNIVERSITY OF KENTUCKY
Postal Code: 40546
Investigator: Charles H. Slack

Trial Location

City: LEXINGTON **Trial Status:** COMPLETE
State/Prov.: KENTUCKY
Postal Code: 40511 **Initiation Date:** 4-29-04
Directions:

Objectives:**Conclusions:****Crop Description**

Crop 1: ZEAMX Zea mays **Corn**
Variety: DKC 64-11 RR
BBCH Scale: BCOR **Planting Date:** 4-29-04
Planting Method: ROW **Rate, Unit:** 28000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM **Soil Temperature, Unit:** 62 F
Soil Moisture: SLIGHTLY WET **Emergence Date:** 5-4-04

Pest Description

Pest 1 Type: W **Code:** SETFA **Setaria faberi**
Common Name: Giant Foxtail
Pest 2 Type: W **Code:** ABUTH **Abutilon theophrasti**
Common Name: Velvetleaf

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD
Plot Length, Unit: 44 FT **Tillage Type:** CONVENTIONAL-TILL
Replications: 3 **Study Design:** Randomized Complete Block

Trial Initiation Comments:**Field Prep./Maintenance:****Soil Description**

% Sand: 3 **% OM:** 4 **Texture:** SILT LOAM
% Silt: 63 **pH:** 6.5 **Soil Name:** LANTON
% Clay: 34 **CEC:** 25 **Fert. Level:** EXCELLENT

Moisture Conditions

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

Application Description**A**

Application Date: 4-29-04
Time of Day: 3:00
Application Method: SPRAY
Application Timing: PRE
Application Placement: BROSOI
Air Temperature, Unit: 64 F
% Relative Humidity: 53
Wind Velocity, Unit: 3 MPH
Dew Presence (Y/N): N
Soil Temperature, Unit: 62 F
Soil Moisture: ADEQUATE
% Cloud Cover: 10

Crop Stage At Each Application**A**

Crop 1 Code, BBCH Scale: ZEAMX BCOR
Stage Scale Used: BBCH

Pest Stage At Each Application**A**

Pest 1 Code, Disc., Scale: SETFA W
Pest 2 Code, Disc., Scale: ABUTH W

Application Equipment**A**

Appl. Equipment: ATV
Operating Pressure: 30
Pressure Unit: PSI
Nozzle Type: FLAT FAN
Nozzle Size: 8004 DG
Nozzle Spacing, Unit: 20 IN
Boom Length, Unit: 10 FT
Boom Height, Unit: 19 IN
Ground Speed, Unit: 4 MPH
Carrier: WATER
Spray Volume: 24
Volume Unit: GPA
Propellant: CO2

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NO-TILL CORN EARLY PREPLANT

Trial ID: C4007
Location: LEXINGTON, KY

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

Pest Type	W Weed	W Weed	W Weed
Pest Code	SETFA	CHEAL	AMBTR
Pest Name	Giant foxtail Lambsquarters, commo Giant Ragweed		
Crop Code	ZEAMX		
BBCH Scale	BCOR		
Crop Name	Corn		
Rating Data Type	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt No.	Treatment Name	Rate	Unit	1	2	3	4
1	ROUNDUP WeatherMAX	22	fl oz/a	0	98	96	95
	AMS	3.7	% v/v				
	LIGHTNING	0.056	lb ai/a				
	ACTIVATOR 90	0.25	% v/v				
	AMS	2.5	lb ai/a				
2	ROUNDUP WeatherMAX	22	fl oz/a	0	96	96	93
	VALOR SX	0.064	lb ai/a				
	ACTIVATOR 90	0.25	% v/v				
	AMS	3.7	% v/v				
	LIGHTNING	0.056	lb ai/a				
	ACTIVATOR 90	0.25	% v/v				
	AMS	2.5	lb ai/a				
3	ROUNDUP WeatherMAX	22	fl oz/a	0	98	98	96
	VALOR SX	0.064	lb ai/a				
	DUAL II MAGNUM	0.96	lb ai/a				
	ACTIVATOR 90	0.25	% v/v				
	AMS	3.7	% v/v				
	LIGHTNING	0.056	lb ai/a				
	ACTIVATOR 90	0.25	% v/v				
	AMS	2.5	lb ai/a				
4	AIM	0.008	lb ai/a	0	98	98	98
	WEEDONE LV4	0.5	lb ai/a				
	COC	1	qt/a				
	STEADFAST ATZ	0.78	lb ai/a				
	CALLISTO	0.063	lb ai/a				
	COC	1	qt/a				
	LIQUID N	2	qt/a				
5	AIM	0.008	lb ai/a	0	98	98	98
	ROUNDUP WeatherMAX	0.5	lb ai/a				
	AMS	2.5	lb/a				
	STEADFAST ATZ	0.78	lb ai/a				
	CALLISTO	0.063	lb ai/a				
	COC	1	qt/a				
	LIQUID N	2	qt/a				
6	AIM	0.008	lb ai/a	0	99	98	96
	WEEDONE LV4	0.5	lb ai/a				
	ROUNDUP WeatherMAX	0.5	lb ai/a				
	AMS	2.5	lb/a				
	STEADFAST ATZ	0.78	lb ai/a				
	CALLISTO	0.063	lb ai/a				
	COC	1	qt/a				
	LIQUID N	2	qt/a				
7	EXPERT	3.66	lb ai/a	0	96	96	95
8	EXPERT	3.66	lb ai/a	0	98	98	98
	SPIRIT	0.036	lb ai/a				
	COC	1	qt/a				
9	BICEP II MAGNUM	2.89	lb ai/a	0	96	96	97
	GRAMOXONE MAX	1	lb ai/a				
	ACTIVATOR 90	0.25	% v/v				
10	BICEP II MAGNUM	2.89	lb ai/a	0	98	98	98
	GRAMOXONE MAX	1	lb ai/a				
	ACTIVATOR 90	0.25	% v/v				
	LUMAX	1.77	lb ai/a				

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Pest Type		W Weed		W Weed		W Weed
Pest Code		SETFA		CHEAL		AMBTR
Pest Name		Giant foxtail	Lambsquarters,	commo	Giant	Ragweed
Crop Code	ZEAMX					
BBCH Scale	BCOR					
Crop Name	Corn					
Rating Data Type	INJURY	CONTROL		CONTROL		CONTROL
Rating Unit	PERCENT	PERCENT		PERCENT		PERCENT
Trt-Eval Interval	2 WEEK	2 WEEK		2 WEEK		2 WEEK
ARM Action Codes	P	P		P		P
Number of Decimals	0	0		0		0

Trt Treatment		Rate					
No.	Name	Rate	Unit	1	2	3	4
11	LUMAX	1.48	lb ai/a	0	98	98	96
	GRAMOXONE MAX	1	lb ai/a				
	ACTIVATOR 90	0.25	% v/v				
	LUMAX	0.985	lb ai/a				
12	CHECK UNTREATED			0	0	0	0
	LSD (P=.05)			0.0	2.2	2.8	4.2
	Standard Deviation			0.0	1.3	1.7	2.5
	CV			0.0	1.44	1.87	2.84
	Grand Mean			0.0	89.31	89.08	88.31
	Bartlett's X2			0.0	0.0	0.0	7.364
	P(Bartlett's X2)			.	1.00	1.00	0.599
	Replicate F			0.000	21.195	10.043	7.116
	Replicate Prob(F)			1.0000	0.0001	0.0008	0.0041
	Treatment F			0.000	1433.468	847.351	369.703
	Treatment Prob(F)			1.0000	0.0001	0.0001	0.0001

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Pest Type			W Weed		W Weed		W Weed
Pest Code			ERICA		SETFA		CHEAL
Pest Name			Horseweed, Canada		Giant foxtail		Lambsquarters, commo
Crop Code					ZEAMX		
BBCH Scale					BCOR		
Crop Name					Corn		
Rating Data Type			CONTROL	INJURY	CONTROL		CONTROL
Rating Unit			PERCENT	PERCENT	PERCENT		PERCENT
Trt-Eval Interval			2 WEEK	4 WEEK	4 WEEK		4 WEEK
ARM Action Codes			P	P	P		P
Number of Decimals			0	0	0		0
Trt Treatment	Rate	Rate					
No. Name	Rate	Unit	5	6	7		8
1 ROUNDUP WeatherMAX	22	fl oz/a					
AMS	3.7	% v/v	95	0	98		96
LIGHTNING	0.056	lb ai/a					
ACTIVATOR 90	0.25	% v/v					
AMS	2.5	lb ai/a					
2 ROUNDUP WeatherMAX	22	fl oz/a	96	0	93		96
VALOR SX	0.064	lb ai/a					
ACTIVATOR 90	0.25	% v/v					
AMS	3.7	% v/v					
LIGHTNING	0.056	lb ai/a					
ACTIVATOR 90	0.25	% v/v					
AMS	2.5	lb ai/a					
3 ROUNDUP WeatherMAX	22	fl oz/a	96	0	98		98
VALOR SX	0.064	lb ai/a					
DUAL II MAGNUM	0.96	lb ai/a					
ACTIVATOR 90	0.25	% v/v					
AMS	3.7	% v/v					
LIGHTNING	0.056	lb ai/a					
ACTIVATOR 90	0.25	% v/v					
AMS	2.5	lb ai/a					
4 AIM	0.008	lb ai/a	98	0	98		98
WEEDONE LV4	0.5	lb ai/a					
COC	1	qt/a					
STEADFAST ATZ	0.78	lb ai/a					
CALLISTO	0.063	lb ai/a					
COC	1	qt/a					
LIQUID N	2	qt/a					
5 AIM	0.008	lb ai/a	96	0	98		98
ROUNDUP WeatherMAX	0.5	lb ai/a					
AMS	2.5	lb/a					
STEADFAST ATZ	0.78	lb ai/a					
CALLISTO	0.063	lb ai/a					
COC	1	qt/a					
LIQUID N	2	qt/a					
6 AIM	0.008	lb ai/a	98	0	99		98
WEEDONE LV4	0.5	lb ai/a					
ROUNDUP WeatherMAX	0.5	lb ai/a					
AMS	2.5	lb/a					
STEADFAST ATZ	0.78	lb ai/a					
CALLISTO	0.063	lb ai/a					
COC	1	qt/a					
LIQUID N	2	qt/a					
7 EXPERT	3.66	lb ai/a	96	0	93		96
8 EXPERT	3.66	lb ai/a	98	0	96		98
SPIRIT	0.036	lb ai/a					
COC	1	qt/a					
9 BICEP II MAGNUM	2.89	lb ai/a	96	0	95		96
GRAMOXONE MAX	1	lb ai/a					
ACTIVATOR 90	0.25	% v/v					
10 BICEP II MAGNUM	2.89	lb ai/a	98	0	96		98
GRAMOXONE MAX	1	lb ai/a					
ACTIVATOR 90	0.25	% v/v					
LUMAX	1.77	lb ai/a					
11 LUMAX	1.48	lb ai/a	98	0	96		98
GRAMOXONE MAX	1	lb ai/a					
ACTIVATOR 90	0.25	% v/v					
LUMAX	0.985	lb ai/a					

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Trt Treatment	Rate	Unit	5	6	7	8
12 CHECK UNTREATED			0	0	0	0
LSD (P=.05)			2.6	0.0	4.1	2.8
Standard Deviation			1.5	0.0	2.4	1.7
CV			1.71	0.0	2.77	1.87
Grand Mean			88.75	0.0	88.22	89.08
Bartlett's X2			0.0	0.0	4.999	0.0
P(Bartlett's X2)			1.00	.	0.834	1.00
Replicate F			12.158	0.000	14.910	10.043
Replicate Prob(F)			0.0003	1.0000	0.0001	0.0008
Treatment F			1018.503	0.000	388.876	847.351
Treatment Prob(F)			0.0001	1.0000	0.0001	0.0001

Pest Type	W Weed	W Weed	W Weed
Pest Code	ERICA	SETFA	CHEAL
Pest Name	Horseweed, Canada	Giant foxtail	Lambsquarters, commo
Crop Code		ZEAMX	
BBCH Scale		BCOR	
Crop Name		Corn	
Rating Data Type	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEK	4 WEEK	4 WEEK
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

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Pest Type		W Weed	W Weed	W Weed	
Pest Code		AMBTR	ERICA	SETFA	
Pest Name		Giant Ragweed	Horseweed, Canada	Giant foxtail	
Crop Code				ZEAMX	
BBCH Scale				BCOR	
Crop Name				Corn	
Rating Data Type		CONTROL	CONTROL	INJURY	
Rating Unit		PERCENT	PERCENT	PERCENT	
Trt-Eval Interval		4 WEEK	4 WEEK	8 WEEK	
ARM Action Codes		P	P	P	
Number of Decimals		0	0	0	
Trt Treatment	Rate	Rate			
No. Name	Rate Unit	9	10	11	
		12			
1 ROUNDUP WeatherMAX	22 fl oz/a	87	95	0	98
AMS	3.7 % v/v				
LIGHTNING	0.056 lb ai/a				
ACTIVATOR 90	0.25 % v/v				
AMS	2.5 lb ai/a				
2 ROUNDUP WeatherMAX	22 fl oz/a	90	96	0	93
VALOR SX	0.064 lb ai/a				
ACTIVATOR 90	0.25 % v/v				
AMS	3.7 % v/v				
LIGHTNING	0.056 lb ai/a				
ACTIVATOR 90	0.25 % v/v				
AMS	2.5 lb ai/a				
3 ROUNDUP WeatherMAX	22 fl oz/a	91	96	0	98
VALOR SX	0.064 lb ai/a				
DUAL II MAGNUM	0.96 lb ai/a				
ACTIVATOR 90	0.25 % v/v				
AMS	3.7 % v/v				
LIGHTNING	0.056 lb ai/a				
ACTIVATOR 90	0.25 % v/v				
AMS	2.5 lb ai/a				
4 AIM	0.008 lb ai/a	95	98	0	98
WEEDONE LV4	0.5 lb ai/a				
COC	1 qt/a				
STEADFAST ATZ	0.78 lb ai/a				
CALLISTO	0.063 lb ai/a				
COC	1 qt/a				
LIQUID N	2 qt/a				
5 AIM	0.008 lb ai/a	96	96	0	98
ROUNDUP WeatherMAX	0.5 lb ai/a				
AMS	2.5 lb/a				
STEADFAST ATZ	0.78 lb ai/a				
CALLISTO	0.063 lb ai/a				
COC	1 qt/a				
LIQUID N	2 qt/a				
6 AIM	0.008 lb ai/a	92	98	0	99
WEEDONE LV4	0.5 lb ai/a				
ROUNDUP WeatherMAX	0.5 lb ai/a				
AMS	2.5 lb/a				
STEADFAST ATZ	0.78 lb ai/a				
CALLISTO	0.063 lb ai/a				
COC	1 qt/a				
LIQUID N	2 qt/a				
7 EXPERT	3.66 lb ai/a	85	96	0	93
8 EXPERT	3.66 lb ai/a	93	98	0	96
SPIRIT	0.036 lb ai/a				
COC	1 qt/a				
9 BICEP II MAGNUM	2.89 lb ai/a	94	96	0	95
GRAMOXONE MAX	1 lb ai/a				
ACTIVATOR 90	0.25 % v/v				
10 BICEP II MAGNUM	2.89 lb ai/a	95	98	0	96
GRAMOXONE MAX	1 lb ai/a				
ACTIVATOR 90	0.25 % v/v				
LUMAX	1.77 lb ai/a				
11 LUMAX	1.48 lb ai/a	90	98	0	96
GRAMOXONE MAX	1 lb ai/a				
ACTIVATOR 90	0.25 % v/v				
LUMAX	0.985 lb ai/a				

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	ERICA	SETFA	
Pest Name	Giant Ragweed	Horseweed, Canada	Giant foxtail	
Crop Code			ZEAMX	
BBCH Scale			BCOR	
Crop Name			Corn	
Rating Data Type	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	4 WEEK	4 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0
Trt Treatment	Rate	Rate	Rate	Rate
No. Name	Rate	Unit	9	10
			11	12
12 CHECK UNTREATED			0	0
LSD (P=.05)			7.2	2.6
Standard Deviation			4.3	1.5
CV			5.07	1.71
Grand Mean			83.94	88.75
Bartlett's X2			2.895	0.0
P(Bartlett's X2)			0.968	1.00
Replicate F			2.975	12.158
Replicate Prob(F)			0.0718	0.0003
Treatment F			117.626	1018.503
Treatment Prob(F)			0.0001	0.0001

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Pest Type	W Weed	W Weed	W Weed
Pest Code	CHEAL	AMBTR	ERICA
Pest Name	Lambsquarters, commo Giant Ragweed Horseweed, Canada		
Crop Code			
BBCH Scale			
Crop Name			
Rating Data Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt Treatment	Rate	Rate Unit	13	14	15
No. Name	Rate	Unit			
1 ROUNDUP WeatherMAX	22	fl oz/a			
AMS	3.7	% v/v			
LIGHTNING	0.056	lb ai/a			
ACTIVATOR 90	0.25	% v/v			
AMS	2.5	lb ai/a			
2 ROUNDUP WeatherMAX	22	fl oz/a	96	87	95
VALOR SX	0.064	lb ai/a			
ACTIVATOR 90	0.25	% v/v			
AMS	3.7	% v/v			
LIGHTNING	0.056	lb ai/a			
ACTIVATOR 90	0.25	% v/v			
AMS	2.5	lb ai/a			
3 ROUNDUP WeatherMAX	22	fl oz/a	96	90	96
VALOR SX	0.064	lb ai/a			
DUAL II MAGNUM	0.96	lb ai/a			
ACTIVATOR 90	0.25	% v/v			
AMS	3.7	% v/v			
LIGHTNING	0.056	lb ai/a			
ACTIVATOR 90	0.25	% v/v			
AMS	2.5	lb ai/a			
4 AIM	0.008	lb ai/a	98	91	96
WEEDONE LV4	0.5	lb ai/a			
COC	1	qt/a			
STEADFAST ATZ	0.78	lb ai/a			
CALLISTO	0.063	lb ai/a			
COC	1	qt/a			
LIQUID N	2	qt/a			
5 AIM	0.008	lb ai/a	98	95	98
ROUNDUP WeatherMAX	0.5	lb ai/a			
AMS	2.5	lb/a			
STEADFAST ATZ	0.78	lb ai/a			
CALLISTO	0.063	lb ai/a			
COC	1	qt/a			
LIQUID N	2	qt/a			
6 AIM	0.008	lb ai/a	98	96	96
WEEDONE LV4	0.5	lb ai/a			
ROUNDUP WeatherMAX	0.5	lb ai/a			
AMS	2.5	lb/a			
STEADFAST ATZ	0.78	lb ai/a			
CALLISTO	0.063	lb ai/a			
COC	1	qt/a			
LIQUID N	2	qt/a			
7 EXPERT	3.66	lb ai/a	98	92	98
8 EXPERT	3.66	lb ai/a	96	85	96
SPIRIT	0.036	lb ai/a	98	93	98
COC	1	qt/a			
9 BICEP II MAGNUM	2.89	lb ai/a	96	94	96
GRAMOXONE MAX	1	lb ai/a			
ACTIVATOR 90	0.25	% v/v			
10 BICEP II MAGNUM	2.89	lb ai/a	98	95	98
GRAMOXONE MAX	1	lb ai/a			
ACTIVATOR 90	0.25	% v/v			
LUMAX	1.77	lb ai/a			
11 LUMAX	1.48	lb ai/a	98	90	98
GRAMOXONE MAX	1	lb ai/a			
ACTIVATOR 90	0.25	% v/v			
LUMAX	0.985	lb ai/a			

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 Weed Science Field Research

Pest Type	W Weed	W Weed	W Weed
Pest Code	CHEAL	AMBTR	ERICA
Pest Name	Lambsquarters, commo	Giant Ragweed	Horseweed, Canada
Crop Code			
BBCH Scale			
Crop Name			
Rating Data Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P
Number of Decimals	0	0	0
Trt Treatment			
No. Name	Rate	Unit	
	13	14	15
12 CHECK UNTREATED	0	0	0
LSD (P=.05)	2.8	7.2	2.6
Standard Deviation	1.7	4.3	1.5
CV	1.87	5.07	1.71
Grand Mean	89.08	83.94	88.75
Bartlett's X2	0.0	2.895	0.0
P(Bartlett's X2)	1.00	0.968	1.00
Replicate F	10.043	2.975	12.158
Replicate Prob(F)	0.0008	0.0718	0.0003
Treatment F	847.351	117.626	1018.503
Treatment Prob(F)	0.0001	0.0001	0.0001

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Weed Science Field Research

NO-TILL CORN EARLY PREPLANT

Trial ID: C4007
Location: LEXINGTON, KY

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

General Trial Information

Study Director: CHARLES H. SLACK
Affiliation: UNIVERSITY OF KENTUCKY
Postal Code: 40546
Investigator: Charles H. Slack

Trial Location

City: LEXINGTON **Trial Status:** COMPLETE
State/Prov.: KENTUCKY
Postal Code: 40511 **Initiation Date:** 4-15-04
Directions:

Objectives:

Conclusions:

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: GARST 8541 IT
BBCH Scale: BCOR **Planting Date:** 4-29-04
Planting Method: ROW **Rate, Unit:** 28000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM/TRASHY **Soil Temperature, Unit:** 58 F
Soil Moisture: SLIGHTLY WET **Emergence Date:** 5-4-04

Pest Description

Pest 1 Type: W **Code:** SETFA *Setaria faberi*
Common Name: Giant Foxtail
Pest 2 Type: W **Code:** CHEAL *Chenopodium album*
Common Name: Lambsquarters, common
Pest 3 Type: W **Code:** AMBTR *Ambrosia trifida*
Common Name: Giant Ragweed
Pest 4 Type: W **Code:** ERICA *Erigeron canadensis*
Common Name: Horseweed, Canada

Site and Design

Plot Width, Unit: 5 FT **Site Type:** FIELD
Plot Length, Unit: 44 FT **Tillage Type:** NO-TILL
Replications: 3 **Study Design:** Randomized Complete Block

Trial Initiation Comments:

Field Prep./Maintenance:

Soil Description

% Sand: 6 **% OM:** 2.6 **Texture:** SILT LOAM
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY
% Clay: 32 **CEC:** 17 **Fert. Level:** EXCELLENT

Moisture Conditions

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

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Weed Science Field Research

Application Description

	A		B
Application Date:	4-15-04		5-21-04
Time of Day:	10:00		2:00
Application Method:	SPRAY		SPRAY
Application Timing:	2WK		MP
Application Placement:	BROFOL		BROFOL
Air Temperature, Unit:	54 F		76 F
% Relative Humidity:	50		81
Wind Velocity, Unit:	2 MPH		3 MPH
Dew Presence (Y/N):	N		N
Soil Temperature, Unit:	52 F		70 F
Soil Moisture:	ADEQUATE		ADEQUATE
% Cloud Cover:	10		10

Crop Stage At Each Application

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

Pest Stage At Each Application

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

Application Equipment

	A		B
Appl. Equipment:	ATV		BACKPACK
Operating Pressure:	30		30
Pressure Unit:	PSI		PSI
Nozzle Type:	FLAT FAN		FLAT FAN
Nozzle Size:	8004 DG		8004 DG
Nozzle Spacing, Unit:	20 IN		20 IN
Boom Length, Unit:	5 FT		5 FT
Boom Height, Unit:	19 IN		25 IN
Ground Speed, Unit:	4 MPH		3.5 MPH
Carrier:	WATER		WATER
Spray Volume:	24		24
Volume Unit:	GPA		GPA
Propellant:	CO2		CO2

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Weed Science Field Research

CORN PREEMERGENCE VI

Trial ID: C4008
Location: LEXINGTON, KY

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

Pest Type		W Weed		W Weed		W Weed
Pest Code		SETFA		CHEAL		AMBTR
Pest Name		Giant foxtail Lambsquarters, commo			Giant Ragweed	
Crop Code	ZEAMX					ZEAMX
BBCH Scale	BCOR					BCOR
Crop Name	Corn					Corn
Rating Data Type	INJURY	PERCENT		PERCENT	PERCENT	INJURY
Rating Unit	PERCENT	CONTROL		CONTROL	CONTROL	PERCENT
Trt-Eval Interval	2 WEEK	2 WEEK		2 WEEK	2 WEEK	4 WEEK
ARM Action Codes	P	P		P	P	P
Number of Decimals	0	0		0	0	0

Trt Treatment	Rate	Rate	1	2	3	4	5
No. Name	Rate	Unit					
1 CHECK UNTREATED			0	0	0	0	0
2 DUAL II MAGNUM	0.64	lb ai/a	0	96	73	35	0
3 DUAL II MAGNUM	0.955	lb ai/a	0	96	70	17	0
4 DUAL II MAGNUM	1.433	lb ai/a	0	98	67	42	0
5 DUAL II MAGNUM	1.91	lb ai/a	0	97	65	27	0
6 MANA-282	0.985	lb ai/a	0	98	63	27	0
7 MANA-282	1.48	lb ai/a	0	97	62	17	0
8 MANA-282	1.97	lb ai/a	0	97	57	13	0
9 MANA-282	2.22	lb ai/a	0	96	55	27	0
10 MANA-282	2.96	lb ai/a	0	98	75	50	0
11 BICEP II MAGNUM	1.78	lb ai/a	0	97	97	88	0
12 BICEP II MAGNUM	2.68	lb ai/a	0	98	97	82	0
13 BICEP II MAGNUM	3.56	lb ai/a	0	98	98	98	0
14 MANA-283	1.43	lb ai/a	0	93	97	90	0
AATREX	0.35	lb ai/a					
15 MANA-283	2.14	lb ai/a	0	96	98	97	0
AATREX	0.53	lb ai/a					
16 MANA-283	2.86	lb ai/a	0	95	98	98	0
AATREX	0.7	lb ai/a					
17 MANA-283	3.22	lb ai/a	0	98	98	95	0
18 MANA-283	4.29	lb ai/a	0	98	98	98	0
19 PARALLEL II	0.975	lb ai/a	0	91	67	13	0
20 PARALLEL II	1.46	lb ai/a	0	97	60	30	0
21 PARALLEL II	1.95	lb ai/a	0	97	70	13	0
22 PARALLEL II	2.19	lb ai/a	0	97	73	27	0
23 PARALLEL II	2.92	lb ai/a	0	98	78	27	0
24 CHECK UNTREATED			0	0	0	0	0
LSD (P=.05)			0.0	3.8	25.2	23.8	0.0
Standard Deviation			0.0	2.3	15.3	14.4	0.0
CV			0.0	2.62	21.37	31.19	0.0
Grand Mean			0.0	88.79	71.56	46.29	0.0
Bartlett's X2			0.0	48.699	85.389	63.423	0.0
P(Bartlett's X2)			.	0.001*	0.001*	0.001*	.
Replicate F			0.000	16.600	15.387	6.553	0.000
Replicate Prob(F)			1.0000	0.0001	0.0001	0.0031	1.0000
Treatment F			0.000	414.990	9.336	18.597	0.000
Treatment Prob(F)			1.0000	0.0001	0.0001	0.0001	1.0000

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Weed Science Field Research

Pest Type	W Weed	D Disease	W Weed	
Pest Code	SETFA	CHEAL	AMBTR	ZEAMX
Pest Name	Giant foxtail Lambsquarters, commo			Giant Ragweed
Crop Code				ZEAMX
BBCH Scale				BCOR
Crop Name				Corn
Rating Data Type	PERCENT	PERCENT	PERCENT	INJURY
Rating Unit	CONTROL	CONTROL	CONTROL	PERCENT
Trt-Eval Interval	4 WEEK	4 WEEK	4 WEEK	8 WEEK
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0
Trt Treatment	Rate			
No. Name	Rate Unit	6	7	8
				9
1 CHECK UNTREATED		0	0	0
2 DUAL II MAGNUM	0.64 lb ai/a	90	55	28
3 DUAL II MAGNUM	0.955 lb ai/a	91	50	33
4 DUAL II MAGNUM	1.433 lb ai/a	96	40	28
5 DUAL II MAGNUM	1.91 lb ai/a	96	65	23
6 MANA-282	0.985 lb ai/a	87	30	17
7 MANA-282	1.48 lb ai/a	93	58	17
8 MANA-282	1.97 lb ai/a	96	53	13
9 MANA-282	2.22 lb ai/a	96	52	23
10 MANA-282	2.96 lb ai/a	98	55	43
11 BICEP II MAGNUM	1.78 lb ai/a	88	93	80
12 BICEP II MAGNUM	2.68 lb ai/a	92	96	72
13 BICEP II MAGNUM	3.56 lb ai/a	95	97	94
14 MANA-283	1.43 lb ai/a	77	95	82
AATREX	0.35 lb ai/a			
15 MANA-283	2.14 lb ai/a	87	97	88
AATREX	0.53 lb ai/a			
16 MANA-283	2.86 lb ai/a	88	97	94
AATREX	0.7 lb ai/a			
17 MANA-283	3.22 lb ai/a	96	96	90
18 MANA-283	4.29 lb ai/a	97	98	95
19 PARALLEL II	0.975 lb ai/a	91	57	13
20 PARALLEL II	1.46 lb ai/a	95	57	30
21 PARALLEL II	1.95 lb ai/a	97	50	13
22 PARALLEL II	2.19 lb ai/a	96	55	23
23 PARALLEL II	2.92 lb ai/a	98	72	20
24 CHECK UNTREATED		0	0	0
LSD (P=.05)		7.1	32.0	24.5
Standard Deviation		4.3	19.4	14.8
CV		5.1	30.64	34.83
Grand Mean		84.99	63.31	42.58
Bartlett's X2		24.102	65.076	33.891
P(Bartlett's X2)		0.238	0.001*	0.037*
Replicate F		8.989	18.470	9.355
Replicate Prob(F)		0.0005	0.0001	0.0004
Treatment F		113.474	6.730	15.435
Treatment Prob(F)		0.0001	0.0001	0.0001

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Pest Type	W Weed
Pest Code	SETFA
Pest Name	Giant foxtail
Crop Code	
BBCH Scale	
Crop Name	
Rating Data Type	PERCENT
Rating Unit	CONTROL
Trt-Eval Interval	8 WEEK
ARM Action Codes	P
Number of Decimals	0

Trt Treatment	Rate			
No. Name	Rate	Unit		10
1 CHECK UNTREATED				0
2 DUAL II MAGNUM	0.64	lb ai/a		62
3 DUAL II MAGNUM	0.955	lb ai/a		67
4 DUAL II MAGNUM	1.433	lb ai/a		81
5 DUAL II MAGNUM	1.91	lb ai/a		91
6 MANA-282	0.985	lb ai/a		68
7 MANA-282	1.48	lb ai/a		88
8 MANA-282	1.97	lb ai/a		90
9 MANA-282	2.22	lb ai/a		90
10 MANA-282	2.96	lb ai/a		93
11 BICEP II MAGNUM	1.78	lb ai/a		85
12 BICEP II MAGNUM	2.68	lb ai/a		85
13 BICEP II MAGNUM	3.56	lb ai/a		93
14 MANA-283	1.43	lb ai/a		65
AATREX	0.35	lb ai/a		
15 MANA-283	2.14	lb ai/a		82
AATREX	0.53	lb ai/a		
16 MANA-283	2.86	lb ai/a		83
AATREX	0.7	lb ai/a		
17 MANA-283	3.22	lb ai/a		93
18 MANA-283	4.29	lb ai/a		93
19 PARALLEL II	0.975	lb ai/a		77
20 PARALLEL II	1.46	lb ai/a		89
21 PARALLEL II	1.95	lb ai/a		91
22 PARALLEL II	2.19	lb ai/a		95
23 PARALLEL II	2.92	lb ai/a		96
24 CHECK UNTREATED				0
LSD (P=.05)				14.0
Standard Deviation				8.5
CV				10.98
Grand Mean				77.38
Bartlett's X2				20.961
P(Bartlett's X2)				0.461
Replicate F				2.794
Replicate Prob(F)				0.0716
Treatment F				27.743
Treatment Prob(F)				0.0001

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Weed Science Field Research

CORN PREEMERGENCE VI

Trial ID: C4008
Location: LEXINGTON, KY

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

General Trial Information

Study Director: CHARLES H. SLACK
Affiliation: UNIVERSITY OF KENTUCKY
Postal Code: 40546
Investigator: Charles H. Slack

Trial Location

City: LEXINGTON **Trial Status:** COMPLETE
State/Prov.: KENTUCKY
Postal Code: 40511 **Initiation Date:** 5-4-04
Directions:

Objectives:**Conclusions:****Crop Description**

Crop 1: ZEAMX Zea mays Corn
Variety: GARST 8352 RR
BBCH Scale: BCOR **Planting Date:** 5-4-04
Planting Method: ROW **Rate, Unit:** 28000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM **Soil Temperature, Unit:** 57 F
Soil Moisture: SLIGHTLY WET **Emergence Date:** 5-9-04

Pest Description

Pest 1 Type: W **Code:** SETFA Setaria faberi
Common Name: Giant Foxtail
Pest 2 Type: W **Code:** CHEAL Chenopodium album
Common Name: Lambsquarters, common
Pest 3 Type: W **Code:** AMBTR Ambrosia trifida
Common Name: Giant Ragweed

Site and Design

Plot Width, Unit: 5 FT **Site Type:** FIELD
Plot Length, Unit: 44 FT **Tillage Type:** CONVENTIONAL-TILL
Replications: 3 **Study Design:** Randomized Complete Block

Trial Initiation Comments:**Field Prep./Maintenance:****Soil Description**

% Sand: 6 **% OM:** 2.6 **Texture:** SILT LOAM
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY
% Clay: 32 **CEC:** 17 **Fert. Level:** EXCELLENT

Moisture Conditions

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

Application Description**A**

Application Date: 5-4-04
Time of Day: 1:00
Application Method: SPRAY
Application Timing: PRE
Application Placement: BROS0I
Air Temperature, Unit: 49 F
% Relative Humidity: 70
Wind Velocity, Unit: 4 MPH
Dew Presence (Y/N): N
Soil Temperature, Unit: 57 F
Soil Moisture: ADEQUATE
% Cloud Cover: 20

Crop Stage At Each Application**A**

Crop 1 Code, BBCH Scale: ZEAMX BCOR
Stage Scale Used: BBCH

Pest Stage At Each Application**A**

Pest 1 Code, Disc., Scale: SETFA W
Pest 2 Code, Disc., Scale: CHEAL W
Pest 3 Code, Disc., Scale: AMBTR W

Application Equipment**A**

Appl. Equipment: ATV
Operating Pressure: 30
Pressure Unit: PSI
Nozzle Type: FLAT FAN
Nozzle Size: 8004 DG
Nozzle Spacing, Unit: 20 IN
Boom Length, Unit: 5 FT
Boom Height, Unit: 19 IN
Ground Speed, Unit: 4 MPH
Carrier: WATER
Spray Volume: 24
Volume Unit: GPA
Propellant: CO2

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Weed Science Field Research

CORN PREEMERGENCE IV

Trial ID: C4009
Location: LEXINGTON, KY

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

Pest Type		W Weed	W Weed	W Weed
Pest Code		SETFA	XANST	CHEAL
Pest Name		Giant foxtail	Common cocklebur	Lambsquarters, commo
Crop Code	ZEAMX			ZEAMX
BBCH Scale	BCOR			BCOR
Crop Name	Corn			Corn
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT PERCENT
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK 4 WEEK
ARM Action Codes	P	P	P	P P
Number of Decimals	0	0	0	0 0

Trt Treatment	Rate					
No. Name	Rate Unit	1	2	3	4	5
1 CHECK UNTREATED		0	0	0	0	0
2 BICEP II MAGNUM	1.78 lb ai/a	0	97	50	93	0
3 BICEP II MAGNUM	2.68 lb ai/a	0	98	75	95	0
4 BICEP II MAGNUM	3.03 lb ai/a	0	98	72	95	0
5 BICEP II MAGNUM	3.56 lb ai/a	0	98	85	95	0
6 MANA-283	1.43 lb ai/a	0	97	83	96	0
AATREX	0.35 lb ai/a					
7 MANA-283	2.14 lb ai/a	0	98	85	95	0
AATREX	0.54 lb ai/a					
8 MANA-283	2.43 lb ai/a	0	98	83	95	0
AATREX	0.6 lb ai/a					
9 MANA-283	2.86 lb ai/a	0	98	95	94	0
AATREX	0.7 lb ai/a					
10 MANA-283	3.22 lb ai/a	0	98	78	95	0
11 MANA-283	3.66 lb ai/a	0	98	88	97	0
12 MANA-283	4.29 lb ai/a	0	98	83	95	0
13 PARALLEL II	0.78 lb ai/a	0	98	83	95	0
AATREX	1 lb ai/a					
14 PARALLEL II	1.17 lb ai/a	0	98	83	96	0
AATREX	1.51 lb ai/a					
15 PARALLEL II	1.56 lb ai/a	0	98	85	95	0
AATREX	2 lb ai/a					
16 PARALLEL II	1.76 lb ai/a	0	98	78	95	0
AATREX	1.46 lb ai/a					
17 PARALLEL II	1.96 lb ai/a	0	98	78	96	0
AATREX	1.66 lb ai/a					
18 PARALLEL II	2.34 lb ai/a	0	98	87	96	0
AATREX	1.95 lb ai/a					
19 MANA-283	2.14 lb ai/a	0	98	96	98	0
CALLISTO	0.15 lb ai/a					
AATREX	0.54 lb ai/a					
20 MANA-283	2.68 lb ai/a	0	98	97	98	0
CALLISTO	0.15 lb ai/a					
AATREX	0.78 lb ai/a					
21 MANA-283	3.22 lb ai/a	0	98	94	97	0
CALLISTO	0.15 lb ai/a					
22 MANA-283	3.59 lb ai/a	0	98	95	97	0
CALLISTO	0.15 lb ai/a					
23 MANA-283	4.29 lb ai/a	0	98	94	98	0
CALLISTO	0.15 lb ai/a					
24 LUMAX	2.46 lb ai/a	0	98	95	97	0
25 LUMAX	2.95 lb ai/a	0	98	97	97	0
26 CHECK UNTREATED		0	0	0	0	0
LSD (P=.05)		0.0	0.8	14.8	2.7	0.0
Standard Deviation		0.0	0.5	9.0	1.7	0.0
CV		0.0	0.54	11.43	1.87	0.0
Grand Mean		0.0	90.38	78.56	88.5	0.0
Bartlett's X2		0.0	0.0	47.735	7.071	0.0
P(Bartlett's X2)		.	1.00	0.001*	0.793	.

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Trt Treatment	Rate	1	2	3	4	5
No. Name	Rate Unit					
Replicate F		0.000	0.490	0.430	1.793	0.000
Replicate Prob(F)		1.0000	0.6154	0.6530	0.1770	1.0000
Treatment F		0.000	9024.629	23.707	748.987	0.000
Treatment Prob(F)		1.0000	0.0001	0.0001	0.0001	1.0000

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Pest Type		W Weed	W Weed	W Weed	
Pest Code		SETFA	XANST	CHEAL	
Pest Name		Giant foxtail	Common cocklebur	Lambsquarters, commo	
Crop Code					ZEAMX
BBCH Scale					BCOR
Crop Name					Corn
Rating Data Type		CONTROL	CONTROL	CONTROL	INJURY
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval		4 WEEK	4 WEEK	4 WEEK	8 WEEK
ARM Action Codes		P	P	P	P
Number of Decimals		0	0	0	0
Trt Treatment	Rate				
No. Name	Rate Unit	6	7	8	9
1 CHECK UNTREATED		0	0	0	0
2 BICEP II MAGNUM	1.78 lb ai/a	97	37	93	0
3 BICEP II MAGNUM	2.68 lb ai/a	98	57	95	0
4 BICEP II MAGNUM	3.03 lb ai/a	98	53	95	0
5 BICEP II MAGNUM	3.56 lb ai/a	98	73	94	0
6 MANA-283	1.43 lb ai/a	94	55	95	0
AATREX	0.35 lb ai/a				
7 MANA-283	2.14 lb ai/a	98	75	95	0
AATREX	0.54 lb ai/a				
8 MANA-283	2.43 lb ai/a	97	73	95	0
AATREX	0.6 lb ai/a				
9 MANA-283	2.86 lb ai/a	98	82	96	0
AATREX	0.7 lb ai/a				
10 MANA-283	3.22 lb ai/a	98	63	95	0
11 MANA-283	3.66 lb ai/a	98	78	96	0
12 MANA-283	4.29 lb ai/a	98	68	95	0
13 PARALLEL II	0.78 lb ai/a	98	72	95	0
AATREX	1 lb ai/a				
14 PARALLEL II	1.17 lb ai/a	98	73	96	0
AATREX	1.51 lb ai/a				
15 PARALLEL II	1.56 lb ai/a	98	73	95	0
AATREX	2 lb ai/a				
16 PARALLEL II	1.76 lb ai/a	98	67	95	0
AATREX	1.46 lb ai/a				
17 PARALLEL II	1.96 lb ai/a	98	67	96	0
AATREX	1.66 lb ai/a				
18 PARALLEL II	2.34 lb ai/a	98	75	96	0
AATREX	1.95 lb ai/a				
19 MANA-283	2.14 lb ai/a	98	93	98	0
CALLISTO	0.15 lb ai/a				
AATREX	0.54 lb ai/a				
20 MANA-283	2.68 lb ai/a	98	93	98	0
CALLISTO	0.15 lb ai/a				
AATREX	0.78 lb ai/a				
21 MANA-283	3.22 lb ai/a	98	88	97	0
CALLISTO	0.15 lb ai/a				
22 MANA-283	3.59 lb ai/a	98	90	97	0
CALLISTO	0.15 lb ai/a				
23 MANA-283	4.29 lb ai/a	98	90	98	0
CALLISTO	0.15 lb ai/a				
24 LUMAX	2.46 lb ai/a	98	90	97	0
25 LUMAX	2.95 lb ai/a	98	92	97	0
26 CHECK UNTREATED		0	0	0	0
LSD (P=.05)		1.5	14.2	2.3	0.0
Standard Deviation		0.9	8.6	1.4	0.0
CV		1.03	12.59	1.59	0.0
Grand Mean		90.24	68.35	88.45	0.0
Bartlett's X2		2.029	23.181	4.141	0.0
P(Bartlett's X2)		0.363	0.45	0.941	.
Replicate F		0.954	1.017	1.257	0.000
Replicate Prob(F)		0.3923	0.3691	0.2932	1.0000
Treatment F		2462.611	24.195	1035.852	0.000
Treatment Prob(F)		0.0001	0.0001	0.0001	1.0000

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Pest Type	W Weed	W Weed	W Weed
Pest Code	SETFA	XANST	CHEAL
Pest Name	Giant foxtail	Common cocklebur	Lambsquarters, commo
Crop Code			
BBCH Scale			
Crop Name			
Rating Data Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt Treatment	Rate			
No. Name	Rate Unit	10	11	12
1 CHECK UNTREATED		0	0	0
2 BICEP II MAGNUM	1.78 lb ai/a	97	20	90
3 BICEP II MAGNUM	2.68 lb ai/a	98	40	90
4 BICEP II MAGNUM	3.03 lb ai/a	98	37	92
5 BICEP II MAGNUM	3.56 lb ai/a	98	50	93
6 MANA-283	1.43 lb ai/a	94	35	93
AATREX	0.35 lb ai/a			
7 MANA-283	2.14 lb ai/a	98	68	92
AATREX	0.54 lb ai/a			
8 MANA-283	2.43 lb ai/a	97	62	93
AATREX	0.6 lb ai/a			
9 MANA-283	2.86 lb ai/a	98	68	93
AATREX	0.7 lb ai/a			
10 MANA-283	3.22 lb ai/a	98	60	95
11 MANA-283	3.66 lb ai/a	98	78	96
12 MANA-283	4.29 lb ai/a	98	57	93
13 PARALLEL II	0.78 lb ai/a	98	63	93
AATREX	1 lb ai/a			
14 PARALLEL II	1.17 lb ai/a	98	63	95
AATREX	1.51 lb ai/a			
15 PARALLEL II	1.56 lb ai/a	98	67	95
AATREX	2 lb ai/a			
16 PARALLEL II	1.76 lb ai/a	98	55	92
AATREX	1.46 lb ai/a			
17 PARALLEL II	1.96 lb ai/a	98	53	95
AATREX	1.66 lb ai/a			
18 PARALLEL II	2.34 lb ai/a	98	65	94
AATREX	1.95 lb ai/a			
19 MANA-283	2.14 lb ai/a	98	88	98
CALLISTO	0.15 lb ai/a			
AATREX	0.54 lb ai/a			
20 MANA-283	2.68 lb ai/a	98	91	97
CALLISTO	0.15 lb ai/a			
AATREX	0.78 lb ai/a			
21 MANA-283	3.22 lb ai/a	98	88	97
CALLISTO	0.15 lb ai/a			
22 MANA-283	3.59 lb ai/a	98	90	97
CALLISTO	0.15 lb ai/a			
23 MANA-283	4.29 lb ai/a	98	87	97
CALLISTO	0.15 lb ai/a			
24 LUMAX	2.46 lb ai/a	98	87	94
25 LUMAX	2.95 lb ai/a	98	90	97
26 CHECK UNTREATED		0	0	0
LSD (P=.05)		1.5	21.0	4.0
Standard Deviation		0.9	12.7	2.4
CV		1.03	21.14	2.81
Grand Mean		90.24	60.08	87.03
Bartlett's X2		2.029	24.439	6.754
P(Bartlett's X2)		0.363	0.38	0.987
Replicate F		0.954	4.522	0.234
Replicate Prob(F)		0.3923	0.0157	0.7922
Treatment F		2462.611	12.549	332.169
Treatment Prob(F)		0.0001	0.0001	0.0001

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Weed Science Field Research

CORN PREEMERGENCE IV

Trial ID: C4009
Location: LEXINGTON, KY

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

General Trial Information

Study Director: CHARLES H. SLACK
Affiliation: UNIVERSITY OF KENTUCKY
Postal Code: 40546
Investigator: Charles H. Slack

Trial Location

City: LEXINGTON **Trial Status:** COMPLETE
State/Prov.: KENTUCKY
Postal Code: 40511 **Initiation Date:** 5-4-04
Directions:

Objectives:

Conclusions:

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: GARST 8541 IT
BBCH Scale: BCOR **Planting Date:** 5-4-04
Planting Method: ROW **Rate, Unit:** 28000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM **Soil Temperature, Unit:** 57 F
Soil Moisture: SLIGHTLY WET **Emergence Date:** 5-9-04

Pest Description

Pest 1 Type: W **Code:** SETFA *Setaria faberi*
Common Name: Giant Foxtail
Pest 2 Type: W **Code:** XANST *Xanthium strumarium*
Common Name: Common cocklebur
Pest 3 Type: W **Code:** CHEAL *Chenopodium album*
Common Name: Lambsquarters, common

Site and Design

Plot Width, Unit: 5 FT **Site Type:** FIELD
Plot Length, Unit: 44 FT **Tillage Type:** CONVENTIONAL-TILL
Replications: 3 **Study Design:** Randomized Complete Block

Trial Initiation Comments:

Field Prep./Maintenance:

Soil Description

% Sand: 6 **% OM:** 2.6 **Texture:** SILT LOAM
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY
% Clay: 32 **CEC:** 17 **Fert. Level:** EXCELLENT

Moisture Conditions

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

Application Description**A**

Application Date: 5-4-04
Time of Day: 10:00
Application Method: SPRAY
Application Timing: PRE
Application Placement: BROSOI
Air Temperature, Unit: 49 F
% Relative Humidity: 70
Wind Velocity, Unit: 4 MPH
Dew Presence (Y/N): N
Soil Temperature, Unit: 57 F
Soil Moisture: ADEQUATE
% Cloud Cover: 20

Crop Stage At Each Application**A**

Crop 1 Code, BBCH Scale: ZEAMX BCOR
Stage Scale Used: BBCH

Pest Stage At Each Application**A**

Pest 1 Code, Disc., Scale: SETFA W
Pest 2 Code, Disc., Scale: XANST W
Pest 3 Code, Disc., Scale: CHEAL W

Application Equipment**A**

Appl. Equipment: ATV
Operating Pressure: 30
Pressure Unit: PSI
Nozzle Type: FLAT FAN
Nozzle Size: 8004 DG
Nozzle Spacing, Unit: 20 IN
Boom Length, Unit: 5 FT
Boom Height, Unit: 19 IN
Ground Speed, Unit: 4 MPH
Carrier: WATER
Spray Volume: 24
Volume Unit: GPA
Propellant: CO2

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CORN PREEMERGENCE V

Trial ID: C4010
Location: LEXINGTON, KY

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

Pest Type		W Weed	W Weed	W Weed
Pest Code		SETFA	XANST	CHEAL
Pest Name		Giant foxtail	Common cocklebur	Lambsquarters, commo
Crop Code	ZEAMX			
BBCH Scale	BCOR			
Crop Name	Corn			
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt Treatment	Rate	Rate	1	2	3	4
No. Name	Rate	Unit				
1 CHECK UNTREATED			0	0	0	0
2 BICEP II MAGNUM	1.78	lb ai/a	0	98	82	95
3 BICEP II MAGNUM	3.05	lb ai/a	0	98	85	95
4 BICEP II MAGNUM	3.56	lb ai/a	0	98	75	96
5 MANA-283	1.43	lb ai/a	0	98	78	95
AATREX	0.35	lb ai/a				
6 MANA-283	2.14	lb ai/a	0	98	90	96
AATREX	0.54	lb ai/a				
7 MANA-283	2.43	lb ai/a	0	98	93	96
AATREX	0.62	lb ai/a				
8 MANA-283	2.86	lb ai/a	0	98	92	97
AATREX	0.7	lb ai/a				
9 MANA-283	3.66	lb ai/a	0	98	95	98
10 MANA-283	4.29	lb ai/a	0	98	95	98
11 MANA-283	1.43	lb ai/a	0	98	92	98
AATREX	0.35	lb ai/a				
BALANCE PRO	0.047	lb ai/a				
12 MANA-283	2.14	lb ai/a	0	98	93	97
AATREX	0.54	lb ai/a				
BALANCE PRO	0.047	lb ai/a				
13 MANA-283	2.86	lb ai/a	0	98	97	98
AATREX	0.7	lb ai/a				
BALANCE PRO	0.047	lb ai/a				
14 MANA-283	3.66	lb ai/a	0	98	97	98
BALANCE PRO	0.047	lb ai/a				
15 MANA-283	4.29	lb ai/a	0	98	93	97
BALANCE PRO	0.047	lb ai/a				
16 MANA-283	1.43	lb ai/a	0	98	94	97
AATREX	0.35	lb ai/a				
BALANCE PRO	0.07	lb ai/a				
17 MANA-283	2.14	lb ai/a	0	98	94	97
AATREX	0.54	lb ai/a				
BALANCE PRO	0.07	lb ai/a				
18 MANA-283	2.86	lb ai/a	0	98	96	98
AATREX	0.7	lb ai/a				
BALANCE PRO	0.07	lb ai/a				
19 MANA-283	3.66	lb ai/a	0	98	98	98
BALANCE PRO	0.07	lb ai/a				
20 MANA-283	4.29	lb ai/a	0	98	98	98
BALANCE PRO	0.07	lb ai/a				
LSD (P=.05)			0.0	0.4	9.1	1.7
Standard Deviation			0.0	0.3	5.5	1.0
CV			0.0	0.28	6.34	1.12
Grand Mean			0.0	93.18	86.83	92.1
Bartlett's X2			0.0	0.0	30.13	0.0
P(Bartlett's X2)			.	1.00	0.007*	1.00
Replicate F			0.000	6.333	8.250	3.519
Replicate Prob(F)			1.0000	0.0042	0.0011	0.0396
Treatment F			0.000	21937.323	45.502	1326.193
Treatment Prob(F)			1.0000	0.0001	0.0001	0.0001

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Pest Type		W Weed	W Weed	W Weed	
Pest Code		SETFA	XANST	CHEAL	
Pest Name		Giant foxtail	Common cocklebur	Lambsquarters, commo	
Crop Code	ZEAMX				
BBCH Scale	BCOR				
Crop Name	Corn				
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	
Trt-Eval Interval	4 WEEK	4 WEEK	4 WEEK	4 WEEK	
ARM Action Codes	P	P	P	P	
Number of Decimals	0	0	0	0	
Trt Treatment	Rate				
No. Name	Rate Unit	5	6	7	
		8			
1 CHECK UNTREATED		0	0	0	0
2 BICEP II MAGNUM	1.78 lb ai/a	0	96	65	95
3 BICEP II MAGNUM	3.05 lb ai/a	0	98	72	95
4 BICEP II MAGNUM	3.56 lb ai/a	0	98	57	96
5 MANA-283	1.43 lb ai/a	0	98	63	95
AATREX	0.35 lb ai/a				
6 MANA-283	2.14 lb ai/a	0	98	75	96
AATREX	0.54 lb ai/a				
7 MANA-283	2.43 lb ai/a	0	98	83	96
AATREX	0.62 lb ai/a				
8 MANA-283	2.86 lb ai/a	0	98	82	97
AATREX	0.7 lb ai/a				
9 MANA-283	3.66 lb ai/a	0	98	85	98
10 MANA-283	4.29 lb ai/a	0	98	87	98
11 MANA-283	1.43 lb ai/a	0	98	82	98
AATREX	0.35 lb ai/a				
BALANCE PRO	0.047 lb ai/a				
12 MANA-283	2.14 lb ai/a	0	98	82	97
AATREX	0.54 lb ai/a				
BALANCE PRO	0.047 lb ai/a				
13 MANA-283	2.86 lb ai/a	0	98	92	98
AATREX	0.7 lb ai/a				
BALANCE PRO	0.047 lb ai/a				
14 MANA-283	3.66 lb ai/a	0	98	83	98
BALANCE PRO	0.047 lb ai/a				
15 MANA-283	4.29 lb ai/a	0	98	82	97
BALANCE PRO	0.047 lb ai/a				
16 MANA-283	1.43 lb ai/a	0	98	80	97
AATREX	0.35 lb ai/a				
BALANCE PRO	0.07 lb ai/a				
17 MANA-283	2.14 lb ai/a	0	98	83	97
AATREX	0.54 lb ai/a				
BALANCE PRO	0.07 lb ai/a				
18 MANA-283	2.86 lb ai/a	0	98	87	98
AATREX	0.7 lb ai/a				
BALANCE PRO	0.07 lb ai/a				
19 MANA-283	3.66 lb ai/a	0	98	92	98
BALANCE PRO	0.07 lb ai/a				
20 MANA-283	4.29 lb ai/a	0	98	92	98
BALANCE PRO	0.07 lb ai/a				
LSD (P=.05)		0.0	1.8	14.0	1.7
Standard Deviation		0.0	1.1	8.5	1.0
CV		0.0	1.2	11.13	1.12
Grand Mean		0.0	93.05	76.08	92.1
Bartlett's X2		0.0	18.041	30.215	0.0
P(Bartlett's X2)		.	0.001*	0.025*	1.00
Replicate F		0.000	1.737	7.852	3.519
Replicate Prob(F)		1.0000	0.1897	0.0014	0.0396
Treatment F		0.000	1163.410	17.183	1326.193
Treatment Prob(F)		1.0000	0.0001	0.0001	0.0001

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Pest Type		W Weed		W Weed		W Weed
Pest Code		SETFA		XANST		CHEAL
Pest Name		Giant foxtail		Common cocklebur		Lambsquarters, commo
Crop Code		ZEAMX				
BBCH Scale		BCOR				
Crop Name		Corn				
Rating Data Type		INJURY		CONTROL		CONTROL
Rating Unit		PERCENT		PERCENT		PERCENT
Trt-Eval Interval		8 WEEK		8 WEEK		8 WEEK
ARM Action Codes		P		P		P
Number of Decimals		0		0		0

Trt Treatment	Rate	Unit	9	10	11	12
1 CHECK UNTREATED			0	0	0	0
2 BICEP II MAGNUM	1.78 lb	ai/a	0	96	43	95
3 BICEP II MAGNUM	3.05 lb	ai/a	0	98	52	93
4 BICEP II MAGNUM	3.56 lb	ai/a	0	98	50	96
5 MANA-283	1.43 lb	ai/a	0	98	45	95
AATREX	0.35 lb	ai/a				
6 MANA-283	2.14 lb	ai/a	0	98	68	96
AATREX	0.54 lb	ai/a				
7 MANA-283	2.43 lb	ai/a	0	98	78	96
AATREX	0.62 lb	ai/a				
8 MANA-283	2.86 lb	ai/a	0	98	77	97
AATREX	0.7 lb	ai/a				
9 MANA-283	3.66 lb	ai/a	0	98	80	97
10 MANA-283	4.29 lb	ai/a	0	98	80	97
11 MANA-283	1.43 lb	ai/a	0	98	78	98
AATREX	0.35 lb	ai/a				
BALANCE PRO	0.047 lb	ai/a				
12 MANA-283	2.14 lb	ai/a	0	98	78	97
AATREX	0.54 lb	ai/a				
BALANCE PRO	0.047 lb	ai/a				
13 MANA-283	2.86 lb	ai/a	0	98	90	98
AATREX	0.7 lb	ai/a				
BALANCE PRO	0.047 lb	ai/a				
14 MANA-283	3.66 lb	ai/a	0	98	77	97
BALANCE PRO	0.047 lb	ai/a				
15 MANA-283	4.29 lb	ai/a	0	98	77	97
BALANCE PRO	0.047 lb	ai/a				
16 MANA-283	1.43 lb	ai/a	0	98	73	97
AATREX	0.35 lb	ai/a				
BALANCE PRO	0.07 lb	ai/a				
17 MANA-283	2.14 lb	ai/a	0	98	81	97
AATREX	0.54 lb	ai/a				
BALANCE PRO	0.07 lb	ai/a				
18 MANA-283	2.86 lb	ai/a	0	98	83	98
AATREX	0.7 lb	ai/a				
BALANCE PRO	0.07 lb	ai/a				
19 MANA-283	3.66 lb	ai/a	0	98	93	98
BALANCE PRO	0.07 lb	ai/a				
20 MANA-283	4.29 lb	ai/a	0	98	91	98
BALANCE PRO	0.07 lb	ai/a				
LSD (P=.05)			0.0	1.8	17.9	2.3
Standard Deviation			0.0	1.1	10.9	1.4
CV			0.0	1.2	15.58	1.5
Grand Mean			0.0	93.05	69.7	91.87
Bartlett's X2			0.0	18.041	27.02	1.157
P(Bartlett's X2)			.	0.001*	0.058	1.00
Replicate F			0.000	1.737	14.434	2.625
Replicate Prob(F)			1.0000	0.1897	0.0001	0.0856
Treatment F			0.000	1163.410	12.279	736.143
Treatment Prob(F)			1.0000	0.0001	0.0001	0.0001

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

CORN PREEMERGENCE V

Trial ID: C4010
Location: LEXINGTON, KY

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

General Trial Information

Study Director: CHARLES H. SLACK
Affiliation: UNIVERSITY OF KENTUCKY
Postal Code: 40546
Investigator: Charles H. Slack

Trial Location

City: LEXINGTON **Trial Status:** COMPLETE
State/Prov.: KENTUCKY
Postal Code: 40511 **Initiation Date:** 5-4-04
Directions:

Objectives:**Conclusions:****Crop Description**

Crop 1: ZEAMX Zea mays Corn
Variety: GARST 8541 IT
BBCH Scale: BCOR **Planting Date:** 5-4-04
Planting Method: ROW **Rate, Unit:** 28000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM **Soil Temperature, Unit:** 57 F
Soil Moisture: SLIGHTLY WET **Emergence Date:** 5-9-04

Pest Description

Pest 1 Type: W **Code:** SETFA *Setaria faberi*
Common Name: Giant Foxtail
Pest 2 Type: W **Code:** XANST *Xanthium strumarium*
Common Name: Common cocklebur
Pest 3 Type: W **Code:** CHEAL *Chenopodium album*
Common Name: Lambsquarters, common

Site and Design

Plot Width, Unit: 5 FT **Site Type:** FIELD
Plot Length, Unit: 44 FT **Tillage Type:** CONVENTIONAL-TILL
Replications: 3 **Study Design:** Randomized Complete Block

Trial Initiation Comments:**Field Prep./Maintenance:****Soil Description**

% Sand: 6 **% OM:** 2.6 **Texture:** SILT LOAM
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY
% Clay: 32 **CEC:** 17 **Fert. Level:** EXCELLENT

Moisture Conditions

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

Application Description**A**

Application Date: 5-4-04
Time of Day: 11:00
Application Method: SPRAY
Application Timing: PRE
Application Placement: BROSOI
Air Temperature, Unit: 49 F
% Relative Humidity: 70
Wind Velocity, Unit: 4 MPH
Dew Presence (Y/N): N
Soil Temperature, Unit: 57 F
Soil Moisture: ADEQUATE
% Cloud Cover: 20

Crop Stage At Each Application**A**

Crop 1 Code, BBCH Scale: ZEAMX BCOR
Stage Scale Used: BBCH

Pest Stage At Each Application**A**

Pest 1 Code, Disc., Scale: SETFA W
Pest 2 Code, Disc., Scale: XANST W
Pest 3 Code, Disc., Scale: CHEAL W

Application Equipment**A**

Appl. Equipment: ATV
Operating Pressure: 30
Pressure Unit: PSI
Nozzle Type: FLAT FAN
Nozzle Size: 8004 DG
Nozzle Spacing, Unit: 20 IN
Boom Length, Unit: 5 FT
Boom Height, Unit: 19 IN
Ground Speed, Unit: 4 MPH
Carrier: WATER
Spray Volume: 24
Volume Unit: GPA
Propellant: CO2

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

CORN PREEMERGENCE VII

Trial ID: C4011
Location: LEXINGTON, KY

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

Pest Type	W Weed	W Weed	W Weed
Pest Code	SETFA	SETFA	SETFA
Pest Name	Giant foxtail	Giant foxtail	Giant foxtail
Crop Code	ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR	BCOR	BCOR
Crop Name	Corn	Corn	Corn
Rating Data Type	INJURY	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEK	2 WEEK	4 WEEK
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt Treatment	Rate	Rate	1	2	3	4	5	6
No. Name	Rate	Unit						
1 STALWART C	1.63	lb ai/a	0	96	0	93	0	93
DICAMBA	0.25	lb ai/a						
2 KIH-485	0.148	lb ai/a	0	99	0	96	0	96
DICAMBA	0.25	lb ai/a						
3 KIH-485	0.186	lb ai/a	0	99	0	98	0	98
DICAMBA	0.25	lb ai/a						
4 DUAL II MAGNUM	1.27	lb ai/a	0	99	0	98	0	98
DICAMBA	0.25	lb ai/a						
5 DUAL II MAGNUM	1.59	lb ai/a	0	99	0	96	0	96
DICAMBA	0.25	lb ai/a						
6 HARNESS	1.86	lb ai/a	0	99	0	98	0	98
DICAMBA	0.25	lb ai/a						
7 DEGREE	1.86	lb ai/a	0	89	0	88	0	88
DICAMBA	0.25	lb ai/a						
8 DEFINE	0.56	lb ai/a	0	99	0	98	0	98
DICAMBA	0.25	lb ai/a						
LSD (P=.05)			0.0	11.1	0.0	9.1	0.0	9.1
Standard Deviation			0.0	6.3	0.0	5.2	0.0	5.2
CV			0.0	6.49	0.0	5.44	0.0	5.44
Grand Mean			0.0	97.42	0.0	95.58	0.0	95.58
Bartlett's X2			0.0	2.207	0.0	12.934	0.0	12.934
P(Bartlett's X2)			.	0.137	.	0.074	.	0.074
Replicate F			0.000	0.689	0.000	1.042	0.000	1.042
Replicate Prob(F)			1.0000	0.5183	1.0000	0.3785	1.0000	0.3785
Treatment F			0.000	0.883	0.000	1.233	0.000	1.233
Treatment Prob(F)			1.0000	0.5437	1.0000	0.3488	1.0000	0.3488

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Weed Science Field Research

CORN PREEMERGENCE VII

Trial ID: C4011
Location: LEXINGTON, KY

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

General Trial Information

Study Director: CHARLES H. SLACK
Affiliation: UNIVERSITY OF KENTUCKY
Postal Code: 40546
Investigator: Charles H. Slack

Trial Location

City: LEXINGTON **Trial Status:** COMPLETE
State/Prov.: KENTUCKY
Postal Code: 40511 **Initiation Date:** 4-29-04
Directions:

Objectives:

Conclusions:

Crop Description

Crop 1: ZEAMX Zea mays **Corn**
Variety: DKC 64-11 RR
BBCH Scale: BCOR **Planting Date:** 4-29-04
Planting Method: ROW **Rate, Unit:** 28000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM **Soil Temperature, Unit:** 62 F
Soil Moisture: SLIGHTLY WET **Emergence Date:** 5-4-04

Pest Description

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

Site and Design

Plot Width, Unit: 5 FT **Site Type:** FIELD
Plot Length, Unit: 44 FT **Tillage Type:** CONVENTIONAL-TILL
Replications: 3 **Study Design:** Randomized Complete Block

Trial Initiation Comments:

Field Prep./Maintenance:

Soil Description

% Sand: 3 **% OM:** 4 **Texture:** SILT LOAM
% Silt: 63 **pH:** 6.5 **Soil Name:** LANTON
% Clay: 34 **CEC:** 25 **Fert. Level:** EXCELLENT

Moisture Conditions

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

Application Description

	A	B
Application Date:	4-29-04	5-27-04
Time of Day:	1:00	10:00
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	MP
Application Placement:	BROSIO	BROFOL
Air Temperature, Unit:	64 F	71 F
% Relative Humidity:	53	83
Wind Velocity, Unit:	3 MPH	4 MPH
Dew Presence (Y/N):	N	N
Soil Temperature, Unit:	62 F	72 F
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	10	20

Crop Stage At Each Application

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

Pest Stage At Each Application

	A	B
Pest 1 Code, Disc., Scale:	SETFA W	SETFA W
Height, Unit:	6	IN

Application Equipment

	A	B
Appl. Equipment:	ATV	BACKPACK
Operating Pressure:	30	30
Pressure Unit:	PSI	PSI
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	8004 DG	8004 DG
Nozzle Spacing, Unit:	20 IN	20 IN
Boom Length, Unit:	5 FT	5 FT
Boom Height, Unit:	19 IN	30 IN
Ground Speed, Unit:	4 MPH	3.5 MPH
Carrier:	WATER	WATER
Spray Volume:	24	24
Volume Unit:	GPA	GPA
Propellant:	CO2	CO2

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

CORN PREEMERGENCE VIII

Trial ID: C4011-2
Location: LEXINGTON, KY

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

Pest Type	W Weed		W Weed		W Weed	
Pest Code	SETFA		SETFA		SETFA	
Pest Name	Giant foxtail		Giant foxtail		Giant foxtail	
Crop Code	ZEAMX		ZEAMX		ZEAMX	
BBCH Scale	BCOR		BCOR		BCOR	
Crop Name	Corn		Corn		Corn	
Rating Data Type	INJURY	CONTROL	INJURY	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEK	2 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt Treatment	Rate	Rate						
No. Name	Rate	Unit	1	2	3	4	5	6
1 STALWART C	1.63	lb ai/a	0	96	0	91	0	91
DICAMBA	0.25	lb ai/a						
2 KIH-485	0.148	lb ai/a	0	96	0	92	0	92
DICAMBA	0.25	lb ai/a						
3 KIH-485	0.186	lb ai/a	0	95	0	92	0	92
DICAMBA	0.25	lb ai/a						
4 DUAL II MAGNUM	1.27	lb ai/a	0	98	0	93	0	93
DICAMBA	0.25	lb ai/a						
5 DUAL II MAGNUM	1.59	lb ai/a	0	97	0	93	0	93
DICAMBA	0.25	lb ai/a						
6 HARNESS	1.86	lb ai/a	0	94	0	90	0	90
DICAMBA	0.25	lb ai/a						
7 DEGREE	1.86	lb ai/a	0	88	0	80	0	80
DICAMBA	0.25	lb ai/a						
8 DEFINE	0.56	lb ai/a	0	94	0	88	0	88
DICAMBA	0.25	lb ai/a						
LSD (P=.05)			0.0	5.5	0.0	5.6	0.0	5.6
Standard Deviation			0.0	3.1	0.0	3.2	0.0	3.2
CV			0.0	3.31	0.0	3.58	0.0	3.58
Grand Mean			0.0	94.88	0.0	89.92	0.0	89.92
Bartlett's X2			0.0	4.932	0.0	2.035	0.0	2.035
P(Bartlett's X2)			.	0.424	.	0.916	.	0.916
Replicate F			0.000	0.623	0.000	3.088	0.000	3.088
Replicate Prob(F)			1.0000	0.5508	1.0000	0.0774	1.0000	0.0774
Treatment F			0.000	2.623	0.000	5.432	0.000	5.432
Treatment Prob(F)			1.0000	0.0591	1.0000	0.0035	1.0000	0.0035

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CORN PREEMERGENCE VIII

Trial ID: C4011-2
Location: LEXINGTON, KY

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

General Trial Information

Study Director: CHARLES H. SLACK
Affiliation: UNIVERSITY OF KENTUCKY
Postal Code: 40546
Investigator: Charles H. Slack

Trial Location

City: LEXINGTON **Trial Status:** COMPLETE
State/Prov.: KENTUCKY
Postal Code: 40511 **Initiation Date:** 4-29-04
Directions:

Objectives:**Conclusions:****Crop Description**

Crop 1: ZEAMX Zea mays **Corn**
Variety: GARST 8541 IT
BBCH Scale: BCOR **Planting Date:** 4-29-04
Planting Method: ROW **Rate, Unit:** 28000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM **Soil Temperature, Unit:** 62 F
Soil Moisture: SLIGHTLY WET **Emergence Date:** 5-4-04

Pest Description

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

Site and Design

Plot Width, Unit: 5 FT **Site Type:** FIELD
Plot Length, Unit: 44 FT **Tillage Type:** CONVENTIONAL-TILL
Replications: 3 **Study Design:** Randomized Complete Block

Trial Initiation Comments:**Field Prep./Maintenance:****Soil Description**

% Sand: 6 **% OM:** 2.6 **Texture:** SILT LOAM
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY
% Clay: 32 **CEC:** 17 **Fert. Level:** EXCELLENT

Moisture Conditions

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

Application Description

	A	B
Application Date:	4-29-04	5-27-04
Time of Day:	2:00	3:00
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	MP
Application Placement:	BROSOI	BROFOL
Air Temperature, Unit:	64 F	71 F
% Relative Humidity:	53	83
Wind Velocity, Unit:	3 MPH	4 MPH
Dew Presence (Y/N):	N	N
Soil Temperature, Unit:	62 F	72 F
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	10	20

Crop Stage At Each Application

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

Pest Stage At Each Application

	A	B
Pest 1 Code, Disc., Scale:	SETFA W	SETFA W
Height, Unit:	6	IN

Application Equipment

	A	B
Appl. Equipment:	ATV	BACKPACK
Operating Pressure:	30	30
Pressure Unit:	PSI	PSI
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	8004 DG	8004 DG
Nozzle Spacing, Unit:	20 IN	20 IN
Boom Length, Unit:	5 FT	5 FT
Boom Height, Unit:	19 IN	30 IN
Ground Speed, Unit:	4 MPH	3.5 MPH
Carrier:	WATER	WATER
Spray Volume:	24	24
Volume Unit:	GPA	GPA
Propellant:	CO2	CO2

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NO-TILL CORN II

Trial ID: C4012
Location: LEXINGTON, KY

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

Pest Type	W Weed	W Weed	W Weed
Pest Code	STEME	TAROF	CHEAL
Pest Name	Common chickweed	Common dandelion	Lambsquarters, commo
Crop Code			
BBCH Scale			
Crop Name			
Rating Data Type	PERCENT	PERCENT	PERCENT
Rating Unit	CONTROL	CONTROL	CONTROL
Trt-Eval Interval	3 DAY	3 DAY	3 DAY
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt Treatment	Rate	Rate			
No. Name	Rate	Unit	1	2	3
1 ROUNDUP WEATHERMAX	0.75	lb ae/a			
ET-751 2.5%	0.37	g ai/a	80	80	80
AMS	5	% v/v			
2 ROUNDUP WEATHERMAX	0.75	lb ae/a	80	80	80
ET-751 2.5%	0.735	g ai/a			
AMS	5	% v/v			
3 ROUNDUP WEATHERMAX	0.75	lb ae/a	95	90	95
LABS 141-F01	0.5	lbai/a			
ET-751 2.5%	0.37	g ai/a			
COC	1	% v/v			
4 ROUNDUP WEATHERMAX	0.75	lb ae/a	90	90	90
LABS 141-F01	0.5	lbai/a			
AMS	5	% v/v			
5 ROUNDUP WEATHERMAX	0.75	lb ae/a	58	63	60
AMS	5	% v/v			
6 ROUNDUP WEATHERMAX	0.75	lb ae/a	86	85	85
AIM	7.1	g ai/a			
AMS	5	% v/v			
7 ROUNDUP WEATHERMAX	0.75	lb ae/a	50	49	50
2,4-D ESTER	0.5	lbai/a			
AMS	5	% v/v			
8 CONTROL			0	0	0
LSD (P=.05)			3.1	1.9	0.0
Standard Deviation			2.1	1.3	0.0
CV			3.1	1.93	0.0
Grand Mean			67.34	67.03	67.5
Bartlett's X2			1.312	0.061	0.0
P(Bartlett's X2)			0.252	0.806	.
Replicate F			0.179	1.711	0.000
Replicate Prob(F)			0.9091	0.1953	1.0000
Treatment F			904.385	2239.934	0.000
Treatment Prob(F)			0.0001	0.0001	1.0000

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Pest Type		W Weed	W Weed	W Weed	
Pest Code		AMBTR	STEME	TAROF	
Pest Name		Ragweed, giant	Common chickweed	Common dandelion	
Crop Code					
BBCH Scale					
Crop Name					
Rating Data Type		PERCENT	PERCENT	PERCENT	
Rating Unit		CONTROL	CONTROL	CONTROL	
Trt-Eval Interval		3 DAY	1 WEEK	1 WEEK	
ARM Action Codes		P	P	P	
Number of Decimals		0	0	0	
Trt Treatment	Rate	Rate			
No. Name	Rate	Unit	4	5	6
1 ROUNDUP WEATHERMAX	0.75	lb ae/a	79	96	88
ET-751 2.5%	0.37	g ai/a			
AMS	5	% v/v			
2 ROUNDUP WEATHERMAX	0.75	lb ae/a	80	96	85
ET-751 2.5%	0.735	g ai/a			
AMS	5	% v/v			
3 ROUNDUP WEATHERMAX	0.75	lb ae/a	95	97	93
LABS 141-F01	0.5	lbai/a			
ET-751 2.5%	0.37	g ai/a			
COC	1	% v/v			
4 ROUNDUP WEATHERMAX	0.75	lb ae/a	90	96	92
LABS 141-F01	0.5	lbai/a			
AMS	5	% v/v			
5 ROUNDUP WEATHERMAX	0.75	lb ae/a	60	96	91
AMS	5	% v/v			
6 ROUNDUP WEATHERMAX	0.75	lb ae/a	85	97	89
AIM	7.1	g ai/a			
AMS	5	% v/v			
7 ROUNDUP WEATHERMAX	0.75	lb ae/a	50	97	84
2,4-D ESTER	0.5	lbai/a			
AMS	5	% v/v			
8 CONTROL			0	0	0
LSD (P=.05)			1.3	2.7	7.2
Standard Deviation			0.9	1.9	4.9
CV			1.31	2.22	6.3
Grand Mean			67.34	84.09	77.59
Bartlett's X2			0.0	5.705	7.897
P(Bartlett's X2)			.	0.457	0.246
Replicate F			1.000	2.083	1.423
Replicate Prob(F)			0.4123	0.1330	0.2641
Treatment F			4951.857	1321.337	166.140
Treatment Prob(F)			0.0001	0.0001	0.0001

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Pest Type			W Weed	W Weed		W Weed
Pest Code			CHEAL	AMBTR		STEME
Pest Name			Lambsquarters,	commo Ragweed,	giant	Common chickweed
Crop Code						ZEAMX
BBCH Scale						BCOR
Crop Name						Corn
Rating Data Type			PERCENT	PERCENT	INJURY	PERCENT
Rating Unit			CONTROL	CONTROL	CONTROL	CONTROL
Trt-Eval Interval			1 WEEK	1 WEEK	2 WEEK	2 WEEK
ARM Action Codes			P	P	P	P
Number of Decimals			0	0	0	0
Trt Treatment	Rate	Rate				
No. Name	Rate	Unit	7	8	9	10
1 ROUNDUP WEATHERMAX	0.75	lb ae/a				
ET-751 2.5%	0.37	g ai/a	97	89	0	96
AMS	5	% v/v				
2 ROUNDUP WEATHERMAX	0.75	lb ae/a	95	83	0	96
ET-751 2.5%	0.735	g ai/a				
AMS	5	% v/v				
3 ROUNDUP WEATHERMAX	0.75	lb ae/a	97	96	0	97
LABS 141-F01	0.5	lbai/a				
ET-751 2.5%	0.37	g ai/a				
COC	1	% v/v				
4 ROUNDUP WEATHERMAX	0.75	lb ae/a	97	94	0	96
LABS 141-F01	0.5	lbai/a				
AMS	5	% v/v				
5 ROUNDUP WEATHERMAX	0.75	lb ae/a	97	90	0	96
AMS	5	% v/v				
6 ROUNDUP WEATHERMAX	0.75	lb ae/a	95	91	0	97
AIM	7.1	g ai/a				
AMS	5	% v/v				
7 ROUNDUP WEATHERMAX	0.75	lb ae/a	97	95	0	97
2,4-D ESTER	0.5	lbai/a				
AMS	5	% v/v				
8 CONTROL			0	0	0	0
LSD (P=.05)			2.6	6.2	0.0	2.7
Standard Deviation			1.8	4.2	0.0	1.9
CV			2.08	5.27	0.0	2.22
Grand Mean			84.28	79.56	0.0	84.09
Bartlett's X2			4.48	8.412	0.0	5.705
P(Bartlett's X2)			0.483	0.135	.	0.457
Replicate F			2.048	0.684	0.000	2.083
Replicate Prob(F)			0.1379	0.5719	1.0000	0.1330
Treatment F			1513.419	238.750	0.000	1321.337
Treatment Prob(F)			0.0001	0.0001	1.0000	0.0001

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Pest Type			W Weed		W Weed		W Weed		
Pest Code			TAROF		CHEAL		AMBTR		
Pest Name			Common dandelion		Lambsquarters, commo		Ragweed, giant		
Crop Code								ZEAMX	
BBCH Scale								BCOR	
Crop Name								Corn	
Rating Data Type			PERCENT		PERCENT		PERCENT	INJURY	
Rating Unit			CONTROL		CONTROL		CONTROL	CONTROL	
Trt-Eval Interval			2 WEEK		2 WEEK		2 WEEK	4 WEEK	
ARM Action Codes			P		P		P	P	
Number of Decimals			0		0		0	0	
Trt Treatment	Rate	Rate							
No. Name	Rate	Unit	11		12		13	14	
1 ROUNDUP WEATHERMAX	0.75	lb ae/a		88		97		89	0
ET-751 2.5%	0.37	g ai/a							
AMS	5	% v/v							
2 ROUNDUP WEATHERMAX	0.75	lb ae/a		85		95		83	0
ET-751 2.5%	0.735	g ai/a							
AMS	5	% v/v							
3 ROUNDUP WEATHERMAX	0.75	lb ae/a		93		97		96	0
LABS 141-F01	0.5	lbai/a							
ET-751 2.5%	0.37	g ai/a							
COC	1	% v/v							
4 ROUNDUP WEATHERMAX	0.75	lb ae/a		92		97		94	0
LABS 141-F01	0.5	lbai/a							
AMS	5	% v/v							
5 ROUNDUP WEATHERMAX	0.75	lb ae/a		91		97		90	0
AMS	5	% v/v							
6 ROUNDUP WEATHERMAX	0.75	lb ae/a		89		95		91	0
AIM	7.1	g ai/a							
AMS	5	% v/v							
7 ROUNDUP WEATHERMAX	0.75	lb ae/a		84		97		95	0
2,4-D ESTER	0.5	lbai/a							
AMS	5	% v/v							
8 CONTROL				0		0		0	0
LSD (P=.05)				7.2		2.6		6.2	0.0
Standard Deviation				4.9		1.8		4.2	0.0
CV				6.3		2.08		5.27	0.0
Grand Mean				77.59		84.28		79.56	0.0
Bartlett's X2				7.897		4.48		8.412	0.0
P(Bartlett's X2)				0.246		0.483		0.135	.
Replicate F				1.423		2.048		0.684	0.000
Replicate Prob(F)				0.2641		0.1379		0.5719	1.0000
Treatment F				166.140		1513.419		238.750	0.000
Treatment Prob(F)				0.0001		0.0001		0.0001	1.0000

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Pest Type	W Weed	W Weed	W Weed
Pest Code	STEME	TAROF	CHEAL
Pest Name	Common chickweed	Common dandelion	Lambsquarters, commo
Crop Code			
BBCH Scale			
Crop Name			
Rating Data Type	PERCENT	PERCENT	PERCENT
Rating Unit	CONTROL	CONTROL	CONTROL
Trt-Eval Interval	4 WEEK	4 WEEK	4 WEEK
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt Treatment	Rate	Rate			
No. Name	Rate	Unit	15	16	17
1 ROUNDUP WEATHERMAX	0.75	lb ae/a			
ET-751 2.5%	0.37	g ai/a	94	85	89
AMS	5	% v/v			
2 ROUNDUP WEATHERMAX	0.75	lb ae/a	95	79	88
ET-751 2.5%	0.735	g ai/a			
AMS	5	% v/v			
3 ROUNDUP WEATHERMAX	0.75	lb ae/a	95	89	89
LABS 141-F01	0.5	lbai/a			
ET-751 2.5%	0.37	g ai/a			
COC	1	% v/v			
4 ROUNDUP WEATHERMAX	0.75	lb ae/a	96	87	94
LABS 141-F01	0.5	lbai/a			
AMS	5	% v/v			
5 ROUNDUP WEATHERMAX	0.75	lb ae/a	96	91	93
AMS	5	% v/v			
6 ROUNDUP WEATHERMAX	0.75	lb ae/a	97	89	91
AIM	7.1	g ai/a			
AMS	5	% v/v			
7 ROUNDUP WEATHERMAX	0.75	lb ae/a	97	84	90
2,4-D ESTER	0.5	lbai/a			
AMS	5	% v/v			
8 CONTROL			0	0	0
LSD (P=.05)			2.6	9.1	5.9
Standard Deviation			1.8	6.2	4.0
CV			2.15	8.24	5.03
Grand Mean			83.56	75.41	79.13
Bartlett's X2			4.017	17.112	4.812
P(Bartlett's X2)			0.404	0.009*	0.439
Replicate F			2.436	2.528	1.780
Replicate Prob(F)			0.0931	0.0850	0.1818
Treatment F			1411.906	97.631	258.828
Treatment Prob(F)			0.0001	0.0001	0.0001

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Weed Science Field Research

Pest Type			W Weed		W Weed		W Weed
Pest Code			AMBTR		TAROF		CHEAL
Pest Name			Ragweed, giant		Common dandelion	Lambsquarters,	commo
Crop Code				ZEAMX			
BBCH Scale				BCOR			
Crop Name				Corn			
Rating Data Type			PERCENT	INJURY	PERCENT		PERCENT
Rating Unit			CONTROL	CONTROL	CONTROL		CONTROL
Trt-Eval Interval			4 WEEK	8 WEEK	8 WEEK		8 WEEK
ARM Action Codes			P	P	P		P
Number of Decimals			0	0	0		0
Trt Treatment	Rate	Rate					
No. Name	Rate	Unit	18	19	20		21
1 ROUNDUP WEATHERMAX	0.75	lb ae/a	78	0	85		89
ET-751 2.5%	0.37	g ai/a					
AMS	5	% v/v					
2 ROUNDUP WEATHERMAX	0.75	lb ae/a	75	0	79		85
ET-751 2.5%	0.735	g ai/a					
AMS	5	% v/v					
3 ROUNDUP WEATHERMAX	0.75	lb ae/a	86	0	89		86
LABS 141-F01	0.5	lbai/a					
ET-751 2.5%	0.37	g ai/a					
COC	1	% v/v					
4 ROUNDUP WEATHERMAX	0.75	lb ae/a	88	0	87		94
LABS 141-F01	0.5	lbai/a					
AMS	5	% v/v					
5 ROUNDUP WEATHERMAX	0.75	lb ae/a	83	0	91		92
AMS	5	% v/v					
6 ROUNDUP WEATHERMAX	0.75	lb ae/a	82	0	89		91
AIM	7.1	g ai/a					
AMS	5	% v/v					
7 ROUNDUP WEATHERMAX	0.75	lb ae/a	81	0	84		90
2,4-D ESTER	0.5	lbai/a					
AMS	5	% v/v					
8 CONTROL			0	0	0		0
LSD (P=.05)			8.5	0.0	9.1		8.9
Standard Deviation			5.8	0.0	6.2		6.0
CV			8.05	0.0	8.24		7.69
Grand Mean			71.44	0.0	75.41		78.38
Bartlett's X2			11.06	0.0	17.112		9.377
P(Bartlett's X2)			0.087	.	0.009*		0.095
Replicate F			0.540	0.000	2.528		1.373
Replicate Prob(F)			0.6600	1.0000	0.0850		0.2783
Treatment F			102.681	0.000	97.631		111.300
Treatment Prob(F)			0.0001	1.0000	0.0001		0.0001

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Weed Science Field Research

Pest Type W Weed
Pest Code AMBTR
Pest Name Ragweed, giant
Crop Code
BBCH Scale
Crop Name
Rating Data Type PERCENT
Rating Unit CONTROL
Trt-Eval Interval 8 WEEK
ARM Action Codes P
Number of Decimals 0

Trt	Treatment	Rate	Rate	Unit	22
No.	Name	Rate	Unit		
1	ROUNDUP WEATHERMAX	0.75	lb	ae/a	55
	ET-751 2.5%	0.37	g	ai/a	
	AMS	5	%	v/v	
2	ROUNDUP WEATHERMAX	0.75	lb	ae/a	53
	ET-751 2.5%	0.735	g	ai/a	
	AMS	5	%	v/v	
3	ROUNDUP WEATHERMAX	0.75	lb	ae/a	60
	LABS 141-F01	0.5	lb	ai/a	
	ET-751 2.5%	0.37	g	ai/a	
	COC	1	%	v/v	
4	ROUNDUP WEATHERMAX	0.75	lb	ae/a	68
	LABS 141-F01	0.5	lb	ai/a	
	AMS	5	%	v/v	
5	ROUNDUP WEATHERMAX	0.75	lb	ae/a	55
	AMS	5	%	v/v	
6	ROUNDUP WEATHERMAX	0.75	lb	ae/a	68
	AIM	7.1	g	ai/a	
	AMS	5	%	v/v	
7	ROUNDUP WEATHERMAX	0.75	lb	ae/a	65
	2,4-D ESTER	0.5	lb	ai/a	
	AMS	5	%	v/v	
8	CONTROL				0
	LSD (P=.05)				8.1
	Standard Deviation				5.5
	CV				10.46
	Grand Mean				52.81
	Bartlett's X2				2.497
	P(Bartlett's X2)				0.777
	Replicate F				0.922
	Replicate Prob(F)				0.4474
	Treatment F				64.259
	Treatment Prob(F)				0.0001

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

NO-TILL CORN II

Trial ID: C4012
Location: LEXINGTON, KY

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

General Trial Information

Study Director: CHARLES H. SLACK
Affiliation: UNIVERSITY OF KENTUCKY
Postal Code: 40546
Investigator: Charles H. Slack

Trial Location

City: LEXINGTON **Trial Status:** COMPLETE
State/Prov.: KENTUCKY
Postal Code: 40511 **Initiation Date:** 4-29-04
Directions:

Objectives:

Conclusions:

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC 64-11 RR
BBCH Scale: BCOR
Planting Method: ROW **Rate, Unit:** 28000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM/TRASHY **Soil Temperature, Unit:** 58 F
Soil Moisture: SLIGHTLY WET **Emergence Date:** 5-4-04

Pest Description

Pest 1 Type: W **Code:** STEME *Stellaria media*
Common Name: Common chickweed
Pest 2 Type: W **Code:** TAROF *Taraxacum officinale*
Common Name: Common dandelion
Pest 3 Type: W **Code:** CHEAL *Chenopodium album*
Common Name: Lambsquarters, common
Pest 4 Type: W **Code:** AMBTR *Ambrosia trifida*
Common Name: Giant Ragweed

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD
Plot Length, Unit: 33 FT **Tillage Type:** NO-TILL
Replications: 4 **Study Design:** Randomized Complete Block

Trial Initiation Comments:

Field Prep./Maintenance:

Soil Description

% Sand: 3 **% OM:** 4 **Texture:** SILT LOAM
% Silt: 63 **pH:** 6.5 **Soil Name:** LANTON
% Clay: 34 **CEC:** 25 **Fert. Level:** EXCELLENT

Moisture Conditions

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

Application Description**A**

Application Date: 5-4-04
Time of Day: 10:00
Application Method: SPRAY
Application Timing: PRE
Application Placement: BROFOL
Air Temperature, Unit: 49 F
% Relative Humidity: 70
Wind Velocity, Unit: 3 MPH
Dew Presence (Y/N): N
Soil Temperature, Unit: 55 F
Soil Moisture: ADEQUATE
% Cloud Cover: 20

Crop Stage At Each Application**A**

Crop 1 Code, BBCH Scale: ZEAMX BCOR
Stage Scale Used: BBCH

Pest Stage At Each Application**A**

Pest 1 Code, Disc., Scale: STEME W
Pest 2 Code, Disc., Scale: TAROF W
Pest 3 Code, Disc., Scale: CHEAL W
Pest 4 Code, Disc., Scale: AMBTR W

Application Equipment**A**

Appl. Equipment: ATV
Operating Pressure: 30
Pressure Unit: PSI
Nozzle Type: FLAT FAN
Nozzle Size: 8004 DG
Nozzle Spacing, Unit: 20 IN
Boom Length, Unit: 10 FT
Boom Height, Unit: 19 IN
Ground Speed, Unit: 4 MPH
Carrier: WATER
Spray Volume: 24
Volume Unit: GPA
Propellant: CO2

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Weed Science Field Research

NO-TILL CORN III

Trial ID: C4013
Location: LEXINGTON, KY

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

Pest Type		W Weed	W Weed	W Weed
Pest Code		SETFA	AMACH	AMBTR
Pest Name		Giant foxtail	Smooth pigweed	Giant Ragweed
Crop Code	ZEAMX			
BBCH Scale	BCOR			
Crop Name	Corn			
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Rate Unit	1	2	3	4
1 KEYSTONE	1.35 qt/a	0	99	99	99
GF-1279	12 fl oz/a				
AMS	1.5 % v/v				
STARANE	0.66 pt/a				
2 KEYSTONE	1.35 qt/a	0	99	99	99
GF-1279	12 fl oz/a				
AMS	1.5 % v/v				
GF-1203	1.33 pt/a				
3 KEYSTONE	1.35 qt/a	0	99	99	99
GF-1279	12 fl oz/a				
AMS	1.5 % v/v				
HORNET	4 oz/a				
4 HARNESX XTRA	3.36 lb ai/a	0	99	99	99
ROUNDUP WeatherMAX	22 fl oz/a				
AMS	3.7 % v/v				
ROUNDUP WeatherMAX	22 fl oz/a				
AMS	3.7 % v/v				
5 BICEP II MAGNUM	2.89 lb ai/a	0	99	99	99
TOUCHDOWN TOTAL	24 fl oz/a				
AMS	3.7 % v/v				
TOUCHDOWN TOTAL	24 fl oz/a				
AMS	3.7 % v/v				
6 CHECK UNTREATED		0	0	0	0
LSD (P=.05)		0.0	0.0	0.0	0.0
Standard Deviation		0.0	0.0	0.0	0.0
CV		0.0	0.0	0.0	0.0
Grand Mean		0.0	82.5	82.5	82.5
Bartlett's X2		0.0	0.0	0.0	0.0
P(Bartlett's X2)		.	.	.	.
Replicate F		0.000	0.000	0.000	0.000
Replicate Prob(F)		1.0000	1.0000	1.0000	1.0000
Treatment F		0.000	0.000	0.000	0.000
Treatment Prob(F)		1.0000	1.0000	1.0000	1.0000

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Weed Science Field Research

Pest Type		W Weed	W Weed	W Weed
Pest Code		CHEAL	SETFA	AMACH
Pest Name		Lambsquarters, commo	Giant foxtail	Smooth pigweed
Crop Code			ZEAMX	
BBCH Scale			BCOR	
Crop Name			Corn	
Rating Data Type		CONTROL	INJURY	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT
Trt-Eval Interval		2 WEEK	4 WEEK	4 WEEK
ARM Action Codes		P	P	P
Number of Decimals		0	0	0
Trt Treatment	Rate			
No. Name	Rate Unit	5	6	7
				8
1 KEYSTONE	1.35 qt/a	99	0	99
GF-1279	12 fl oz/a			
AMS	1.5 % v/v			
STARANE	0.66 pt/a			
2 KEYSTONE	1.35 qt/a	99	0	99
GF-1279	12 fl oz/a			
AMS	1.5 % v/v			
GF-1203	1.33 pt/a			
3 KEYSTONE	1.35 qt/a	99	0	99
GF-1279	12 fl oz/a			
AMS	1.5 % v/v			
HORNET	4 oz/a			
4 HARNESS XTRA	3.36 lb ai/a	99	0	99
ROUNDUP WeatherMAX	22 fl oz/a			
AMS	3.7 % v/v			
ROUNDUP WeatherMAX	22 fl oz/a			
AMS	3.7 % v/v			
5 BICEP II MAGNUM	2.89 lb ai/a	99	0	99
TOUCHDOWN TOTAL	24 fl oz/a			
AMS	3.7 % v/v			
TOUCHDOWN TOTAL	24 fl oz/a			
AMS	3.7 % v/v			
6 CHECK UNTREATED		0	0	0
LSD (P=.05)		0.0	0.0	0.0
Standard Deviation		0.0	0.0	0.0
CV		0.0	0.0	0.0
Grand Mean		82.5	0.0	82.5
Bartlett's X2		0.0	0.0	0.0
P(Bartlett's X2)		.	.	.
Replicate F		0.000	0.000	0.000
Replicate Prob(F)		1.0000	1.0000	1.0000
Treatment F		0.000	0.000	0.000
Treatment Prob(F)		1.0000	1.0000	1.0000

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Pest Type	W Weed	W Weed	W Weed		
Pest Code	AMBTR	CHEAL	SETFA		
Pest Name	Giant Ragweed	Lambsquarters, commo	Giant foxtail		
Crop Code			ZEAMX		
BBCH Scale			BCOR		
Crop Name			Corn		
Rating Data Type	CONTROL	CONTROL	INJURY		
Rating Unit	PERCENT	PERCENT	PERCENT		
Trt-Eval Interval	4 WEEK	4 WEEK	8 WEEK		
ARM Action Codes	P	P	P		
Number of Decimals	0	0	0		
Trt Treatment	Rate				
No. Name	Rate Unit	9	10		
			11		
			12		
1 KEYSTONE	1.35 qt/a	99	99	0	93
GF-1279	12 fl oz/a				
AMS	1.5 % v/v				
STARANE	0.66 pt/a				
2 KEYSTONE	1.35 qt/a	99	99	0	92
GF-1279	12 fl oz/a				
AMS	1.5 % v/v				
GF-1203	1.33 pt/a				
3 KEYSTONE	1.35 qt/a	99	99	0	91
GF-1279	12 fl oz/a				
AMS	1.5 % v/v				
HORNET	4 oz/a				
4 HARNESS XTRA	3.36 lb ai/a	99	99	0	98
ROUNDUP WeatherMAX	22 fl oz/a				
AMS	3.7 % v/v				
ROUNDUP WeatherMAX	22 fl oz/a				
AMS	3.7 % v/v				
5 BICEP II MAGNUM	2.89 lb ai/a	99	99	0	98
TOUCHDOWN TOTAL	24 fl oz/a				
AMS	3.7 % v/v				
TOUCHDOWN TOTAL	24 fl oz/a				
AMS	3.7 % v/v				
6 CHECK UNTREATED		0	0	0	0
LSD (P=.05)		0.0	0.0	0.0	8.1
Standard Deviation		0.0	0.0	0.0	4.4
CV		0.0	0.0	0.0	5.63
Grand Mean		82.5	82.5	0.0	78.61
Bartlett's X2		0.0	0.0	0.0	4.158
P(Bartlett's X2)		.	.	.	0.385
Replicate F		0.000	0.000	0.000	0.598
Replicate Prob(F)		1.0000	1.0000	1.0000	0.5682
Treatment F		0.000	0.000	0.000	228.343
Treatment Prob(F)		1.0000	1.0000	1.0000	0.0001

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Pest Type		W Weed	W Weed	W Weed
Pest Code		AMACH	AMBTR	CHEAL
Pest Name		Smooth pigweed	Giant Ragweed	Lambsquarters, commo
Crop Code				
BBCH Scale				
Crop Name				
Rating Data Type		CONTROL	CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT
Trt-Eval Interval		8 WEEK	8 WEEK	8 WEEK
ARM Action Codes		P	P	P
Number of Decimals		0	0	0
Trt Treatment	Rate			
No. Name	Rate Unit	13	14	15
1 KEYSTONE	1.35 qt/a	99	99	99
GF-1279	12 fl oz/a			
AMS	1.5 % v/v			
STARANE	0.66 pt/a			
2 KEYSTONE	1.35 qt/a	99	99	99
GF-1279	12 fl oz/a			
AMS	1.5 % v/v			
GF-1203	1.33 pt/a			
3 KEYSTONE	1.35 qt/a	99	99	99
GF-1279	12 fl oz/a			
AMS	1.5 % v/v			
HORNET	4 oz/a			
4 HARNESS XTRA	3.36 lb ai/a	99	99	99
ROUNDUP WeatherMAX	22 fl oz/a			
AMS	3.7 % v/v			
ROUNDUP WeatherMAX	22 fl oz/a			
AMS	3.7 % v/v			
5 BICEP II MAGNUM	2.89 lb ai/a	99	99	99
TOUCHDOWN TOTAL	24 fl oz/a			
AMS	3.7 % v/v			
TOUCHDOWN TOTAL	24 fl oz/a			
AMS	3.7 % v/v			
6 CHECK UNTREATED		0	0	0
LSD (P=.05)		0.0	0.0	0.0
Standard Deviation		0.0	0.0	0.0
CV		0.0	0.0	0.0
Grand Mean		82.5	82.5	82.5
Bartlett's X2		0.0	0.0	0.0
P(Bartlett's X2)		.	.	.
Replicate F		0.000	0.000	0.000
Replicate Prob(F)		1.0000	1.0000	1.0000
Treatment F		0.000	0.000	0.000
Treatment Prob(F)		1.0000	1.0000	1.0000

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

NO-TILL CORN III

Trial ID: C4013
Location: LEXINGTON, KY

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

General Trial Information

Study Director: CHARLES H. SLACK
Affiliation: UNIVERSITY OF KENTUCKY
Postal Code: 40546
Investigator: Charles H. Slack

Trial Location

City: LEXINGTON **Trial Status:** COMPLETE
State/Prov.: KENTUCKY
Postal Code: 40511 **Initiation Date:** 4-29-04
Directions:

Objectives:

Conclusions:

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC 64-11 RR
BBCH Scale: BCOR **Planting Date:** 4-29-04
Planting Method: ROW **Rate, Unit:** 28000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM/TRASHY **Soil Temperature, Unit:** 58 F
Soil Moisture: SLIGHTLY WET **Emergence Date:** 5-4-04

Pest Description

Pest 1 Type: W **Code:** SETFA *Setaria faberi*
Common Name: Giant Foxtail
Pest 2 Type: W **Code:** AMACH *Amaranthus hybridus*
Common Name: Smooth pigweed
Pest 3 Type: W **Code:** AMBTR *Ambrosia trifida*
Common Name: Giant Ragweed
Pest 4 Type: W **Code:** CHEAL *Chenopodium album*
Common Name: Lambsquarters, common

Site and Design

Plot Width, Unit: 5 FT **Site Type:** FIELD
Plot Length, Unit: 44 FT **Tillage Type:** NO-TILL
Replications: 3 **Study Design:** Randomized Complete Block

Trial Initiation Comments:

Field Prep./Maintenance:

Soil Description

% Sand: 6 **% OM:** 2.6 **Texture:** SILT LOAM
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY
% Clay: 32 **CEC:** 17 **Fert. Level:** EXCELLENT

Moisture Conditions

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

Application Description

	A		B
Application Date:	4-29-04		6-10-04
Time of Day:	3:00		1:00
Application Method:	SPRAY		SPRAY
Application Timing:	PRE		LP
Application Placement:	BROFOL		BROFOL
Air Temperature, Unit:	64 F		76 F
% Relative Humidity:	53		76
Wind Velocity, Unit:	3 MPH		3 MPH
Dew Presence (Y/N):	N		N
Soil Temperature, Unit:	58 F		74 F
Soil Moisture:	ADEQUATE		ADEQUATE
% Cloud Cover:	10		10

Crop Stage At Each Application

	A		B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR		ZEAMX BCOR
Stage Scale Used:	BBCH		BBCH
Height, Unit:			14 IN

Pest Stage At Each Application

	A		B
Pest 1 Code, Disc., Scale:	SETFA W		SETFA W
Height, Unit:	1 IN		4 IN
Pest 2 Code, Disc., Scale:	AMACH W		AMACH W
Height, Unit:	2 IN		5 IN
Pest 3 Code, Disc., Scale:	AMBTR W		AMBTR W
Height, Unit:	2 IN		6 IN
Pest 4 Code, Disc., Scale:	CHEAL W		CHEAL W
Height, Unit:	2 IN		5 IN

Application Equipment

	A		B
Appl. Equipment:	ATV		BACKPACK
Operating Pressure:	30		30
Pressure Unit:	PSI		PSI
Nozzle Type:	FLAT FAN		FLAT FAN
Nozzle Size:	8004 DG		8004 DG
Nozzle Spacing, Unit:	20 IN		20 IN
Boom Length, Unit:	5 FT		5 FT
Boom Height, Unit:	19 IN		35 IN
Ground Speed, Unit:	4 MPH		3.5 MPH
Carrier:	WATER		WATER
Spray Volume:	24		24
Volume Unit:	GPA		GPA
Propellant:	CO2		CO2

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

CORN POSTEMERGENCE

Trial ID: C4014
Location: LEXINGTON, KY

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

Pest Type	W Weed	W Weed	W Weed
Pest Code	SETFA	CHEAL	AMBTR
Pest Name	Giant foxtail Lambsquarters, commo Giant Ragweed		
Crop Code	ZEAMX		
BBCH Scale	BCOR		
Crop Name	Corn		
Rating Data Type	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt Treatment	Rate	Rate Unit	1	2	3	4
No. Name						
1 BALANCE PRO	0.047	lb ai/a	0	98	98	97
OPTION	0.033	lb ai/a				
DISTINCT	0.09	lb ai/a				
LIQUID N	1.5	qt/a				
MSO	1.5	pt/a				
2 BALANCE PRO	0.07	lb ai/a	0	98	96	87
DEFINE	0.375	lb ai/a				
AATREX	1.5	lb ai/a				
3 BALANCE PRO	0.078	lb ai/a	0	98	97	92
DEFINE	0.375	lb ai/a				
AATREX	1.5	lb ai/a				
4 DEFINE	0.655	lb ai/a	0	98	98	98
AATREX	1	lb ai/a				
BUCTRIL/ATRA	0.75	lb ai/a				
CALLISTO	0.031	lb ai/a				
5 OPTION	0.033	lb ai/a	0	98	98	95
DISTINCT	0.175	lb ai/a				
LIQUID N	1.5	qt/a				
MSO	1.5	pt/a				
6 EQUIP CORN HERBICIDE	0.03	lb ai/a	0	98	98	97
DISTINCT	0.175	lb ai/a				
LIQUID N	1.5	qt/a				
MSO	1.5	pt/a				
7 OPTION	0.033	lb ai/a	0	98	97	93
LIQUID N	1.5	qt/a				
MSO	1.5	pt/a				
8 EQUIP CORN HERBICIDE	0.03	lb ai/a	0	98	98	95
LIQUID N	1.5	qt/a				
MSO	1.5	pt/a				
9 OPTION	0.033	lb ai/a	0	98	98	97
DISTINCT	0.09	lb ai/a				
LIQUID N	1.5	qt/a				
MSO	1.5	pt/a				
10 EQUIP CORN HERBICIDE	0.03	lb ai/a	0	98	98	96
DISTINCT	0.09	lb ai/a				
LIQUID N	1.5	qt/a				
MSO	1.5	pt/a				
11 OPTION	0.033	lb ai/a	0	98	98	98
CALLISTO	0.047	lb ai/a				
LIQUID N	1.5	qt/a				
MSO	1.5	pt/a				
12 EQUIP CORN HERBICIDE	0.03	lb ai/a	0	98	98	98
CALLISTO	0.047	lb ai/a				
LIQUID N	1.5	qt/a				
MSO	1.5	pt/a				
13 CINCH ATZ	2.1	qt/a	0	98	96	82
14 CINCH ATZ	1.1	qt/a	0	98	97	85
STEADFAST ATZ	14	oz/a				
COC	1	qt/a				
AMS	2	lb/a				
15 BASIS	0.75	oz/a	0	72	93	87
PRINCEP	1	qt/a				
AATREX	1	qt/a				

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Weed Science Field Research

Pest Type		W Weed		W Weed		W Weed
Pest Code		SETFA		CHEAL		AMBTR
Pest Name		Giant foxtail	Lambsquarters,	commo	Giant Ragweed	
Crop Code		ZEAMX				
BBCH Scale		BCOR				
Crop Name		Corn				
Rating Data Type		INJURY	CONTROL		CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT		PERCENT	PERCENT
Trt-Eval Interval		2 WEEK	2 WEEK		2 WEEK	2 WEEK
ARM Action Codes		P	P		P	P
Number of Decimals		0	0		0	0

Trt Treatment	Rate	Unit	1	2	3	4
16 AATREX	1	qt/a	0	98		98
STEADFAST	0.75	oz/a				96
AATREX	1.5	lb ai/a				
CALLISTO	1.5	oz/a				
COC	1	qt/a				
AMS	2	lb/a				
17 AATREX	1	qt/a	0	98		98
STEADFAST	0.75	oz/a				
AATREX	1.5	qt/a				
DISTINCT	2	oz/a				
COC	1	qt/a				
AMS	2	lb/a				
18 CHECK UNTREATED			0	0		0
LSD (P=.05)			0.0	1.1		1.8
Standard Deviation			0.0	0.7		1.1
CV			0.0	0.75		1.16
Grand Mean			0.0	91.09		91.91
Bartlett's X2			0.0	0.0		1.016
P(Bartlett's X2)			.	.		0.961
Replicate F			0.000	1.000		3.537
Replicate Prob(F)			1.0000	0.3784		0.0402
Treatment F			0.000	3597.782		1393.017
Treatment Prob(F)			1.0000	0.0001		0.0001

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Weed Science Field Research

Pest Type	W Weed	W Weed	W Weed
Pest Code	IPOSS	SETFA	CHEAL
Pest Name	Morning glory	Giant foxtail	Lambsquarters, commo
Crop Code		ZEAMX	
BBCH Scale		BCOR	
Crop Name		Corn	
Rating Data Type	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEK	4 WEEK	4 WEEK
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt Treatment	Rate	Rate	5	6	7	8
No. Name	Rate	Unit				
1 BALANCE PRO	0.047	lb ai/a	97	0	98	98
OPTION	0.033	lb ai/a				
DISTINCT	0.09	lb ai/a				
LIQUID N	1.5	qt/a				
MSO	1.5	pt/a				
2 BALANCE PRO	0.07	lb ai/a	90	0	98	96
DEFINE	0.375	lb ai/a				
AATREX	1.5	lb ai/a				
3 BALANCE PRO	0.078	lb ai/a	92	0	98	97
DEFINE	0.375	lb ai/a				
AATREX	1.5	lb ai/a				
4 DEFINE	0.655	lb ai/a	98	0	98	98
AATREX	1	lb ai/a				
BUCTRIL/ATRA	0.75	lb ai/a				
CALLISTO	0.031	lb ai/a				
5 OPTION	0.033	lb ai/a	95	0	95	97
DISTINCT	0.175	lb ai/a				
LIQUID N	1.5	qt/a				
MSO	1.5	pt/a				
6 EQUIP CORN HERBICIDE	0.03	lb ai/a	94	0	98	98
DISTINCT	0.175	lb ai/a				
LIQUID N	1.5	qt/a				
MSO	1.5	pt/a				
7 OPTION	0.033	lb ai/a	93	0	98	96
LIQUID N	1.5	qt/a				
MSO	1.5	pt/a				
8 EQUIP CORN HERBICIDE	0.03	lb ai/a	95	0	98	98
LIQUID N	1.5	qt/a				
MSO	1.5	pt/a				
9 OPTION	0.033	lb ai/a	96	0	98	98
DISTINCT	0.09	lb ai/a				
LIQUID N	1.5	qt/a				
MSO	1.5	pt/a				
10 EQUIP CORN HERBICIDE	0.03	lb ai/a	93	0	98	98
DISTINCT	0.09	lb ai/a				
LIQUID N	1.5	qt/a				
MSO	1.5	pt/a				
11 OPTION	0.033	lb ai/a	98	0	98	98
CALLISTO	0.047	lb ai/a				
LIQUID N	1.5	qt/a				
MSO	1.5	pt/a				
12 EQUIP CORN HERBICIDE	0.03	lb ai/a	98	0	98	98
CALLISTO	0.047	lb ai/a				
LIQUID N	1.5	qt/a				
MSO	1.5	pt/a				
13 CINCH ATZ	2.1	qt/a	90	0	98	96
14 CINCH ATZ	1.1	qt/a	90	0	98	97
STEADFAST ATZ	14	oz/a				
COC	1	qt/a				
AMS	2	lb/a				
15 BASIS	0.75	oz/a	89	0	65	93
PRINCEP	1	qt/a				
AATREX	1	qt/a				

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Pest Type	W Weed	W Weed	W Weed
Pest Code	IPOSS	SETFA	CHEAL
Pest Name	Morning glory	Giant foxtail	Lambsquarters, commo
Crop Code		ZEAMX	
BBCH Scale		BCOR	
Crop Name		Corn	
Rating Data Type	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEK	4 WEEK	4 WEEK
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt Treatment	Rate	Unit	5	6	7	8
16 AATREX	1	qt/a	96	0	95	98
STEADFAST	0.75	oz/a				
AATREX	1.5	lb ai/a				
CALLISTO	1.5	oz/a				
COC	1	qt/a				
AMS	2	lb/a				
17 AATREX	1	qt/a	95	0	98	98
STEADFAST	0.75	oz/a				
AATREX	1.5	qt/a				
DISTINCT	2	oz/a				
COC	1	qt/a				
AMS	2	lb/a				
18 CHECK UNTREATED			0	0	0	0
LSD (P=.05)			3.5	0.0	5.8	1.8
Standard Deviation			2.1	0.0	3.5	1.1
CV			2.36	0.0	3.84	1.2
Grand Mean			88.91	0.0	90.43	91.8
Bartlett's X2			6.975	0.0	3.06	1.058
P(Bartlett's X2)			0.64	.	0.217	0.983
Replicate F			5.318	0.000	1.091	4.623
Replicate Prob(F)			0.0098	1.0000	0.3473	0.0168
Treatment F			342.172	0.000	141.900	1296.584
Treatment Prob(F)			0.0001	1.0000	0.0001	0.0001

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Pest Type		W Weed	W Weed		W Weed	
Pest Code		AMBTR	IPOSS		SETFA	
Pest Name		Giant Ragweed	Morning glory		Giant foxtail	
Crop Code				ZEAMX		
BBCH Scale				BCOR		
Crop Name				Corn		
Rating Data Type		CONTROL	CONTROL	INJURY	CONTROL	
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	
Trt-Eval Interval		4 WEEK	4 WEEK	8 WEEK	8 WEEK	
ARM Action Codes		P	P	P	P	
Number of Decimals		0	0	0	0	
Trt Treatment	Rate	Rate				
No. Name	Rate Unit	Unit	9	10	11	12
1 BALANCE PRO	0.047 lb ai/a		94	93	0	98
OPTION	0.033 lb ai/a					
DISTINCT	0.09 lb ai/a					
LIQUID N	1.5 qt/a					
MSO	1.5 pt/a					
2 BALANCE PRO	0.07 lb ai/a		67	82	0	98
DEFINE	0.375 lb ai/a					
AATREX	1.5 lb ai/a					
3 BALANCE PRO	0.078 lb ai/a		85	83	0	98
DEFINE	0.375 lb ai/a					
AATREX	1.5 lb ai/a					
4 DEFINE	0.655 lb ai/a		97	96	0	98
AATREX	1 lb ai/a					
BUCTRIL/ATRA	0.75 lb ai/a					
CALLISTO	0.031 lb ai/a					
5 OPTION	0.033 lb ai/a		93	92	0	95
DISTINCT	0.175 lb ai/a					
LIQUID N	1.5 qt/a					
MSO	1.5 pt/a					
6 EQUIP CORN HERBICIDE	0.03 lb ai/a		90	87	0	97
DISTINCT	0.175 lb ai/a					
LIQUID N	1.5 qt/a					
MSO	1.5 pt/a					
7 OPTION	0.033 lb ai/a		87	83	0	98
LIQUID N	1.5 qt/a					
MSO	1.5 pt/a					
8 EQUIP CORN HERBICIDE	0.03 lb ai/a		88	88	0	98
LIQUID N	1.5 qt/a					
MSO	1.5 pt/a					
9 OPTION	0.033 lb ai/a		93	90	0	98
DISTINCT	0.09 lb ai/a					
LIQUID N	1.5 qt/a					
MSO	1.5 pt/a					
10 EQUIP CORN HERBICIDE	0.03 lb ai/a		92	87	0	97
DISTINCT	0.09 lb ai/a					
LIQUID N	1.5 qt/a					
MSO	1.5 pt/a					
11 OPTION	0.033 lb ai/a		96	96	0	98
CALLISTO	0.047 lb ai/a					
LIQUID N	1.5 qt/a					
MSO	1.5 pt/a					
12 EQUIP CORN HERBICIDE	0.03 lb ai/a		97	97	0	98
CALLISTO	0.047 lb ai/a					
LIQUID N	1.5 qt/a					
MSO	1.5 pt/a					
13 CINCH ATZ	2.1 qt/a		70	80	0	98
14 CINCH ATZ	1.1 qt/a		77	85	0	98
STEADFAST ATZ	14 oz/a					
COC	1 qt/a					
AMS	2 lb/a					
15 BASIS	0.75 oz/a		77	83	0	65
PRINCEP	1 qt/a					
AATREX	1 qt/a					

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	IPOSS		SETFA
Pest Name	Giant Ragweed	Morning glory		Giant foxtail
Crop Code			ZEAMX	
BBCH Scale			BCOR	
Crop Name			Corn	
Rating Data Type	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	4 WEEK	4 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt Treatment	Rate	Rate					
No. Name	Rate	Unit	9	10	11	12	
16 AATREX	1	qt/a	93		94	0	94
STEADFAST	0.75	oz/a					
AATREX	1.5	lb ai/a					
CALLISTO	1.5	oz/a					
COC	1	qt/a					
AMS	2	lb/a					
17 AATREX	1	qt/a	95		93	0	98
STEADFAST	0.75	oz/a					
AATREX	1.5	qt/a					
DISTINCT	2	oz/a					
COC	1	qt/a					
AMS	2	lb/a					
18 CHECK UNTREATED			0		0	0	0
LSD (P=.05)			10.0		7.3	0.0	5.8
Standard Deviation			6.0		4.4	0.0	3.5
CV			7.25		5.19	0.0	3.84
Grand Mean			82.78		83.85	0.0	90.26
Bartlett's X2			21.236		16.4	0.0	10.867
P(Bartlett's X2)			0.17		0.356	.	0.028*
Replicate F			2.360		5.263	0.000	1.174
Replicate Prob(F)			0.1097		0.0102	1.0000	0.3212
Treatment F			42.650		73.916	0.000	141.349
Treatment Prob(F)			0.0001		0.0001	1.0000	0.0001

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Pest Type			W Weed	W Weed	W Weed
Pest Code			CHEAL	AMBTR	IPOSS
Pest Name			Lambsquarters,	commo Giant Ragweed	Morning glory
Crop Code					
BBCH Scale					
Crop Name					
Rating Data Type			CONTROL	CONTROL	CONTROL
Rating Unit			PERCENT	PERCENT	PERCENT
Trt-Eval Interval			8 WEEK	8 WEEK	8 WEEK
ARM Action Codes			P	P	P
Number of Decimals			0	0	0
Trt Treatment	Rate	Rate			
No. Name	Rate	Unit	13	14	15
1 BALANCE PRO	0.047	lb ai/a	98	93	85
OPTION	0.033	lb ai/a			
DISTINCT	0.09	lb ai/a			
LIQUID N	1.5	qt/a			
MSO	1.5	pt/a			
2 BALANCE PRO	0.07	lb ai/a	96	57	77
DEFINE	0.375	lb ai/a			
AATREX	1.5	lb ai/a			
3 BALANCE PRO	0.078	lb ai/a	97	77	72
DEFINE	0.375	lb ai/a			
AATREX	1.5	lb ai/a			
4 DEFINE	0.655	lb ai/a	98	97	96
AATREX	1	lb ai/a			
BUCTRIL/ATRA	0.75	lb ai/a			
CALLISTO	0.031	lb ai/a			
5 OPTION	0.033	lb ai/a	97	88	92
DISTINCT	0.175	lb ai/a			
LIQUID N	1.5	qt/a			
MSO	1.5	pt/a			
6 EQUIP CORN HERBICIDE	0.03	lb ai/a	98	90	87
DISTINCT	0.175	lb ai/a			
LIQUID N	1.5	qt/a			
MSO	1.5	pt/a			
7 OPTION	0.033	lb ai/a	96	82	83
LIQUID N	1.5	qt/a			
MSO	1.5	pt/a			
8 EQUIP CORN HERBICIDE	0.03	lb ai/a	98	83	83
LIQUID N	1.5	qt/a			
MSO	1.5	pt/a			
9 OPTION	0.033	lb ai/a	98	89	80
DISTINCT	0.09	lb ai/a			
LIQUID N	1.5	qt/a			
MSO	1.5	pt/a			
10 EQUIP CORN HERBICIDE	0.03	lb ai/a	98	88	80
DISTINCT	0.09	lb ai/a			
LIQUID N	1.5	qt/a			
MSO	1.5	pt/a			
11 OPTION	0.033	lb ai/a	98	96	96
CALLISTO	0.047	lb ai/a			
LIQUID N	1.5	qt/a			
MSO	1.5	pt/a			
12 EQUIP CORN HERBICIDE	0.03	lb ai/a	98	97	94
CALLISTO	0.047	lb ai/a			
LIQUID N	1.5	qt/a			
MSO	1.5	pt/a			
13 CINCH ATZ	2.1	qt/a	96	63	70
14 CINCH ATZ	1.1	qt/a	97	67	79
STEADFAST ATZ	14	oz/a			
COC	1	qt/a			
AMS	2	lb/a			
15 BASIS	0.75	oz/a	93	72	77
PRINCEP	1	qt/a			
AATREX	1	qt/a			

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Pest Type		W Weed	W Weed	W Weed
Pest Code		CHEAL	AMBTR	IPOSS
Pest Name		Lambsquarters, commo Giant Ragweed Morning glory		
Crop Code				
BBCH Scale				
Crop Name				
Rating Data Type		CONTROL	CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT
Trt-Eval Interval		8 WEEK	8 WEEK	8 WEEK
ARM Action Codes		P	P	P
Number of Decimals		0	0	0
Trt Treatment	Rate	13	14	15
No. Name	Unit			
16 AATREX	1 qt/a		98	92
STEADFAST	0.75 oz/a			
AATREX	1.5 lb ai/a			
CALLISTO	1.5 oz/a			
COC	1 qt/a			
AMS	2 lb/a			
17 AATREX	1 qt/a		98	95
STEADFAST	0.75 oz/a			
AATREX	1.5 qt/a			
DISTINCT	2 oz/a			
COC	1 qt/a			
AMS	2 lb/a			
18 CHECK UNTREATED		0	0	0
LSD (P=.05)		1.8	15.2	8.0
Standard Deviation		1.1	9.1	4.8
CV		1.2	11.52	6.05
Grand Mean		91.8	79.22	79.59
Bartlett's X2		1.058	26.981	11.675
P(Bartlett's X2)		0.983	0.042*	0.632
Replicate F		4.623	5.949	1.977
Replicate Prob(F)		0.0168	0.0061	0.1541
Treatment F		1296.584	19.461	59.400
Treatment Prob(F)		0.0001	0.0001	0.0001

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CORN POSTEMERGENCE

Trial ID: C4014
Location: LEXINGTON, KYStudy Director: CHARLES H. SLACK
Investigator: Charles H. Slack**General Trial Information**Study Director: CHARLES H. SLACK
Affiliation: UNIVERSITY OF KENTUCKY
Postal Code: 40546
Investigator: Charles H. Slack**Trial Location**City: LEXINGTON
State/Prov.: KENTUCKY
Postal Code: 40511
Directions:
Trial Status: COMPLETE
Initiation Date: 4-27-04

Objectives:

Conclusions:

Crop DescriptionCrop 1: ZEAMX Zea mays
Variety: GARST 8541 IT
BBCH Scale: BCOR
Planting Method: ROW
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM
Soil Moisture: SLIGHTLY WET
Corn
Planting Date: 4-27-04
Rate, Unit: 28000 S/A
Soil Temperature, Unit: 57 F
Emergence Date: 5-2-04**Pest Description**Pest 1 Type: W Code: SETFA Setaria faberi
Common Name: Giant Foxtail
Pest 2 Type: W Code: CHEAL Chenopodium album
Common Name: Lambsquarters, common
Pest 3 Type: W Code: AMBTR Ambrosia trifida
Common Name: Giant Ragweed
Pest 4 Type: W Code: IPOSS Ipomoea sp.
Common Name: Morning glory**Site and Design**Plot Width, Unit: 5 FT
Plot Length, Unit: 44 FT
Replications: 3
Site Type: FIELD
Tillage Type: CONVENTIONAL-TILL
Study Design: Randomized Complete Block

Trial Initiation Comments:

Field Prep./Maintenance:

Soil Description% Sand: 6 % OM: 2.6
% Silt: 62 pH: 6.4
% Clay: 32 CEC: 17
Texture: SILT LOAM
Soil Name: MAURY
Fert. Level: EXCELLENT**Moisture Conditions**Overall Moisture Conditions: NORMAL
Closest Weather Station: SPINDLETOP
Distance: 1.5 Unit: MI

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Weed Science Field Research

Application Description

	A		B		C
Application Date:	4-29-04		5-21-04		5-27-04
Time of Day:	10:00		1:00		3:00
Application Method:	SPRAY		SPRAY		SPRAY
Application Timing:	PRE		MP		12C
Application Placement:	BROSOI		BROFOL		BROFOL
Air Temperature, Unit:	64 F		76 F		71 F
% Relative Humidity:	53		81		83
Wind Velocity, Unit:	3 MPH		3 MPH		4 MPH
Dew Presence (Y/N):	N		N		N
Soil Temperature, Unit:	62 F		74 F		72 F
Soil Moisture:	ADEQUATE		ADEQUATE		ADEQUATE
% Cloud Cover:	10		10		20

Crop Stage At Each Application

	A		B		C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR		ZEAMX BCOR		ZEAMX BCOR
Stage Scale Used:	BBCH		BBCH		BBCH
Height, Unit:			10 IN		12 IN

Pest Stage At Each Application

	A		B		C
Pest 1 Code, Disc., Scale:	SETFA W		SETFA W		SETFA W
Height, Unit:			3 IN		4 IN
Pest 2 Code, Disc., Scale:	CHEAL W		CHEAL W		CHEAL W
Height, Unit:			3 IN		4 IN
Pest 3 Code, Disc., Scale:	AMBTR W		AMBTR W		AMBTR W
Height, Unit:			4 IN		5 IN
Pest 4 Code, Disc., Scale:	IPOSS W		IPOSS W		IPOSS W
Height, Unit:			3 IN		3.5 IN

Application Equipment

	A		B		C
Appl. Equipment:	ATV		BACKPACK		BACKPACK
Operating Pressure:	30		30		30
Pressure Unit:	PSI		PSI		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:	5 FT		5 FT		5 FT
Boom Height, Unit:	19 IN		28 IN		30 IN
Ground Speed, Unit:	4 MPH		3.5 MPH		3.5 MPH
Carrier:	WATER		WATER		WATER
Spray Volume:	24		24		24
Volume Unit:	GPA		GPA		GPA
Propellant:	CO2		CO2		CO2

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

CORN POSTEMERGENCE II

Trial ID: C4015
Location: LEXINGTON, KY

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

Pest Type		W Weed		W Weed		W Weed
Pest Code		SETFA		CHEAL		AMBTR
Pest Name		Giant foxtail Lambsquarters, commo			Giant Ragweed	
Crop Code	ZEAMX					ZEAMX
BBCH Scale	BCOR					BCOR
Crop Name	Corn					Corn
Rating Data Type	INJURY	PERCENT		PERCENT	PERCENT	PERCENT
Rating Unit	CONTROL	CONTROL		CONTROL	CONTROL	CONTROL
Trt-Eval Interval	2 WEEK	2 WEEK		2 WEEK	2 WEEK	4 WEEK
ARM Action Codes	P	P		P	P	P
Number of Decimals	0	0		0	0	0

Trt No.	Treatment Name	Rate	Unit	1	2	3	4	5
1	MANA-Met	0.094	lb ai/a	13	45	93	60	3
	ACTIVATOR 90	0.25	% v/v					
2	MANA-Met	0.188	lb ai/a	18	48	93	68	10
	ACTIVATOR 90	0.25	% v/v					
3	SENCOR	0.094	lb ai/a	8	45	92	50	7
	ACTIVATOR 90	0.25	% v/v					
4	SENCOR	0.188	lb ai/a	13	55	95	58	7
	ACTIVATOR 90	0.25	% v/v					
5	MANA-Met	0.094	lb ai/a	13	47	95	92	3
	BASAGRAN	0.5	lb ai/a					
	ACTIVATOR 90	0.25	% v/v					
6	MANA-Met	0.188	lb ai/a	27	40	95	93	17
	BASAGRAN	0.5	lb ai/a					
	ACTIVATOR 90	0.25	% v/v					
7	SENCOR	0.094	lb ai/a	17	30	95	95	13
	BASAGRAN	0.5	lb ai/a					
	ACTIVATOR 90	0.25	% v/v					
8	SENCOR	0.188	lb ai/a	30	24	95	95	20
	BASAGRAN	0.5	lb ai/a					
	ACTIVATOR 90	0.25	% v/v					
9	CHECK UNTREATED			0	0	0	0	0
10	CHECK UNTREATED			0	0	0	0	0
	LSD (P=.05)			12.5	35.2	2.5	24.9	11.0
	Standard Deviation			7.3	20.5	1.5	14.5	6.4
	CV			52.21	61.42	1.94	23.75	80.15
	Grand Mean			14.0	33.4	75.33	61.17	8.0
	Bartlett's X2			5.704	6.777	0.0	13.221	2.312
	P(Bartlett's X2)			0.457	0.452	1.00	0.021*	0.889
	Replicate F			7.066	12.181	2.739	5.132	0.730
	Replicate Prob(F)			0.0054	0.0005	0.0915	0.0172	0.4958
	Treatment F			5.414	2.779	2222.435	18.825	3.459
	Treatment Prob(F)			0.0012	0.0310	0.0001	0.0001	0.0120

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Pest Type	W Weed	W Weed	W Weed	
Pest Code	SETFA	CHEAL	AMBTR	
Pest Name	Giant foxtail Lambsquarters, commo Giant Ragweed			
Crop Code				ZEAMX
BBCH Scale				BCOR
Crop Name				Corn
Rating Data Type	PERCENT	PERCENT	PERCENT	PERCENT
Rating Unit	CONTROL	CONTROL	CONTROL	CONTROL
Trt-Eval Interval	4 WEEK	4 WEEK	4 WEEK	8 WEEK
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0
Trt Treatment	Rate			
No. Name	Rate Unit	6	7	8 9
1 MANA-Met	0.094 lb ai/a	38	93	27 0
ACTIVATOR 90	0.25 % v/v			
2 MANA-Met	0.188 lb ai/a	42	93	50 0
ACTIVATOR 90	0.25 % v/v			
3 SENCOR	0.094 lb ai/a	17	92	27 0
ACTIVATOR 90	0.25 % v/v			
4 SENCOR	0.188 lb ai/a	32	95	27 0
ACTIVATOR 90	0.25 % v/v			
5 MANA-Met	0.094 lb ai/a	37	95	77 3
BASAGRAN	0.5 lb ai/a			
ACTIVATOR 90	0.25 % v/v			
6 MANA-Met	0.188 lb ai/a	30	95	90 0
BASAGRAN	0.5 lb ai/a			
ACTIVATOR 90	0.25 % v/v			
7 SENCOR	0.094 lb ai/a	17	95	85 0
BASAGRAN	0.5 lb ai/a			
ACTIVATOR 90	0.25 % v/v			
8 SENCOR	0.188 lb ai/a	10	95	88 0
BASAGRAN	0.5 lb ai/a			
ACTIVATOR 90	0.25 % v/v			
9 CHECK UNTREATED		0	0	0 0
10 CHECK UNTREATED		0	0	0 0
LSD (P=.05)		40.7	2.5	20.6 3.1
Standard Deviation		23.7	1.5	12.0 1.8
CV		107.06	1.94	25.55 547.72
Grand Mean		22.17	75.33	47.03 0.33
Bartlett's X2		10.385	0.0	9.641 0.0
P(Bartlett's X2)		0.109	1.00	0.21 .
Replicate F		4.360	2.739	11.125 1.000
Replicate Prob(F)		0.0286	0.0915	0.0007 0.3874
Treatment F		1.299	2222.435	26.712 1.000
Treatment Prob(F)		0.3033	0.0001	0.0001 0.4742

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Pest Type	W Weed	W Weed	W Weed
Pest Code	SETFA	CHEAL	AMBTR
Pest Name	Giant foxtail Lambsquarters, commo Giant Ragweed		
Crop Code			
BBCH Scale			
Crop Name			
Rating Data Type	PERCENT	PERCENT	PERCENT
Rating Unit	CONTROL	CONTROL	CONTROL
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt Treatment	Rate				
No. Name	Rate	Unit	10	11	12
1 MANA-Met	0.094	lb ai/a	38	93	10
ACTIVATOR 90	0.25	% v/v			
2 MANA-Met	0.188	lb ai/a	42	93	27
ACTIVATOR 90	0.25	% v/v			
3 SENCOR	0.094	lb ai/a	17	92	13
ACTIVATOR 90	0.25	% v/v			
4 SENCOR	0.188	lb ai/a	25	95	10
ACTIVATOR 90	0.25	% v/v			
5 MANA-Met	0.094	lb ai/a	37	95	59
BASAGRAN	0.5	lb ai/a			
ACTIVATOR 90	0.25	% v/v			
6 MANA-Met	0.188	lb ai/a	20	95	78
BASAGRAN	0.5	lb ai/a			
ACTIVATOR 90	0.25	% v/v			
7 SENCOR	0.094	lb ai/a	13	95	70
BASAGRAN	0.5	lb ai/a			
ACTIVATOR 90	0.25	% v/v			
8 SENCOR	0.188	lb ai/a	10	95	75
BASAGRAN	0.5	lb ai/a			
ACTIVATOR 90	0.25	% v/v			
9 CHECK UNTREATED			0	0	0
10 CHECK UNTREATED			0	0	0
LSD (P=.05)			38.7	2.5	15.9
Standard Deviation			22.5	1.5	9.3
CV			111.81	1.94	27.04
Grand Mean			20.17	75.33	34.27
Bartlett's X2			18.449	0.0	5.082
P(Bartlett's X2)			0.005*	1.00	0.65
Replicate F			4.555	2.739	10.991
Replicate Prob(F)			0.0251	0.0915	0.0008
Treatment F			1.353	2222.435	36.994
Treatment Prob(F)			0.2789	0.0001	0.0001

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CORN POSTEMERGENCE II

Trial ID: C4015
Location: LEXINGTON, KY

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

General Trial Information

Study Director: CHARLES H. SLACK
Affiliation: UNIVERSITY OF KENTUCKY
Postal Code: 40546
Investigator: Charles H. Slack

Trial Location

City: LEXINGTON **Trial Status:** COMPLETE
State/Prov.: KENTUCKY
Postal Code: 40511 **Initiation Date:** 4-27-04
Directions:

Objectives:**Conclusions:****Crop Description**

Crop 1: ZEAMX Zea mays Corn
Variety: GARST 8541 IT
BBCH Scale: BCOR **Planting Date:** 4-27-04
Planting Method: ROW **Rate, Unit:** 28000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM **Soil Temperature, Unit:** 57 F
Soil Moisture: SLIGHTLY WET **Emergence Date:** 5-2-04

Pest Description

Pest 1 Type: W **Code:** SETFA Setaria faberi
Common Name: Giant Foxtail
Pest 2 Type: W **Code:** CHEAL Chenopodium album
Common Name: Lambsquarters, common
Pest 3 Type: W **Code:** AMBTR Ambrosia trifida
Common Name: Giant Ragweed

Site and Design

Plot Width, Unit: 5 FT **Site Type:** FIELD
Plot Length, Unit: 44 FT **Tillage Type:** CONVENTIONAL-TILL
Replications: 3 **Study Design:** Randomized Complete Block

Trial Initiation Comments:**Field Prep./Maintenance:****Soil Description**

% Sand: 6 **% OM:** 2.6 **Texture:** SILT LOAM
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY
% Clay: 32 **CEC:** 17 **Fert. Level:** EXCELLENT

Moisture Conditions

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

Application Description**A**

Application Date: 5-20-04
Time of Day: 10:00
Application Method: SPRAY
Application Timing: EP
Application Placement: BROFOL
Air Temperature, Unit: 75 F
% Relative Humidity: 81
Wind Velocity, Unit: 4 MPH
Dew Presence (Y/N): N
Soil Temperature, Unit: 73 F
Soil Moisture: ADEQUATE
% Cloud Cover: 10

Crop Stage At Each Application**A**

Crop 1 Code, BBCH Scale: ZEAMX BCOR
Stage Scale Used: BBCH
Height, Unit: 4 IN

Pest Stage At Each Application**A**

Pest 1 Code, Disc., Scale: SETFA W
Height, Unit: 4 IN
Pest 2 Code, Disc., Scale: CHEAL W
Height, Unit: 3 IN
Pest 3 Code, Disc., Scale: AMBTR W
Height, Unit: 4 IN

Application Equipment**A**

Appl. Equipment: BACKPACK
Operating Pressure: 30
Pressure Unit: PSI
Nozzle Type: FLAT FAN
Nozzle Size: 8004 DG
Nozzle Spacing, Unit: 20 IN
Boom Length, Unit: 5 FT
Boom Height, Unit: 25 IN
Ground Speed, Unit: 3.5 MPH
Carrier: WATER
Spray Volume: 24
Volume Unit: GPA
Propellant: CO2

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CORN POSTEMERGENCE JOHNSONGRASS

Trial ID: C4017
Location: LEXINGTON, KY

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

Pest Type		W Weed		W Weed
Pest Code		SORHA		SORHA
Pest Name		Johnson grass		Johnson grass
Crop Code	ZEAMX		ZEAMX	ZEAMX
BBCH Scale	BCOR		BCOR	BCOR
Crop Name	Corn		Corn	Corn
Rating Data Type	INJURY	CONTROL	INJURY	CONTROL INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT PERCENT
Trt-Eval Interval	2 WEEK	2 WEEK	4 WEEK	4 WEEK 8 WEEK
ARM Action Codes	P	P	P	P P
Number of Decimals	0	0	0	0 0

Trt Treatment No. Name	Rate	Rate Unit	1	2	3	4	5
1 OPTION	0.033	lb ai/a	0	96	0	96	0
LIQUID N	1.5	qt/a					
MSO	1.5	pt/a					
2 EQUIP CORN HERBICIDE	0.03	lb ai/a	0	98	0	98	0
LIQUID N	1.5	qt/a					
MSO	1.5	pt/a					
3 OPTION	0.033	lb ai/a	0	99	0	99	0
DISTINCT	0.09	lb ai/a					
LIQUID N	1.5	qt/a					
MSO	1.5	pt/a					
4 EQUIP CORN HERBICIDE	0.03	lb ai/a	0	99	0	99	0
DISTINCT	0.09	lb ai/a					
LIQUID N	1.5	qt/a					
MSO	1.5	pt/a					
5 OPTION	0.033	lb ai/a	0	99	0	99	0
CALLISTO	0.047	lb ai/a					
LIQUID N	1.5	qt/a					
MSO	1.5	pt/a					
6 EQUIP CORN HERBICIDE	0.03	lb ai/a	0	99	0	99	0
CALLISTO	0.047	lb ai/a					
LIQUID N	1.5	qt/a					
MSO	1.5	pt/a					
7 CHECK UNTREATED			0	0	0	0	0
8 ROUNDUP WeatherMAX	22	fl oz/a	0	99	0	99	0
AMS	3.7	% v/v					
9 TOUCHDOWN TOTAL	1	lb ai/a	0	99	0	99	0
AMS	3.7	% v/v					
10 CHECK UNTREATED			0	0	0	0	0
LSD (P=.05)			0.0	1.0	0.0	1.0	0.0
Standard Deviation			0.0	0.6	0.0	0.6	0.0
CV			0.0	0.78	0.0	0.78	0.0
Grand Mean			0.0	78.8	0.0	78.8	0.0
Bartlett's X2			0.0	3.257	0.0	3.257	0.0
P(Bartlett's X2)			.	0.196	.	0.196	.
Replicate F			0.000	0.802	0.000	0.802	0.000
Replicate Prob(F)			1.0000	0.4638	1.0000	0.4638	1.0000
Treatment F			0.000	13839.645	0.000	13839.645	0.000
Treatment Prob(F)			1.0000	0.0001	1.0000	0.0001	1.0000

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Pest Type	W Weed
Pest Code	SORHA
Pest Name	Johnson grass
Crop Code	
BBCH Scale	
Crop Name	
Rating Data Type	CONTROL
Rating Unit	PERCENT
Trt-Eval Interval	8 WEEK
ARM Action Codes	P
Number of Decimals	0

Trt Treatment	Rate	Rate	6
No. Name	Rate	Unit	
1 OPTION	0.033	lb ai/a	96
LIQUID N	1.5	qt/a	
MSO	1.5	pt/a	
2 EQUIP CORN HERBICIDE	0.03	lb ai/a	98
LIQUID N	1.5	qt/a	
MSO	1.5	pt/a	
3 OPTION	0.033	lb ai/a	99
DISTINCT	0.09	lb ai/a	
LIQUID N	1.5	qt/a	
MSO	1.5	pt/a	
4 EQUIP CORN HERBICIDE	0.03	lb ai/a	99
DISTINCT	0.09	lb ai/a	
LIQUID N	1.5	qt/a	
MSO	1.5	pt/a	
5 OPTION	0.033	lb ai/a	99
CALLISTO	0.047	lb ai/a	
LIQUID N	1.5	qt/a	
MSO	1.5	pt/a	
6 EQUIP CORN HERBICIDE	0.03	lb ai/a	99
CALLISTO	0.047	lb ai/a	
LIQUID N	1.5	qt/a	
MSO	1.5	pt/a	
7 CHECK UNTREATED			0
8 ROUNDUP WeatherMAX	22	fl oz/a	99
AMS	3.7	% v/v	
9 TOUCHDOWN TOTAL	1	lb ai/a	99
AMS	3.7	% v/v	
10 CHECK UNTREATED			0
LSD (P=.05)			1.0
Standard Deviation			0.6
CV			0.78
Grand Mean			78.8
Bartlett's X2			3.257
P(Bartlett's X2)			0.196
Replicate F			0.802
Replicate Prob(F)			0.4638
Treatment F			13839.645
Treatment Prob(F)			0.0001

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CORN POSTEMERGENCE JOHNSONGRASS

Trial ID: C4017
Location: LEXINGTON, KY

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

General Trial Information

Study Director: CHARLES H. SLACK
Affiliation: UNIVERSITY OF KENTUCKY
Postal Code: 40546
Investigator: Charles H. Slack

Trial Location

City: LEXINGTON **Trial Status:** COMPLETE
State/Prov.: KENTUCKY
Postal Code: 40511 **Initiation Date:** 5-4-04
Directions:

Objectives:**Conclusions:****Crop Description**

Crop 1: ZEAMX Zea mays **Corn**
Variety: DKC 64-11 RR
BBCH Scale: BCOR **Planting Date:** 5-4-04
Planting Method: ROW **Rate, Unit:** 28000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM **Soil Temperature, Unit:** 57 F
Soil Moisture: SLIGHTLY WET **Emergence Date:** 5-9-04

Pest Description

Pest 1 Type: W **Code:** SORHA Sorghum halepense
Common Name: Johnson grass

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD
Plot Length, Unit: 44 FT **Tillage Type:** CONVENTIONAL-TILL
Replications: 3 **Study Design:** Split-Block

Trial Initiation Comments:**Field Prep./Maintenance:****Soil Description**

% Sand: 6 **% OM:** 2.6 **Texture:** SILT LOAM
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY
% Clay: 32 **CEC:** 17 **Fert. Level:** EXCELLENT

Moisture Conditions

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

Application Description

A
Application Date: 5-24-04
Time of Day: 3:00
Application Method: SPRAY
Application Timing: 12J
Application Placement: BROFOL
Air Temperature, Unit: 74 F
% Relative Humidity: 78
Wind Velocity, Unit: 4 MPH
Dew Presence (Y/N): N
Soil Temperature, Unit: 77 F
Soil Moisture: ADEQUATE
% Cloud Cover: 20

Crop Stage At Each Application**A**

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

Pest Stage At Each Application**A**

Pest 1 Code, Disc., Scale: SORHA W
Height, Unit: 12 IN

Application Equipment**A**

Appl. Equipment: BACKPACK
Operating Pressure: 30
Pressure Unit: 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: 3.5 MPH
Carrier: WATER
Spray Volume: 24
Volume Unit: GPA
Propellant: CO2

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NO-TILL CORN ROUNDUP READY

Trial ID: C4020
Location: LEXINGTON, KY

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

Pest Type		W Weed	W Weed	W Weed
Pest Code		SETFA	XANST	AMBTR
Pest Name		Giant foxtail	Common cocklebur	Giant Ragweed
Crop Code	ZEAMX			
BBCH Scale	BCOR			
Crop Name	Corn			
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	1	2	3	4
1	BASIS	0.5	oz/a	0	99	99	99
	CINCH ATZ	1.1	qt/a				
	WEEDONE LV4	1	pt/a				
	COC	1	qt/a				
	STEADFAST ATZ	14	oz/a				
	CALLISTO	1.5	oz/a				
	COC	1	qt/a				
	AMS	2	lb/a				
2	ROUNDUP WeatherMAX	22	oz/a	0	99	99	99
	CINCH ATZ	1.1	qt/a				
	AMS	2	lb/a				
	STEADFAST ATZ	14	oz/a				
	CALLISTO	1.5	oz/a				
	COC	1	qt/a				
	AMS	2	lb/a				
3	GRAMOXONE MAX	0.75	lb ai/a	0	99	99	99
	WEEDONE LV4	0.5	lb ai/a				
	ACTIVATOR 90	0.25	% v/v				
	EXPERT	3.36	lb ai/a				
4	GRAMOXONE MAX	0.75	lb ai/a	0	99	99	99
	WEEDONE LV4	0.5	lb ai/a				
	ACTIVATOR 90	0.25	% v/v				
	KEYSTONE	1.75	lb ai/a				
	AATREX	0.5	lb ai/a				
	GF-1279	24	fl oz/a				
	AMS	1.5	% v/v				
5	EXPERT	3.66	lb ai/a	0	99	99	99
	TOUCHDOWN TOTAL	0.75	lb ai/a				
	AMS	3.7	% v/v				
6	BICEP II MAGNUM	1.45	lb ai/a	0	99	99	99
	TOUCHDOWN TOTAL	0.75	lb ai/a				
	AMS	3.7	% v/v				
	TOUCHDOWN TOTAL	0.75	lb ai/a				
	AMS	3.7	% v/v				
7	BICEP II MAGNUM	2.89	lb ai/a	0	99	99	99
	TOUCHDOWN TOTAL	0.75	lb ai/a				
	AMS	3.7	% v/v				
	TOUCHDOWN TOTAL	0.75	lb ai/a				
	AMS	3.7	% v/v				
8	LUMAX	1.5	lb ai/a	0	99	99	99
	TOUCHDOWN TOTAL	0.75	lb ai/a				
	AMS	3.7	% v/v				
	TOUCHDOWN TOTAL	0.75	lb ai/a				
	AMS	3.7	% v/v				
9	DEGREE XTRA	1.52	lb ai/a	0	99	99	99
	ROUNDUP WeatherMAX	0.75	lb ae/a				
	AMS	3.7	% v/v				
	ROUNDUP WeatherMAX	0.75	lb ae/a				
	AMS	3.7	% v/v				

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Pest Type		W Weed	W Weed	W Weed
Pest Code		SETFA	XANST	AMBTR
Pest Name		Giant foxtail	Common cocklebur	Giant Ragweed
Crop Code	ZEAMX			
BBCH Scale	BCOR			
Crop Name	Corn			
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt Treatment	Rate				
No. Name	Rate Unit	1	2	3	4
10 DEGREE XTRA	3.03 lb ai/a	0	99	99	99
ROUNDUP WeatherMAX	0.75 lb ae/a				
AMS	3.7 % v/v				
ROUNDUP WeatherMAX	0.75 lb ae/a				
AMS	3.7 % v/v				
LSD (P=.05)		0.0	0.0	0.0	0.0
Standard Deviation		0.0	0.0	0.0	0.0
CV		0.0	0.0	0.0	0.0
Grand Mean		0.0	99.0	99.0	99.0
Bartlett's X2		0.0	0.0	0.0	0.0
P(Bartlett's X2)		.	.	.	.
Replicate F		0.000	0.000	0.000	0.000
Replicate Prob(F)		1.0000	1.0000	1.0000	1.0000
Treatment F		0.000	0.000	0.000	0.000
Treatment Prob(F)		1.0000	1.0000	1.0000	1.0000

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Pest Type		W Weed		W Weed		W Weed
Pest Code		IPOSS		SETFA		XANST
Pest Name		Morning glory		Giant foxtail		Common cocklebur
Crop Code				ZEAMX		
BBCH Scale				BCOR		
Crop Name				Corn		
Rating Data Type		CONTROL	INJURY	CONTROL		CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT		PERCENT
Trt-Eval Interval		2 WEEK	4 WEEK	4 WEEK		4 WEEK
ARM Action Codes		P	P	P		P
Number of Decimals		0	0	0		0
Trt Treatment	Rate					
No. Name	Rate Unit	5	6	7		8
1 BASIS	0.5 oz/a	99	0	99		99
CINCH ATZ	1.1 qt/a					
WEEDONE LV4	1 pt/a					
COC	1 qt/a					
STEADFAST ATZ	14 oz/a					
CALLISTO	1.5 oz/a					
COC	1 qt/a					
AMS	2 lb/a					
2 ROUNDUP WeatherMAX	22 oz/a	99	0	99		99
CINCH ATZ	1.1 qt/a					
AMS	2 lb/a					
STEADFAST ATZ	14 oz/a					
CALLISTO	1.5 oz/a					
COC	1 qt/a					
AMS	2 lb/a					
3 GRAMOXONE MAX	0.75 lb ai/a	99	0	99		99
WEEDONE LV4	0.5 lb ai/a					
ACTIVATOR 90	0.25 % v/v					
EXPERT	3.36 lb ai/a					
4 GRAMOXONE MAX	0.75 lb ai/a	99	0	99		99
WEEDONE LV4	0.5 lb ai/a					
ACTIVATOR 90	0.25 % v/v					
KEYSTONE	1.75 lb ai/a					
AATREX	0.5 lb ai/a					
GF-1279	24 fl oz/a					
AMS	1.5 % v/v					
5 EXPERT	3.66 lb ai/a	99	0	99		99
TOUCHDOWN TOTAL	0.75 lb ai/a					
AMS	3.7 % v/v					
6 BICEP II MAGNUM	1.45 lb ai/a	99	0	99		99
TOUCHDOWN TOTAL	0.75 lb ai/a					
AMS	3.7 % v/v					
TOUCHDOWN TOTAL	0.75 lb ai/a					
AMS	3.7 % v/v					
7 BICEP II MAGNUM	2.89 lb ai/a	99	0	99		99
TOUCHDOWN TOTAL	0.75 lb ai/a					
AMS	3.7 % v/v					
TOUCHDOWN TOTAL	0.75 lb ai/a					
AMS	3.7 % v/v					
8 LUMAX	1.5 lb ai/a	99	0	99		99
TOUCHDOWN TOTAL	0.75 lb ai/a					
AMS	3.7 % v/v					
TOUCHDOWN TOTAL	0.75 lb ai/a					
AMS	3.7 % v/v					
9 DEGREE XTRA	1.52 lb ai/a	99	0	99		99
ROUNDUP WeatherMAX	0.75 lb ae/a					
AMS	3.7 % v/v					
ROUNDUP WeatherMAX	0.75 lb ae/a					
AMS	3.7 % v/v					

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

Pest Type	W Weed	W Weed	W Weed			
Pest Code	IPOSS	SETFA	XANST			
Pest Name	Morning glory	Giant foxtail	Common cocklebur			
Crop Code	ZEAMX					
BBCH Scale	BCOR					
Crop Name	Corn					
Rating Data Type	CONTROL	INJURY	CONTROL			
Rating Unit	PERCENT	PERCENT	PERCENT			
Trt-Eval Interval	2 WEEK	4 WEEK	4 WEEK			
ARM Action Codes	P	P	P			
Number of Decimals	0	0	0			
Trt Treatment	Rate					
No. Name	Rate	Unit	5	6	7	8
10 DEGREE XTRA	3.03	lb ai/a	99	0	99	99
ROUNDUP WeatherMAX	0.75	lb ae/a				
AMS	3.7	% v/v				
ROUNDUP WeatherMAX	0.75	lb ae/a				
AMS	3.7	% v/v				
LSD (P=.05)	0.0		0.0	0.0	0.0	0.0
Standard Deviation	0.0		0.0	0.0	0.0	0.0
CV	0.0		0.0	0.0	0.0	0.0
Grand Mean	99.0		0.0	0.0	99.0	99.0
Bartlett's X2	0.0		0.0	0.0	0.0	0.0
P(Bartlett's X2)	.		.	.	.	.
Replicate F	0.000		0.000	0.000	0.000	0.000
Replicate Prob(F)	1.0000		1.0000	1.0000	1.0000	1.0000
Treatment F	0.000		0.000	0.000	0.000	0.000
Treatment Prob(F)	1.0000		1.0000	1.0000	1.0000	1.0000

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

Pest Type		W Weed	W Weed		W Weed
Pest Code		AMBTR	IPOSS		SETFA
Pest Name		Giant Ragweed	Morning glory		Giant foxtail
Crop Code				ZEAMX	
BBCH Scale				BCOR	
Crop Name				Corn	
Rating Data Type		CONTROL	CONTROL	INJURY	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval		4 WEEK	4 WEEK	8 WEEK	8 WEEK
ARM Action Codes		P	P	P	P
Number of Decimals		0	0	0	0
Trt Treatment	Rate				
No. Name	Rate Unit	9	10	11	12
1 BASIS	0.5 oz/a	99	99	0	99
CINCH ATZ	1.1 qt/a				
WEEDONE LV4	1 pt/a				
COC	1 qt/a				
STEADFAST ATZ	14 oz/a				
CALLISTO	1.5 oz/a				
COC	1 qt/a				
AMS	2 lb/a				
2 ROUNDUP WeatherMAX	22 oz/a	99	99	0	99
CINCH ATZ	1.1 qt/a				
AMS	2 lb/a				
STEADFAST ATZ	14 oz/a				
CALLISTO	1.5 oz/a				
COC	1 qt/a				
AMS	2 lb/a				
3 GRAMOXONE MAX	0.75 lb ai/a	99	99	0	99
WEEDONE LV4	0.5 lb ai/a				
ACTIVATOR 90	0.25 % v/v				
EXPERT	3.36 lb ai/a				
4 GRAMOXONE MAX	0.75 lb ai/a	99	99	0	99
WEEDONE LV4	0.5 lb ai/a				
ACTIVATOR 90	0.25 % v/v				
KEYSTONE	1.75 lb ai/a				
AATREX	0.5 lb ai/a				
GF-1279	24 fl oz/a				
AMS	1.5 % v/v				
5 EXPERT	3.66 lb ai/a	99	99	0	99
TOUCHDOWN TOTAL	0.75 lb ai/a				
AMS	3.7 % v/v				
6 BICEP II MAGNUM	1.45 lb ai/a	99	99	0	99
TOUCHDOWN TOTAL	0.75 lb ai/a				
AMS	3.7 % v/v				
TOUCHDOWN TOTAL	0.75 lb ai/a				
AMS	3.7 % v/v				
7 BICEP II MAGNUM	2.89 lb ai/a	99	99	0	99
TOUCHDOWN TOTAL	0.75 lb ai/a				
AMS	3.7 % v/v				
TOUCHDOWN TOTAL	0.75 lb ai/a				
AMS	3.7 % v/v				
8 LUMAX	1.5 lb ai/a	99	99	0	99
TOUCHDOWN TOTAL	0.75 lb ai/a				
AMS	3.7 % v/v				
TOUCHDOWN TOTAL	0.75 lb ai/a				
AMS	3.7 % v/v				
9 DEGREE XTRA	1.52 lb ai/a	99	99	0	99
ROUNDUP WeatherMAX	0.75 lb ae/a				
AMS	3.7 % v/v				
ROUNDUP WeatherMAX	0.75 lb ae/a				
AMS	3.7 % v/v				

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

Pest Type	W Weed	W Weed	W Weed	W Weed	
Pest Code	AMBTR	IPOSS		SETFA	
Pest Name	Giant Ragweed	Morning glory		Giant foxtail	
Crop Code			ZEAMX		
BBCH Scale			BCOR		
Crop Name			Corn		
Rating Data Type	CONTROL	CONTROL	INJURY	CONTROL	
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	
Trt-Eval Interval	4 WEEK	4 WEEK	8 WEEK	8 WEEK	
ARM Action Codes	P	P	P	P	
Number of Decimals	0	0	0	0	
Trt Treatment					
No. Name	Rate Unit	9	10	11	12
10 DEGREE XTRA	3.03 lb ai/a	99	99	0	99
ROUNDUP WeatherMAX	0.75 lb ae/a				
AMS	3.7 % v/v				
ROUNDUP WeatherMAX	0.75 lb ae/a				
AMS	3.7 % v/v				
LSD (P=.05)		0.0	0.0	0.0	0.0
Standard Deviation		0.0	0.0	0.0	0.0
CV		0.0	0.0	0.0	0.0
Grand Mean		99.0	99.0	0.0	99.0
Bartlett's X2		0.0	0.0	0.0	0.0
P(Bartlett's X2)		.	.	.	.
Replicate F		0.000	0.000	0.000	0.000
Replicate Prob(F)		1.0000	1.0000	1.0000	1.0000
Treatment F		0.000	0.000	0.000	0.000
Treatment Prob(F)		1.0000	1.0000	1.0000	1.0000

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

Pest Type	W Weed	W Weed	W Weed
Pest Code	XANST	AMBTR	IPOSS
Pest Name	Common cocklebur	Giant Ragweed	Morning glory
Crop Code			
BBCH Scale			
Crop Name			
Rating Data Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt Treatment	Rate			
No. Name	Rate Unit	13	14	15
1 BASIS	0.5 oz/a	99	99	99
CINCH ATZ	1.1 qt/a			
WEEDONE LV4	1 pt/a			
COC	1 qt/a			
STEADFAST ATZ	14 oz/a			
CALLISTO	1.5 oz/a			
COC	1 qt/a			
AMS	2 lb/a			
2 ROUNDUP WeatherMAX	22 oz/a	99	99	99
CINCH ATZ	1.1 qt/a			
AMS	2 lb/a			
STEADFAST ATZ	14 oz/a			
CALLISTO	1.5 oz/a			
COC	1 qt/a			
AMS	2 lb/a			
3 GRAMOXONE MAX	0.75 lb ai/a	99	99	99
WEEDONE LV4	0.5 lb ai/a			
ACTIVATOR 90	0.25 % v/v			
EXPERT	3.36 lb ai/a			
4 GRAMOXONE MAX	0.75 lb ai/a	99	99	99
WEEDONE LV4	0.5 lb ai/a			
ACTIVATOR 90	0.25 % v/v			
KEYSTONE	1.75 lb ai/a			
AATREX	0.5 lb ai/a			
GF-1279	24 fl oz/a			
AMS	1.5 % v/v			
5 EXPERT	3.66 lb ai/a	99	99	99
TOUCHDOWN TOTAL	0.75 lb ai/a			
AMS	3.7 % v/v			
6 BICEP II MAGNUM	1.45 lb ai/a	99	99	99
TOUCHDOWN TOTAL	0.75 lb ai/a			
AMS	3.7 % v/v			
TOUCHDOWN TOTAL	0.75 lb ai/a			
AMS	3.7 % v/v			
7 BICEP II MAGNUM	2.89 lb ai/a	99	99	99
TOUCHDOWN TOTAL	0.75 lb ai/a			
AMS	3.7 % v/v			
TOUCHDOWN TOTAL	0.75 lb ai/a			
AMS	3.7 % v/v			
8 LUMAX	1.5 lb ai/a	99	99	99
TOUCHDOWN TOTAL	0.75 lb ai/a			
AMS	3.7 % v/v			
TOUCHDOWN TOTAL	0.75 lb ai/a			
AMS	3.7 % v/v			
9 DEGREE XTRA	1.52 lb ai/a	99	99	99
ROUNDUP WeatherMAX	0.75 lb ae/a			
AMS	3.7 % v/v			
ROUNDUP WeatherMAX	0.75 lb ae/a			
AMS	3.7 % v/v			

Dept. of Agronomy, Univ. of Ky
 Weed Science Field Research

Pest Type	W Weed	W Weed	W Weed
Pest Code	XANST	AMBTR	IPOSS
Pest Name	Common cocklebur	Giant Ragweed	Morning glory
Crop Code			
BBCH Scale			
Crop Name			
Rating Data Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt Treatment	Rate			
No. Name	Rate Unit	13	14	15
10 DEGREE XTRA	3.03 lb ai/a	99	99	99
ROUNDUP WeatherMAX	0.75 lb ae/a			
AMS	3.7 % v/v			
ROUNDUP WeatherMAX	0.75 lb ae/a			
AMS	3.7 % v/v			
LSD (P=.05)		0.0	0.0	0.0
Standard Deviation		0.0	0.0	0.0
CV		0.0	0.0	0.0
Grand Mean		99.0	99.0	99.0
Bartlett's X2		0.0	0.0	0.0
P(Bartlett's X2)		.	.	.
Replicate F		0.000	0.000	0.000
Replicate Prob(F)		1.0000	1.0000	1.0000
Treatment F		0.000	0.000	0.000
Treatment Prob(F)		1.0000	1.0000	1.0000

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

NO-TILL CORN ROUNDUP READY

Trial ID: C4020
Location: LEXINGTON, KY

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

General Trial Information

Study Director: CHARLES H. SLACK
Affiliation: UNIVERSITY OF KENTUCKY
Postal Code: 40546
Investigator: Charles H. Slack

Trial Location

City: LEXINGTON **Trial Status:** COMPLETE
State/Prov.: KENTUCKY
Postal Code: 40511 **Initiation Date:** 5-4-04
Directions:

Objectives:

Conclusions:

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: GARST 8352 RR
BBCH Scale: BCOR **Planting Date:** 5-4-04
Planting Method: ROW **Rate, Unit:** 28000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM/TRASHY **Soil Temperature, Unit:** 55 F
Soil Moisture: SLIGHTLY WET **Emergence Date:** 5-9-04

Pest Description

Pest 1 Type: W **Code:** SETFA *Setaria faberi*
Common Name: Giant Foxtail
Pest 2 Type: W **Code:** XANST *Xanthium strumarium*
Common Name: Common cocklebur
Pest 3 Type: W **Code:** AMBTR *Ambrosia trifida*
Common Name: Giant Ragweed
Pest 4 Type: W **Code:** IPOSS *Ipomoea sp.*
Common Name: Morning glory

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD
Plot Length, Unit: 44 FT **Tillage Type:** NO-TILL
Replications: 3 **Study Design:** Randomized Complete Block

Trial Initiation Comments:

Field Prep./Maintenance:

Soil Description

% Sand: 6 **% OM:** 2.6 **Texture:** SILT LOAM
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY
% Clay: 32 **CEC:** 17 **Fert. Level:** EXCELLENT

Moisture Conditions

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

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

Application Description

	A		B		C
Application Date:	5-4-04		5-27-04		6-3-04
Time of Day:	10:00		1:00		11:00
Application Method:	SPRAY		SPRAY		SPRAY
Application Timing:	PRE		MP		LP
Application Placement:	BROFOL		BROFOL		BROFOL
Air Temperature, Unit:	49 F		71 F		66 F
% Relative Humidity:	70		83		73
Wind Velocity, Unit:	3 MPH		4 MPH		3 MPH
Dew Presence (Y/N):	N		N		N
Soil Temperature, Unit:	55 F		69 F		67 F
Soil Moisture:	ADEQUATE		ADEQUATE		ADEQUATE
% Cloud Cover:	10		20		10

Crop Stage At Each Application

	A		B		C	
Crop 1 Code, BBCH Scale:	ZEAMX	BCOR	ZEAMX	BCOR	ZEAMX	BCOR
Stage Scale Used:	BBCH		BBCH		BBCH	
Height, Unit:			10	IN	13	IN

Pest Stage At Each Application

	A		B		C	
Pest 1 Code, Disc., Scale:	SETFA	W	SETFA	W	SETFA	W
Height, Unit:	1	IN	3	IN	4	IN
Pest 2 Code, Disc., Scale:	XANST	W	XANST	W	XANST	W
Height, Unit:	1.5	IN	4	IN	5	IN
Pest 3 Code, Disc., Scale:	AMBTR	W	AMBTR	W	AMBTR	W
Height, Unit:	1.5	IN	3	IN	4	IN
Pest 4 Code, Disc., Scale:	IPOSS	W	IPOSS	W	IPOSS	W
Height, Unit:	0.5	IN	1.5	IN	2	IN

Application Equipment

	A		B		C
Appl. Equipment:	ATV		BACKPACK		BACKPACK
Operating Pressure:	30		30		30
Pressure Unit:	PSI		PSI		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:	19 IN		28 IN		30 IN
Ground Speed, Unit:	4 MPH		3.5 MPH		3.5 MPH
Carrier:	WATER		WATER		WATER
Spray Volume:	24		24		24
Volume Unit:	GPA		GPA		GPA
Propellant:	CO2		CO2		CO2

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

CORN PREEMERGENCE ROUNDUP READY

Trial ID: C4030
Location: LEXINGTON, KY

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

Pest Type				W Weed	W Weed		
Pest Code				SETFA	AMBTR		
Pest Name				Giant foxtail	Giant Ragweed		
Crop Code		ZEAMX	ZEAMX	ZEAMX			
BBCH Scale		BCOR	BCOR	BCOR			
Crop Name		Corn	Corn	Corn			
Rating Data Type		INJURY	INJURY	INJURY	CONTROL		
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT		
Days After Last Applic.							
Trt-Eval Interval		1 WK PRE	2 WK PRE	3 WK PRE	PRE/POST		
ARM Action Codes		P	P	P	P		
Number of Decimals		0	0	0	0		
Trt Treatment	Rate	Rate					
No. Name	Rate	Unit	1	2	3		
			4		5		
1 CHECK			0	0	0	0	0
2 LEXAR	2.76	lb ai/a	0	0	0	98	91
3 BICEP II MAGNUM	2.89	lb ai/a	0	0	0	98	85
CALLISTO	0.094	lb ai/a					
AATREX	0.5	lb ai/a					
COC	1	qt/a					
LIQUID N	2.5	qt/a					
4 GUARDSMAN MAX	2.19	lb ai/a	0	0	0	98	82
DISTINCT	0.175	lb ai/a					
ACTIVATOR 90	0.125	% v/v					
LIQUID N	2.5	qt/a					
5 KEYSTONE	3.4	lb ai/a	0	0	0	98	93
HORNET	0.128	lb ai/a					
ACTIVATOR 90	0.25	% v/v					
LIQUID N	2.5	qt/a					
6 CINCH ATZ	1.03	lb ai/a	0	0	0	97	83
STEADFAST ATZ	0.78	lb ai/a					
CALLISTO	0.094	lb ai/a					
COC	1	qt/a					
LIQUID N	2.5	% v/v					
7 BALANCE PRO	0.07	lb ai/a	0	0	0	98	73
AATREX	1	lb ai/a					
EQUIP CORN HERBICIDE	0.03	lb ai/a					
MSO	1	qt/a					
LIQUID N	2.5	qt/a					
8 HARNESS XTRA	1.4	lb ai/a	0	0	0	98	77
ROUNDUP WeatherMAX	0.75	lb ae/a					
AMS	17	lb ai/100 gal					
9 ROUNDUP WeatherMAX	0.75	lb ae/a	0	0	0	0	0
AMS	17	lb ai/100 gal					
ROUNDUP WeatherMAX	0.56	lb ae/a					
AMS	17	lb ai/100 gal					
10 LUMAX	2.5	lb ai/a	0	0	0	98	93
AATREX	1	lb ai/a					
11 BICEP II MAGNUM	1.65	lb ai/a	0	0	0	98	72
LUMAX	1.8	lb ai/a					
12 LUMAX	1.5	lb ai/a	0	0	0	98	88
LUMAX	1	lb ai/a					
13 BICEP II MAGNUM	2.89	lb ai/a	0	0	0	98	83
SPIRIT	0.063	lb ai/a					
COC	1	qt/a					
LIQUID N	1	qt/a					
14 BICEP II MAGNUM	2.89	lb ai/a	0	0	0	98	85
TOUCHDOWN TOTAL	0.75	lb ai/a					
AMS	17	lb ai/100 gal					
15 BICEP II MAGNUM	1.45	lb ai/a	0	0	0	98	75
TOUCHDOWN TOTAL	0.75	lb ai/a					
AMS	17	lb ai/100 gal					

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

Pest Type					W Weed	W Weed
Pest Code					SETFA	AMBTR
Pest Name					Giant foxtail	Giant Ragweed
Crop Code		ZEAMX	ZEAMX	ZEAMX		
BBCH Scale		BCOR	BCOR	BCOR		
Crop Name		Corn	Corn	Corn		
Rating Data Type		INJURY	INJURY	INJURY	CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Days After Last Applic.						
Trt-Eval Interval		1 WK PRE	2 WK PRE	3 WK PRE	PRE/POST	PRE/POST
ARM Action Codes		P	P	P	P	P
Number of Decimals		0	0	0	0	0
Trt Treatment						
No. Name	Rate Unit	1	2	3	4	5
16 EXPERT	3.66 lb ai/a	0	0	0	0	0
LSD (P=.05)		0.0	0.0	0.0	0.7	12.7
Standard Deviation		0.0	0.0	0.0	0.4	7.6
CV		0.0	0.0	0.0	0.54	11.32
Grand Mean		0.0	0.0	0.0	79.56	67.44
Bartlett's X2		0.0	0.0	0.0	0.0	9.502
P(Bartlett's X2)		.	.	.	.	0.576
Replicate F		0.000	0.000	0.000	1.000	3.811
Replicate Prob(F)		1.0000	1.0000	1.0000	0.3798	0.0335
Treatment F		0.000	0.000	0.000	24932.202	59.768
Treatment Prob(F)		1.0000	1.0000	1.0000	0.0001	0.0001

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

Pest Type		W Weed	W Weed	
Pest Code		IPOSS	CHEAL	
Pest Name		Morning glory	Lambsquarters,	commo
Crop Code				ZEAMX
BBCH Scale				BCOR
Crop Name				Corn
Rating Data Type		CONTROL	CONTROL	INJURY
Rating Unit		PERCENT	PERCENT	PERCENT
Days After Last Applic.				
Trt-Eval Interval		PRE/POST	PRE/POST	2 WEEK
ARM Action Codes		P	P	P
Number of Decimals		0	0	0
Trt Treatment	Rate	Rate		
No. Name	Rate Unit	6	7	8
1 CHECK		0		0
2 LEXAR	2.76 lb ai/a	88		97
3 BICEP II MAGNUM	2.89 lb ai/a	85		93
CALLISTO	0.094 lb ai/a			
AATREX	0.5 lb ai/a			
COC	1 qt/a			
LIQUID N	2.5 qt/a			
4 GUARDSMAN MAX	2.19 lb ai/a	88		95
DISTINCT	0.175 lb ai/a			
ACTIVATOR 90	0.125 % v/v			
LIQUID N	2.5 qt/a			
5 KEYSTONE	3.4 lb ai/a	92		96
HORNET	0.128 lb ai/a			
ACTIVATOR 90	0.25 % v/v			
LIQUID N	2.5 qt/a			
6 CINCH ATZ	1.03 lb ai/a	82		94
STEADFAST ATZ	0.78 lb ai/a			
CALLISTO	0.094 lb ai/a			
COC	1 qt/a			
LIQUID N	2.5 % v/v			
7 BALANCE PRO	0.07 lb ai/a	75		95
AATREX	1 lb ai/a			
EQUIP CORN HERBICIDE	0.03 lb ai/a			
MSO	1 qt/a			
LIQUID N	2.5 qt/a			
8 HARNESS XTRA	1.4 lb ai/a	72		93
ROUNDUP WeatherMAX	0.75 lb ae/a			
AMS	17 lb ai/100 gal			
9 ROUNDUP WeatherMAX	0.75 lb ae/a	0		0
AMS	17 lb ai/100 gal			
ROUNDUP WeatherMAX	0.56 lb ae/a			
AMS	17 lb ai/100 gal			
10 LUMAX	2.5 lb ai/a	93		96
AATREX	1 lb ai/a			
11 BICEP II MAGNUM	1.65 lb ai/a	78		95
LUMAX	1.8 lb ai/a			
12 LUMAX	1.5 lb ai/a	82		96
LUMAX	1 lb ai/a			
13 BICEP II MAGNUM	2.89 lb ai/a	82		95
SPIRIT	0.063 lb ai/a			
COC	1 qt/a			
LIQUID N	1 qt/a			
14 BICEP II MAGNUM	2.89 lb ai/a	82		95
TOUCHDOWN TOTAL	0.75 lb ai/a			
AMS	17 lb ai/100 gal			
15 BICEP II MAGNUM	1.45 lb ai/a	78		92
TOUCHDOWN TOTAL	0.75 lb ai/a			
AMS	17 lb ai/100 gal			
16 EXPERT	3.66 lb ai/a	0		0
LSD (P=.05)		12.1		3.5
Standard Deviation		7.3		2.1
CV		10.79		2.76
Grand Mean		67.29		77.04
Bartlett's X2		17.298		6.132
P(Bartlett's X2)		0.139		0.524

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

Pest Type		W Weed		W Weed	
Pest Code		IPOSS		CHEAL	
Pest Name		Morning glory	Lambsquarters,	commo	
Crop Code					ZEAMX
BBCH Scale					BCOR
Crop Name					Corn
Rating Data Type		CONTROL		CONTROL	INJURY
Rating Unit		PERCENT		PERCENT	PERCENT
Days After Last Applic.					
Trt-Eval Interval		PRE/POST		PRE/POST	2 WEEK
ARM Action Codes		P		P	P
Number of Decimals		0		0	0
Trt Treatment					
No. Name	Rate	Unit	6	7	8
Replicate F			4.750	2.279	1.000
Replicate Prob(F)			0.0161	0.1198	0.3798
Treatment F			65.240	967.901	1.450
Treatment Prob(F)			0.0001	0.0001	0.1878

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Pest Type	W Weed	W Weed	W Weed
Pest Code	SETFA	CHEAL	AMBTR
Pest Name	Giant foxtail Lambsquarters, commo Giant Ragweed		
Crop Code			
BBCH Scale			
Crop Name			
Rating Data Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Days After Last Applic.			
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt Treatment	Rate	Unit	9	10	11
1 CHECK			0	0	0
2 LEXAR	2.76	lb ai/a	98	98	93
3 BICEP II MAGNUM	2.89	lb ai/a	98	98	98
CALLISTO	0.094	lb ai/a			
AATREX	0.5	lb ai/a			
COC	1	qt/a			
LIQUID N	2.5	qt/a			
4 GUARDSMAN MAX	2.19	lb ai/a	98	98	98
DISTINCT	0.175	lb ai/a			
ACTIVATOR 90	0.125	% v/v			
LIQUID N	2.5	qt/a			
5 KEYSTONE	3.4	lb ai/a	98	98	98
HORNET	0.128	lb ai/a			
ACTIVATOR 90	0.25	% v/v			
LIQUID N	2.5	qt/a			
6 CINCH ATZ	1.03	lb ai/a	98	98	98
STEADFAST ATZ	0.78	lb ai/a			
CALLISTO	0.094	lb ai/a			
COC	1	qt/a			
LIQUID N	2.5	% v/v			
7 BALANCE PRO	0.07	lb ai/a	98	98	96
AATREX	1	lb ai/a			
EQUIP CORN HERBICIDE	0.03	lb ai/a			
MSO	1	qt/a			
LIQUID N	2.5	qt/a			
8 HARNESS XTRA	1.4	lb ai/a	98	98	96
ROUNDUP WeatherMAX	0.75	lb ae/a			
AMS	17	lb ai/100 gal			
9 ROUNDUP WeatherMAX	0.75	lb ae/a	98	98	96
AMS	17	lb ai/100 gal			
ROUNDUP WeatherMAX	0.56	lb ae/a			
AMS	17	lb ai/100 gal			
10 LUMAX	2.5	lb ai/a	98	98	93
AATREX	1	lb ai/a			
11 BICEP II MAGNUM	1.65	lb ai/a	98	98	98
LUMAX	1.8	lb ai/a			
12 LUMAX	1.5	lb ai/a	98	98	98
LUMAX	1	lb ai/a			
13 BICEP II MAGNUM	2.89	lb ai/a	98	98	98
SPIRIT	0.063	lb ai/a			
COC	1	qt/a			
LIQUID N	1	qt/a			
14 BICEP II MAGNUM	2.89	lb ai/a	98	98	96
TOUCHDOWN TOTAL	0.75	lb ai/a			
AMS	17	lb ai/100 gal			
15 BICEP II MAGNUM	1.45	lb ai/a	98	98	95
TOUCHDOWN TOTAL	0.75	lb ai/a			
AMS	17	lb ai/100 gal			
16 EXPERT	3.66	lb ai/a	98	98	98
LSD (P=.05)			0.2	0.2	2.2
Standard Deviation			0.1	0.1	1.3
CV			0.16	0.16	1.49
Grand Mean			92.19	92.19	90.81
Bartlett's X2			0.0	0.0	19.872
P(Bartlett's X2)			0.001*	0.001*	0.07

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Weed Science Field Research

Pest Type	W Weed	W Weed	W Weed
Pest Code	SETFA	CHEAL	AMBTR
Pest Name	Giant foxtail	Lambsquarters, commo	Giant Ragweed
Crop Code			
BBCH Scale			
Crop Name			
Rating Data Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Days After Last Applic.			
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK
ARM Action Codes	P	P	P
Number of Decimals	0	0	0
Trt Treatment			
No. Name	Rate	Rate	Rate
	Unit	Unit	Unit
	9	10	11
Replicate F	225.000	225.000	5.870
Replicate Prob(F)	0.0001	0.0001	0.0071
Treatment F	87025.009	87025.009	971.325
Treatment Prob(F)	0.0001	0.0001	0.0001

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Weed Science Field Research

Pest Type	W Weed	W Weed
Pest Code	IPOSS	SETFA
Pest Name	Morning glory	Giant foxtail
Crop Code		ZEAMX
BBCH Scale		BCOR
Crop Name		Corn
Rating Data Type	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT
Days After Last Applic.		
Trt-Eval Interval	2 WEEK	4 WEEK
ARM Action Codes	P	P
Number of Decimals	0	0

Trt Treatment	Rate	Unit	12	13	14
1 CHECK			0	0	0
2 LEXAR	2.76 lb ai/a		95	0	98
3 BICEP II MAGNUM	2.89 lb ai/a		98	3	98
CALLISTO	0.094 lb ai/a				
AATREX	0.5 lb ai/a				
COC	1 qt/a				
LIQUID N	2.5 qt/a				
4 GUARDSMAN MAX	2.19 lb ai/a		97	0	98
DISTINCT	0.175 lb ai/a				
ACTIVATOR 90	0.125 % v/v				
LIQUID N	2.5 qt/a				
5 KEYSTONE	3.4 lb ai/a		98	0	98
HORNET	0.128 lb ai/a				
ACTIVATOR 90	0.25 % v/v				
LIQUID N	2.5 qt/a				
6 CINCH ATZ	1.03 lb ai/a		98	0	98
STEADFAST ATZ	0.78 lb ai/a				
CALLISTO	0.094 lb ai/a				
COC	1 qt/a				
LIQUID N	2.5 % v/v				
7 BALANCE PRO	0.07 lb ai/a		97	3	98
AATREX	1 lb ai/a				
EQUIP CORN HERBICIDE	0.03 lb ai/a				
MSO	1 qt/a				
LIQUID N	2.5 qt/a				
8 HARNESS XTRA	1.4 lb ai/a		96	0	98
ROUNDUP WeatherMAX	0.75 lb ae/a				
AMS	17 lb ai/100 gal				
9 ROUNDUP WeatherMAX	0.75 lb ae/a		93	0	95
AMS	17 lb ai/100 gal				
ROUNDUP WeatherMAX	0.56 lb ae/a				
AMS	17 lb ai/100 gal				
10 LUMAX	2.5 lb ai/a		97	0	98
AATREX	1 lb ai/a				
11 BICEP II MAGNUM	1.65 lb ai/a		98	0	97
LUMAX	1.8 lb ai/a				
12 LUMAX	1.5 lb ai/a		98	0	98
LUMAX	1 lb ai/a				
13 BICEP II MAGNUM	2.89 lb ai/a		98	0	98
SPIRIT	0.063 lb ai/a				
COC	1 qt/a				
LIQUID N	1 qt/a				
14 BICEP II MAGNUM	2.89 lb ai/a		97	0	98
TOUCHDOWN TOTAL	0.75 lb ai/a				
AMS	17 lb ai/100 gal				
15 BICEP II MAGNUM	1.45 lb ai/a		96	0	98
TOUCHDOWN TOTAL	0.75 lb ai/a				
AMS	17 lb ai/100 gal				
16 EXPERT	3.66 lb ai/a		98	0	98
LSD (P=.05)			2.4	3.3	2.8
Standard Deviation			1.4	2.0	1.7
CV			1.55	473.29	1.8
Grand Mean			91.08	0.42	91.9
Bartlett's X2			15.197	0.0	42.842
P(Bartlett's X2)			0.231	1.00	0.001*

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Weed Science Field Research

Pest Type	W Weed		W Weed	
Pest Code	IPOSS		SETFA	
Pest Name	Morning glory		Giant foxtail	
Crop Code	ZEAMX			
BBCH Scale	BCOR			
Crop Name	Corn			
Rating Data Type	CONTROL	INJURY	CONTROL	
Rating Unit	PERCENT	PERCENT	PERCENT	
Days After Last Applic.				
Trt-Eval Interval	2 WEEK	4 WEEK	4 WEEK	
ARM Action Codes	P	P	P	
Number of Decimals	0	0	0	
Trt Treatment	Rate		Rate	
No. Name	Rate	Unit	12	13
				14
Replicate F	1.167		2.143	0.280
Replicate Prob(F)	0.3251		0.1349	0.7574
Treatment F	888.033		1.000	656.392
Treatment Prob(F)	0.0001		0.4801	0.0001

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Weed Science Field Research

Pest Type	W Weed	W Weed	W Weed
Pest Code	CHEAL	AMBTR	IPOSS
Pest Name	Lambsquarters, commo	Giant Ragweed	Morning glory
Crop Code			
BBCH Scale			
Crop Name			
Rating Data Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Days After Last Applic.			
Trt-Eval Interval	4 WEEK	4 WEEK	4 WEEK
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt Treatment	Rate	Unit	15	16	17
1 CHECK			0	0	0
2 LEXAR	2.76 lb ai/a		98	85	87
3 BICEP II MAGNUM	2.89 lb ai/a		98	96	96
CALLISTO	0.094 lb ai/a				
AATREX	0.5 lb ai/a				
COC	1 qt/a				
LIQUID N	2.5 qt/a				
4 GUARDSMAN MAX	2.19 lb ai/a		98	93	90
DISTINCT	0.175 lb ai/a				
ACTIVATOR 90	0.125 % v/v				
LIQUID N	2.5 qt/a				
5 KEYSTONE	3.4 lb ai/a		98	95	93
HORNET	0.128 lb ai/a				
ACTIVATOR 90	0.25 % v/v				
LIQUID N	2.5 qt/a				
6 CINCH ATZ	1.03 lb ai/a		98	96	90
STEADFAST ATZ	0.78 lb ai/a				
CALLISTO	0.094 lb ai/a				
COC	1 qt/a				
LIQUID N	2.5 % v/v				
7 BALANCE PRO	0.07 lb ai/a		98	88	90
AATREX	1 lb ai/a				
EQUIP CORN HERBICIDE	0.03 lb ai/a				
MSO	1 qt/a				
LIQUID N	2.5 qt/a				
8 HARNESS XTRA	1.4 lb ai/a		98	85	85
ROUNDUP WeatherMAX	0.75 lb ae/a				
AMS	17 lb ai/100 gal				
9 ROUNDUP WeatherMAX	0.75 lb ae/a		97	88	88
AMS	17 lb ai/100 gal				
ROUNDUP WeatherMAX	0.56 lb ae/a				
AMS	17 lb ai/100 gal				
10 LUMAX	2.5 lb ai/a		98	93	88
AATREX	1 lb ai/a				
11 BICEP II MAGNUM	1.65 lb ai/a		98	96	93
LUMAX	1.8 lb ai/a				
12 LUMAX	1.5 lb ai/a		98	90	90
LUMAX	1 lb ai/a				
13 BICEP II MAGNUM	2.89 lb ai/a		98	93	92
SPIRIT	0.063 lb ai/a				
COC	1 qt/a				
LIQUID N	1 qt/a				
14 BICEP II MAGNUM	2.89 lb ai/a		98	88	85
TOUCHDOWN TOTAL	0.75 lb ai/a				
AMS	17 lb ai/100 gal				
15 BICEP II MAGNUM	1.45 lb ai/a		98	87	92
TOUCHDOWN TOTAL	0.75 lb ai/a				
AMS	17 lb ai/100 gal				
16 EXPERT	3.66 lb ai/a		98	96	96
LSD (P=.05)			1.0	7.2	6.1
Standard Deviation			0.6	4.3	3.6
CV			0.64	5.07	4.3
Grand Mean			92.1	85.56	84.69
Bartlett's X2			7.294	9.505	8.116
P(Bartlett's X2)			0.923	0.734	0.776

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Pest Type	W Weed	W Weed	W Weed
Pest Code	CHEAL	AMBTR	IPOSS
Pest Name	Lambsquarters, commo	Giant Ragweed	Morning glory
Crop Code			
BBCH Scale			
Crop Name			
Rating Data Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Days After Last Applic.			
Trt-Eval Interval	4 WEEK	4 WEEK	4 WEEK
ARM Action Codes	P	P	P
Number of Decimals	0	0	0
Trt Treatment			
No. Name	Rate	Rate	Rate
	Unit	Unit	Unit
	15	16	17
Replicate F	7.348	1.579	7.145
Replicate Prob(F)	0.0025	0.2228	0.0029
Treatment F	5276.336	85.632	117.803
Treatment Prob(F)	0.0001	0.0001	0.0001

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Trt Treatment	Rate	Unit	18	19	20
1 CHECK			0	0	0
2 LEXAR	2.76	lb ai/a	0	98	98
3 BICEP II MAGNUM	2.89	lb ai/a	0	98	98
CALLISTO	0.094	lb ai/a			
AATREX	0.5	lb ai/a			
COC	1	qt/a			
LIQUID N	2.5	qt/a			
4 GUARDSMAN MAX	2.19	lb ai/a	0	98	98
DISTINCT	0.175	lb ai/a			
ACTIVATOR 90	0.125	% v/v			
LIQUID N	2.5	qt/a			
5 KEYSTONE	3.4	lb ai/a	0	98	98
HORNET	0.128	lb ai/a			
ACTIVATOR 90	0.25	% v/v			
LIQUID N	2.5	qt/a			
6 CINCH ATZ	1.03	lb ai/a	0	98	98
STEADFAST ATZ	0.78	lb ai/a			
CALLISTO	0.094	lb ai/a			
COC	1	qt/a			
LIQUID N	2.5	% v/v			
7 BALANCE PRO	0.07	lb ai/a	0	97	98
AATREX	1	lb ai/a			
EQUIP CORN HERBICIDE	0.03	lb ai/a			
MSO	1	qt/a			
LIQUID N	2.5	qt/a			
8 HARNESS XTRA	1.4	lb ai/a	0	98	98
ROUNDUP WeatherMAX	0.75	lb ae/a			
AMS	17	lb ai/100 gal			
9 ROUNDUP WeatherMAX	0.75	lb ae/a	0	95	97
AMS	17	lb ai/100 gal			
ROUNDUP WeatherMAX	0.56	lb ae/a			
AMS	17	lb ai/100 gal			
10 LUMAX	2.5	lb ai/a	0	98	98
AATREX	1	lb ai/a			
11 BICEP II MAGNUM	1.65	lb ai/a	0	97	98
LUMAX	1.8	lb ai/a			
12 LUMAX	1.5	lb ai/a	0	98	98
LUMAX	1	lb ai/a			
13 BICEP II MAGNUM	2.89	lb ai/a	0	98	98
SPIRIT	0.063	lb ai/a			
COC	1	qt/a			
LIQUID N	1	qt/a			
14 BICEP II MAGNUM	2.89	lb ai/a	0	98	98
TOUCHDOWN TOTAL	0.75	lb ai/a			
AMS	17	lb ai/100 gal			
15 BICEP II MAGNUM	1.45	lb ai/a	0	98	98
TOUCHDOWN TOTAL	0.75	lb ai/a			
AMS	17	lb ai/100 gal			
16 EXPERT	3.66	lb ai/a	0	98	98
LSD (P=.05)			0.0	2.9	1.0
Standard Deviation			0.0	1.7	0.6
CV			0.0	1.88	0.64
Grand Mean			0.0	91.81	92.1
Bartlett's X2			0.0	40.638	7.294
P(Bartlett's X2)			.	0.001*	0.923

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Trt Treatment	Rate	Unit	18	19	20
Replicate F			0.000	0.063	7.348
Replicate Prob(F)			1.0000	0.9389	0.0025
Treatment F			0.000	607.385	5276.336
Treatment Prob(F)			1.0000	0.0001	0.0001

Pest Type		W Weed	W Weed
Pest Code		SETFA	CHEAL
Pest Name		Giant foxtail	Lambsquarters, commo
Crop Code	ZEAMX		
BBCH Scale	BCOR		
Crop Name	Corn		
Rating Data Type	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Days After Last Applic.	25	25	25
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

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Pest Type	W Weed	W Weed		
Pest Code	AMBTR	IPOSS		
Pest Name	Giant Ragweed	Morning glory		
Crop Code				ZEAMX
BBCH Scale				BCOR
Crop Name				Corn
Rating Data Type	CONTROL	CONTROL		YIELD
Rating Unit	PERCENT	PERCENT		BU/A
Days After Last Applic.	25	25		
Trt-Eval Interval	8 WEEK	8 WEEK		
ARM Action Codes	P	P		TY1
Number of Decimals	0	0		1
Trt Treatment	Rate	Rate		
No. Name	Rate Unit		21	22
				27
1 CHECK			0	0 37.8
2 LEXAR	2.76 lb ai/a		80	81 201.8
3 BICEP II MAGNUM	2.89 lb ai/a		94	90 226.8
CALLISTO	0.094 lb ai/a			
AATREX	0.5 lb ai/a			
COC	1 qt/a			
LIQUID N	2.5 qt/a			
4 GUARDSMAN MAX	2.19 lb ai/a		89	82 219.3
DISTINCT	0.175 lb ai/a			
ACTIVATOR 90	0.125 % v/v			
LIQUID N	2.5 qt/a			
5 KEYSTONE	3.4 lb ai/a		93	87 242.4
HORNET	0.128 lb ai/a			
ACTIVATOR 90	0.25 % v/v			
LIQUID N	2.5 qt/a			
6 CINCH ATZ	1.03 lb ai/a		95	85 228.4
STEADFAST ATZ	0.78 lb ai/a			
CALLISTO	0.094 lb ai/a			
COC	1 qt/a			
LIQUID N	2.5 % v/v			
7 BALANCE PRO	0.07 lb ai/a		85	88 217.6
AATREX	1 lb ai/a			
EQUIP CORN HERBICIDE	0.03 lb ai/a			
MSO	1 qt/a			
LIQUID N	2.5 qt/a			
8 HARNESS XTRA	1.4 lb ai/a		80	80 222.1
ROUNDUP WeatherMAX	0.75 lb ae/a			
AMS	17 lb ai/100 gal			
9 ROUNDUP WeatherMAX	0.75 lb ae/a		88	86 204.7
AMS	17 lb ai/100 gal			
ROUNDUP WeatherMAX	0.56 lb ae/a			
AMS	17 lb ai/100 gal			
10 LUMAX	2.5 lb ai/a		93	83 211.1
AATREX	1 lb ai/a			
11 BICEP II MAGNUM	1.65 lb ai/a		92	92 207.3
LUMAX	1.8 lb ai/a			
12 LUMAX	1.5 lb ai/a		93	85 223.4
LUMAX	1 lb ai/a			
13 BICEP II MAGNUM	2.89 lb ai/a		96	90 210.5
SPIRIT	0.063 lb ai/a			
COC	1 qt/a			
LIQUID N	1 qt/a			
14 BICEP II MAGNUM	2.89 lb ai/a		89	84 223.8
TOUCHDOWN TOTAL	0.75 lb ai/a			
AMS	17 lb ai/100 gal			
15 BICEP II MAGNUM	1.45 lb ai/a		86	86 218.4
TOUCHDOWN TOTAL	0.75 lb ai/a			
AMS	17 lb ai/100 gal			
16 EXPERT	3.66 lb ai/a		95	93 216.2
LSD (P=.05)			8.2	9.0 32.34
Standard Deviation			4.9	5.4 19.40
CV			5.85	6.68 9.37
Grand Mean			84.25	80.69 206.97
Bartlett's X2			14.259	10.848 6.679
P(Bartlett's X2)			0.284	0.456 0.966

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Pest Type		W Weed	W Weed	
Pest Code		AMBTR	IPOSS	
Pest Name		Giant Ragweed	Morning glory	
Crop Code				ZEAMX
BBCH Scale				BCOR
Crop Name				Corn
Rating Data Type		CONTROL	CONTROL	YIELD
Rating Unit		PERCENT	PERCENT	BU/A
Days After Last Applic.		25	25	
Trt-Eval Interval		8 WEEK	8 WEEK	
ARM Action Codes		P	P	TY1
Number of Decimals		0	0	1
<hr/>				
Trt Treatment				
No. Name	Rate	Unit		
			21	22 27
<hr/>				
Replicate F			0.401	3.263 3.740
Replicate Prob(F)			0.6733	0.0522 0.0355
Treatment F			65.455	49.230 17.043
Treatment Prob(F)			0.0001	0.0001 0.0001

Column 23: TY1 = 4.321429*[24]*(100-[25])/85

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Weed Science Field Research

CORN PREEMERGENCE ROUNDUP READY

Trial ID: C4030
Location: LEXINGTON, KYStudy Director: CHARLES H. SLACK
Investigator: Charles H. Slack**General Trial Information**Study Director: CHARLES H. SLACK
Affiliation: UNIVERSITY OF KENTUCKY
Postal Code: 40546
Investigator: Charles H. Slack**Trial Location**City: LEXINGTON Trial Status: COMPLETE
State/Prov.: KENTUCKY
Postal Code: 40511 Initiation Date: 4-27-04
Directions:

Objectives:

Conclusions:

Crop DescriptionCrop 1: ZEAMX Zea mays Corn
Variety: DKC 64-11 RR
BBCH Scale: BCOR Planting Date: 4-27-04
Planting Method: ROW Rate, Unit: 28000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM Soil Temperature, Unit: 57 F
Soil Moisture: SLIGHTLY WET Emergence Date: 5-2-04
Harvest Date: 9-24-04 Harvest Equipment: COMBINE
Harvested Width, Unit: 60 IN Harvested Length, Unit: 37 FT**Pest Description**Pest 1 Type: W Code: SETFA Setaria faberi
Common Name: Giant Foxtail
Pest 2 Type: W Code: AMBTR Ambrosia trifida
Common Name: Giant Ragweed
Pest 3 Type: W Code: IPOSS Ipomoea sp.
Common Name: Morning glory
Pest 4 Type: W Code: CHEAL Chenopodium album
Common Name: Lambsquarters, common**Site and Design**Plot Width, Unit: 10 FT Site Type: FIELD
Plot Length, Unit: 44 FT Tillage Type: CONVENTIONAL-TILL
Replications: 3 Study Design: Randomized Complete Block

Trial Initiation Comments:

Field Prep./Maintenance:

Soil Description% Sand: 6 % OM: 2.6 Texture: SITL LOAM
% Silt: 62 pH: 6.4 Soil Name: MAURY
% Clay: 32 CEC: 17 Fert. Level: EXCELLENT**Moisture Conditions**Overall Moisture Conditions: NORMAL
Closest Weather Station: SPINDLETOP Distance: 1.5 Unit: MI

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Weed Science Field Research

Application Description

	A		B		C	
Application Date:	4-27-04		5-21-04		6-17-04	
Time of Day:	1:00		10:00		1:00	
Application Method:	SPRAY		SPRAY		SPRAY	
Application Timing:	PRE		MP		+14D	
Application Placement:	BROSOI		BROFOL		BROFOL	
Air Temperature, Unit:	48 F		76 F		78 F	
% Relative Humidity:	59		81		82	
Wind Velocity, Unit:	3 MPH		4 MPH		4 MPH	
Dew Presence (Y/N):	N		N		N	
Soil Temperature, Unit:	57 F		74 F		80 F	
Soil Moisture:	ADEQUATE		ADEQUATE		ADEQUATE	
% Cloud Cover:	10		10		20	

Crop Stage At Each Application

	A		B		C	
Crop 1 Code, BBCH Scale:	ZEAMX	BCOR	ZEAMX	BCOR	ZEAMX	BCOR
Stage Scale Used:	BBCH		BBCH		BBCH	
Height, Unit:			10	IN	18	IN

Pest Stage At Each Application

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

Application Equipment

	A		B		C	
Appl. Equipment:	ATV		BACKPACK		BACKPACK	
Operating Pressure:	30		30		30	
Pressure Unit:	PSI		PSI		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:	19 IN		25 IN		30 IN	
Ground Speed, Unit:	4 MPH		3.5 MPH		3.5 MPH	
Carrier:	WATER		WATER		WATER	
Spray Volume:	24		24		24	
Volume Unit:	GPA		GPA		GPA	
Propellant:	CO2		CO2		CO2	

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

CORN POSTEMERGENCE ROUNDUP

Trial ID: C4031
Location: LEXINGTON, KY

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

Pest Type	W Weed	W Weed	W Weed
Pest Code	SETFA	CHEAL	AMBTR
Pest Name	Giant foxtail Lambsquarters, commo Giant Ragweed		
Crop Code	ZEAMX		
BBCH Scale	BCOR		
Crop Name	Corn		
Rating Data Type	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt No.	Treatment	Rate	Unit	1	2	3	4
1	ROUNDUP WeatherMAX	22	fl oz/a	0	97	96	90
	AMS	2	lb/a				
2	ROUNDUP WeatherMAX	22	fl oz/a	3	97	96	90
	RIMSULFURON	0.25	oz ai/a				
	AMS	2	lb/a				
3	ROUNDUP WeatherMAX	22	fl oz/a	0	97	97	92
	RIMSULFURON	0.375	oz ai/a				
	DPX X4145	0.25	oz ai/a				
	AMS	2	lb/a				
4	ROUNDUP WeatherMAX	22	fl oz/a	3	97	97	90
	RIMSULFURON	0.375	oz ai/a				
	THIFENSULFURON	0.0625	oz ai/a				
	DPX X4145	0.25	oz ai/a				
	AMS	2	lb/a				
5	ROUNDUP WeatherMAX	22	fl oz/a	0	97	96	93
	RIMSULFURON	0.375	oz ai/a				
	CLARITY	2	oz ai/a				
	DPX X4145	0.25	oz ai/a				
	AMS	2	lb/a				
6	ROUNDUP WeatherMAX	22	fl oz/a	0	97	97	83
	RIMSULFURON	0.375	oz ai/a				
	AATREX	0.5	lb ai/a				
	DPX X4145	0.25	oz ai/a				
	AMS	2	lb/a				
7	ROUNDUP WeatherMAX	22	fl oz/a	0	97	97	94
	CINCH	1	pt/a				
	AMS	2	lb/a				
8	ROUNDUP WeatherMAX	22	fl oz/a	0	98	98	90
	CINCH ATZ	1.1	qt/a				
	AMS	2	lb/a				
9	STEADFAST ATZ	14	oz/a	3	97	97	96
	CALLISTO	2	oz/a				
	COC	1	qt/a				
	AMS	2	lb/a				
10	STEADFAST	0.75	oz/a	0	97	97	87
	ACTIVATOR 90	0.25	% v/v				
	AMS	2	lb/a				
11	STEADFAST	0.75	oz/a	0	98	98	98
	LUMAX	24	oz/a				
	ACTIVATOR 90	0.25	% v/v				
12	STEADFAST	0.75	oz/a	0	98	98	98
	CINCH ATZ	1	qt/a				
	CALLISTO	1.5	oz/a				
	ACTIVATOR 90	0.25	% v/v				
	AMS	2	lb/a				
13	STEADFAST ATZ	14	oz/a	0	98	98	98
	CALLISTO	1.5	oz/a				
	COC	1	qt/a				
	AMS	2	lb/a				

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 Weed Science Field Research

Pest Type	W Weed	W Weed	W Weed
Pest Code	SETFA	CHEAL	AMBTR
Pest Name	Giant foxtail	Lambsquarters,	commo Giant Ragweed
Crop Code	ZEAMX		
BBCH Scale	BCOR		
Crop Name	Corn		
Rating Data Type	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK
ARM Action Codes	P	P	P
Number of Decimals	0	0	0
Trt Treatment	Rate	Rate	
No. Name	Rate	Unit	
14 CHECK UNTREATED			
			1 2 3 4
			0 0 0 0
LSD (P=.05)	4.5		1.4 1.8 5.0
Standard Deviation	2.7		0.9 1.1 3.0
CV	374.17		0.95 1.18 3.5
Grand Mean	0.71		90.36 90.14 85.62
Bartlett's X2	0.0		0.0 3.207
P(Bartlett's X2)	0.001*		1.00 0.921
Replicate F	1.000		23.400 10.739 2.639
Replicate Prob(F)	0.3816		0.0001 0.0004 0.0905
Treatment F	0.846		2736.289 1776.928 208.936
Treatment Prob(F)	0.6126		0.0001 0.0001 0.0001

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

Pest Type			W Weed		W Weed		W Weed
Pest Code			IPOSS		SETFA		CHEAL
Pest Name			Morning glory		Giant foxtail		Lambsquarters, commo
Crop Code					ZEAMX		
BBCH Scale					BCOR		
Crop Name					Corn		
Rating Data Type			CONTROL	INJURY	CONTROL		CONTROL
Rating Unit			PERCENT	PERCENT	PERCENT		PERCENT
Trt-Eval Interval			2 WEEK	4 WEEK	4 WEEK		4 WEEK
ARM Action Codes			P	P	P		P
Number of Decimals			0	0	0		0
Trt Treatment	Rate	Rate					
No. Name		Unit	5	6	7		8
1 ROUNDUP WeatherMAX	22 fl oz/a		92	0	93		93
AMS	2 lb/a						
2 ROUNDUP WeatherMAX	22 fl oz/a		90	0	94		96
RIMSULFURON	0.25 oz ai/a						
AMS	2 lb/a						
3 ROUNDUP WeatherMAX	22 fl oz/a		90	0	97		97
RIMSULFURON	0.375 oz ai/a						
DPX X4145	0.25 oz ai/a						
AMS	2 lb/a						
4 ROUNDUP WeatherMAX	22 fl oz/a		92	0	97		97
RIMSULFURON	0.375 oz ai/a						
THIFENSULFURON	0.0625 oz ai/a						
DPX X4145	0.25 oz ai/a						
AMS	2 lb/a						
5 ROUNDUP WeatherMAX	22 fl oz/a		94	0	97		96
RIMSULFURON	0.375 oz ai/a						
CLARITY	2 oz ai/a						
DPX X4145	0.25 oz ai/a						
AMS	2 lb/a						
6 ROUNDUP WeatherMAX	22 fl oz/a		90	0	97		97
RIMSULFURON	0.375 oz ai/a						
AATREX	0.5 lb ai/a						
DPX X4145	0.25 oz ai/a						
AMS	2 lb/a						
7 ROUNDUP WeatherMAX	22 fl oz/a		95	0	97		97
CINCH	1 pt/a						
AMS	2 lb/a						
8 ROUNDUP WeatherMAX	22 fl oz/a		93	0	98		98
CINCH ATZ	1.1 qt/a						
AMS	2 lb/a						
9 STEADFAST ATZ	14 oz/a		97	0	95		98
CALLISTO	2 oz/a						
COC	1 qt/a						
AMS	2 lb/a						
10 STEADFAST	0.75 oz/a		90	0	95		97
ACTIVATOR 90	0.25 % v/v						
AMS	2 lb/a						
11 STEADFAST	0.75 oz/a		96	0	95		98
LUMAX	24 oz/a						
ACTIVATOR 90	0.25 % v/v						
12 STEADFAST	0.75 oz/a		98	0	98		98
CINCH ATZ	1 qt/a						
CALLISTO	1.5 oz/a						
ACTIVATOR 90	0.25 % v/v						
AMS	2 lb/a						
13 STEADFAST ATZ	14 oz/a		98	0	98		98
CALLISTO	1.5 oz/a						
COC	1 qt/a						
AMS	2 lb/a						
14 CHECK UNTREATED			0	0	0		0
LSD (P=.05)			3.6	0.0	4.8		2.2
Standard Deviation			2.1	0.0	2.8		1.3
CV			2.45	0.0	3.17		1.48
Grand Mean			86.79	0.0	89.43		90.02
Bartlett's X2			3.287	0.0	7.228		1.067
P(Bartlett's X2)			0.772	.	0.613		0.994

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Trt Treatment	Rate	Rate	5	6	7	8
No. Name		Unit				
Replicate F			3.061	0.000	1.530	3.460
Replicate Prob(F)			0.0640	1.0000	0.2354	0.0465
Treatment F			421.647	0.000	248.426	1132.848
Treatment Prob(F)			0.0001	1.0000	0.0001	0.0001

Pest Type	W Weed	W Weed	W Weed
Pest Code	IPOSS	SETFA	CHEAL
Pest Name	Morning glory	Giant foxtail	Lambsquarters, commo
Crop Code		ZEAMX	
BBCH Scale		BCOR	
Crop Name		Corn	
Rating Data Type	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEK	4 WEEK	4 WEEK
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

Pest Type	W Weed	W Weed	W Weed			
Pest Code	AMBTR	IPOSS	SETFA			
Pest Name	Giant Ragweed	Morning glory	Giant foxtail			
Crop Code			ZEAMX			
BBCH Scale			BCOR			
Crop Name			Corn			
Rating Data Type	CONTROL	CONTROL	INJURY			
Rating Unit	PERCENT	PERCENT	PERCENT			
Trt-Eval Interval	4 WEEK	4 WEEK	8 WEEK			
ARM Action Codes	P	P	P			
Number of Decimals	0	0	0			
Trt Treatment	Rate	Rate				
No. Name	Rate	Unit	9	10	11	12
1 ROUNDUP WeatherMAX	22	fl oz/a	85	82	0	93
AMS		2 lb/a				
2 ROUNDUP WeatherMAX	22	fl oz/a	87	85	0	94
RIMSULFURON	0.25	oz ai/a				
AMS		2 lb/a				
3 ROUNDUP WeatherMAX	22	fl oz/a	88	85	0	97
RIMSULFURON	0.375	oz ai/a				
DPX X4145	0.25	oz ai/a				
AMS		2 lb/a				
4 ROUNDUP WeatherMAX	22	fl oz/a	92	87	0	97
RIMSULFURON	0.375	oz ai/a				
THIFENSULFURON	0.0625	oz ai/a				
DPX X4145	0.25	oz ai/a				
AMS		2 lb/a				
5 ROUNDUP WeatherMAX	22	fl oz/a	91	92	0	97
RIMSULFURON	0.375	oz ai/a				
CLARITY		2 oz ai/a				
DPX X4145	0.25	oz ai/a				
AMS		2 lb/a				
6 ROUNDUP WeatherMAX	22	fl oz/a	85	87	0	97
RIMSULFURON	0.375	oz ai/a				
AATREX	0.5	lb ai/a				
DPX X4145	0.25	oz ai/a				
AMS		2 lb/a				
7 ROUNDUP WeatherMAX	22	fl oz/a	88	88	0	97
CINCH		1 pt/a				
AMS		2 lb/a				
8 ROUNDUP WeatherMAX	22	fl oz/a	87	90	0	98
CINCH ATZ	1.1	qt/a				
AMS		2 lb/a				
9 STEADFAST ATZ	14	oz/a	95	94	0	95
CALLISTO		2 oz/a				
COC		1 qt/a				
AMS		2 lb/a				
10 STEADFAST	0.75	oz/a	73	85	0	95
ACTIVATOR 90	0.25	% v/v				
AMS		2 lb/a				
11 STEADFAST	0.75	oz/a	90	90	0	95
LUMAX		24 oz/a				
ACTIVATOR 90	0.25	% v/v				
12 STEADFAST	0.75	oz/a	92	97	0	98
CINCH ATZ		1 qt/a				
CALLISTO		1.5 oz/a				
ACTIVATOR 90	0.25	% v/v				
AMS		2 lb/a				
13 STEADFAST ATZ	14	oz/a	94	94	0	98
CALLISTO		1.5 oz/a				
COC		1 qt/a				
AMS		2 lb/a				
14 CHECK UNTREATED			0	0	0	0
LSD (P=.05)			6.4	6.3	0.0	4.8
Standard Deviation			3.8	3.7	0.0	2.8
CV			4.64	4.52	0.0	3.17
Grand Mean			82.0	82.55	0.0	89.43
Bartlett's X2			5.823	4.12	0.0	7.228
P(Bartlett's X2)			0.885	0.966	.	0.613

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

Pest Type		W Weed	W Weed		W Weed
Pest Code		AMBTR	IPOSS		SETFA
Pest Name		Giant Ragweed	Morning glory		Giant foxtail
Crop Code				ZEAMX	
BBCH Scale				BCOR	
Crop Name				Corn	
Rating Data Type		CONTROL	CONTROL	INJURY	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval		4 WEEK	4 WEEK	8 WEEK	8 WEEK
ARM Action Codes		P	P	P	P
Number of Decimals		0	0	0	0
<hr/>					
Trt Treatment					
No. Name	Rate	Unit	9	10	11
					12
<hr/>					
Replicate F			2.517	1.507	0.000
Replicate Prob(F)			0.1002	0.2402	1.0000
Treatment F			121.082	125.442	0.000
Treatment Prob(F)			0.0001	0.0001	1.0000
					0.0001

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Weed Science Field Research

Pest Type			W Weed	W Weed	W Weed	
Pest Code			CHEAL	AMBTR	IPOSS	
Pest Name			Lambsquarters,	commo Giant Ragweed	Morning glory	
Crop Code						ZEAMX
BBCH Scale						BCOR
Crop Name						Corn
Rating Data Type			CONTROL	CONTROL	CONTROL	YIELD
Rating Unit			PERCENT	PERCENT	PERCENT	BU/A
Trt-Eval Interval			8 WEEK	8 WEEK	8 WEEK	
ARM Action Codes			P	P	P	TY1
Number of Decimals			0	0	0	1
Trt Treatment	Rate	Rate				
No. Name	Rate	Unit	13	14	15	20
1 ROUNDUP WeatherMAX	22 fl oz/a		93	75	75	217.9
AMS	2 lb/a					
2 ROUNDUP WeatherMAX	22 fl oz/a		96	82	82	249.2
RIMSULFURON	0.25 oz ai/a					
AMS	2 lb/a					
3 ROUNDUP WeatherMAX	22 fl oz/a		97	80	78	241.4
RIMSULFURON	0.375 oz ai/a					
DPX X4145	0.25 oz ai/a					
AMS	2 lb/a					
4 ROUNDUP WeatherMAX	22 fl oz/a		97	85	80	235.7
RIMSULFURON	0.375 oz ai/a					
THIFENSULFURON	0.0625 oz ai/a					
DPX X4145	0.25 oz ai/a					
AMS	2 lb/a					
5 ROUNDUP WeatherMAX	22 fl oz/a		96	85	90	240.2
RIMSULFURON	0.375 oz ai/a					
CLARITY	2 oz ai/a					
DPX X4145	0.25 oz ai/a					
AMS	2 lb/a					
6 ROUNDUP WeatherMAX	22 fl oz/a		97	83	83	205.4
RIMSULFURON	0.375 oz ai/a					
AATREX	0.5 lb ai/a					
DPX X4145	0.25 oz ai/a					
AMS	2 lb/a					
7 ROUNDUP WeatherMAX	22 fl oz/a		97	82	80	230.3
CINCH	1 pt/a					
AMS	2 lb/a					
8 ROUNDUP WeatherMAX	22 fl oz/a		98	82	83	222.8
CINCH ATZ	1.1 qt/a					
AMS	2 lb/a					
9 STEADFAST ATZ	14 oz/a		98	93	90	222.9
CALLISTO	2 oz/a					
COC	1 qt/a					
AMS	2 lb/a					
10 STEADFAST	0.75 oz/a		97	62	77	173.2
ACTIVATOR 90	0.25 % v/v					
AMS	2 lb/a					
11 STEADFAST	0.75 oz/a		98	82	85	202.3
LUMAX	24 oz/a					
ACTIVATOR 90	0.25 % v/v					
12 STEADFAST	0.75 oz/a		98	88	92	206.1
CINCH ATZ	1 qt/a					
CALLISTO	1.5 oz/a					
ACTIVATOR 90	0.25 % v/v					
AMS	2 lb/a					
13 STEADFAST ATZ	14 oz/a		98	92	88	217.6
CALLISTO	1.5 oz/a					
COC	1 qt/a					
AMS	2 lb/a					
14 CHECK UNTREATED			0	0	0	58.9
LSD (P=.05)			2.2	7.6	6.8	47.41
Standard Deviation			1.3	4.5	4.0	28.24
CV			1.48	5.95	5.21	13.52
Grand Mean			90.02	76.36	77.38	208.85
Bartlett's X2			1.067	7.796	6.487	13.901
P(Bartlett's X2)			0.994	0.731	0.593	0.381

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

Pest Type	W Weed	W Weed	W Weed	
Pest Code	CHEAL	AMBTR	IPOSS	
Pest Name	Lambsquarters, commo	Giant Ragweed	Morning glory	
Crop Code				ZEAMX
BBCH Scale				BCOR
Crop Name				Corn
Rating Data Type	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	BU/A
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	
ARM Action Codes	P	P	P	TY1
Number of Decimals	0	0	0	1
Trt Treatment	Rate	Rate		
No. Name			13	14
			15	20
Replicate F	3.460	3.021	1.355	6.831
Replicate Prob(F)	0.0465	0.0661	0.2756	0.0041
Treatment F	1132.848	78.388	96.518	8.453
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0001

Column 16: TY1 = 4.204633*[17]*(100-[18])/85

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

CORN POSTEMERGENCE ROUNDUP

Trial ID: C4031
Location: LEXINGTON, KY

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

General Trial Information

Study Director: CHARLES H. SLACK
Affiliation: UNIVERSITY OF KENTUCKY
Postal Code: 40546
Investigator: Charles H. Slack

Trial Location

City: LEXINGTON **Trial Status:** COMPLETE
State/Prov.: KENTUCKY
Postal Code: 40511 **Initiation Date:** 4-27-04
Directions:

Objectives:

Conclusions:

Crop Description

Crop 1: ZEAMX Zea mays **Corn**
Variety: DKC 64-11 RR
BBCH Scale: BCOR **Planting Date:** 4-27-04
Planting Method: ROW **Rate, Unit:** 28000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM **Soil Temperature, Unit:** 57 F
Soil Moisture: SLIGHTLY WET **Emergence Date:** 5-2-04
Harvest Date: 9-24-04 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 60 IN **Harvested Length, Unit:** 37 FT

Pest Description

Pest 1 Type: W **Code:** SETFA **Setaria faberi**
Common Name: Giant Foxtail
Pest 2 Type: W **Code:** CHEAL **Chenopodium album**
Common Name: Lambsquarters, common
Pest 3 Type: W **Code:** AMBTR **Ambrosia trifida**
Common Name: Giant Ragweed
Pest 4 Type: W **Code:** IPOSS **Ipomoea sp.**
Common Name: Morning glory

Site and Design

Plot Width, Unit: 5 FT **Site Type:** FIELD
Plot Length, Unit: 44 FT **Tillage Type:** CONVENTIONAL-TILL
Replications: 3 **Study Design:** Randomized Complete Block

Trial Initiation Comments:

Field Prep./Maintenance:

Soil Description

% Sand: 6 **% OM:** 2.6 **Texture:** SILT LOAM
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY
% Clay: 32 **CEC:** 17 **Fert. Level:** EXCELLENT

Moisture Conditions

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

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

Application Description

	A		B
Application Date:	5-20-04		5-24-04
Time of Day:	1:00		10:00
Application Method:	SPRAY		SPRAY
Application Timing:	5C		V4
Application Placement:	BROFOL		BROFOL
Air Temperature, Unit:	75 F		74 F
% Relative Humidity:	81		78
Wind Velocity, Unit:	3 MPH		4 MPH
Dew Presence (Y/N):	N		N
Soil Temperature, Unit:	73 F		77 F
Soil Moisture:	ADEQUATE		ADEQUATE
% Cloud Cover:	10		20

Crop Stage At Each Application

	A		B
Crop 1 Code, BBCH Scale:	ZEAMX	BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH		BBCH
Height, Unit:	5	IN	12 IN

Pest Stage At Each Application

	A		B
Pest 1 Code, Disc., Scale:	SETFA	W	SETFA W
Height, Unit:	3	IN	4 IN
Pest 2 Code, Disc., Scale:	CHEAL	W	CHEAL W
Height, Unit:	3	IN	4 IN
Pest 3 Code, Disc., Scale:	AMBTR	W	AMBTR W
Height, Unit:	4	IN	6 IN
Pest 4 Code, Disc., Scale:	IPOSS	W	IPOSS W
Height, Unit:	3	IN	3.5 IN

Application Equipment

	A		B
Appl. Equipment:	BACKPACK		BACKPACK
Operating Pressure:	30		30
Pressure Unit:	PSI		PSI
Nozzle Type:	FLAT FAN		FLAT FAN
Nozzle Size:	8004 DG		8004 DG
Nozzle Spacing, Unit:	20 IN		20 IN
Boom Length, Unit:	5 FT		5 FT
Boom Height, Unit:	25 IN		30 IN
Ground Speed, Unit:	3.5 MPH		3.5 MPH
Carrier:	WATER		WATER
Spray Volume:	24		24
Volume Unit:	GPA		GPA
Propellant:	CO2		CO2

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

CORN PREEMERGENCE & POSTEMERGENCE ROUNDUP READY

Trial ID: C4032
Location: LEXINGTON, KY

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

Pest Type	W Weed	W Weed	W Weed
Pest Code	SETFA	CHEAL	AMBTR
Pest Name	Giant foxtail	Lambsquarters, commo	Giant Ragweed
Crop Code	ZEAMX		
BBCH Scale	BCOR		
Crop Name	Corn		
Rating Data Type	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt	Treatment	Rate	Rate	1	2	3	4
No.	Name	Rate	Unit				
1	BALANCE PRO	0.047	lb ai/a	0	98	96	91
	ROUNDUP WeatherMAX	22	fl oz/a				
	AMS	3.7	% v/v				
2	USA 2005	0.375	lb ai/a	0	98	97	88
	ROUNDUP WeatherMAX	22	fl oz/a				
	AMS	3.7	% v/v				
3	BALANCE PRO	0.047	lb ai/a	0	98	98	94
	AATREX	1	lb ai/a				
	ROUNDUP WeatherMAX	22	fl oz/a				
	AMS	3.7	% v/v				
4	BALANCE PRO	0.047	lb ai/a	13	94	93	87
	EQUIP CORN HERBICIDE	0.03	lb ai/a				
	LIQUID N	1.5	qt/a				
	MSO	1.5	pt/a				
5	EQUIP CORN HERBICIDE	0.03	lb ai/a	13	95	87	87
	AATREX	1	lb ai/a				
	LIQUID N	1.5	qt/a				
	MSO	1.5	pt/a				
6	ROUNDUP WeatherMAX	22	fl oz/a	0	98	96	92
	AMS	3.7	% v/v				
7	BICEP II MAGNUM	2.89	lb ai/a	0	98	98	98
	BUCTRIL/ATRA	0.75	lb ai/a				
	CALLISTO	0.023	lb ai/a				
8	DEFINE	0.56	lb ai/a	0	98	98	98
	AATREX	1.5	lb ai/a				
	BUCTRIL/ATRA	0.75	lb ai/a				
	CALLISTO	0.023	lb ai/a				
9	AXIOM	0.68	lb ai/a	0	95	98	97
	AATREX	1.5	lb ai/a				
	BUCTRIL/ATRA	0.75	lb ai/a				
	CALLISTO	0.023	lb ai/a				
10	DEFINE	0.312	lb ai/a	0	98	98	98
	AATREX	1	lb ai/a				
	EQUIP CORN HERBICIDE	0.03	lb ai/a				
	LIQUID N	1.5	qt/a				
	MSO	3	pt/a				
11	DEFINE	0.436	lb ai/a	20	97	97	96
	AATREX	1	lb ai/a				
	EQUIP CORN HERBICIDE	0.02	lb ai/a				
	MARKSMAN	1.6	lb ai/a				
	LIQUID N	1.5	qt/a				
	MSO	1.5	pt/a				
12	KEYSTONE	1.78	qt/a	0	97	97	97
	AATREX	0.5	lb ai/a				
	GF-1279	24	oz/a				
	AMS	1.5	% v/v				
13	ROUNDUP WeatherMAX	22	fl oz/a	0	97	96	87
	AMS	3.7	% v/v				
	ROUNDUP WeatherMAX	22	fl oz/a				
	AMS	3.7	% v/v				

Dept. of Agronomy, Univ. of Ky
 Weed Science Field Research

Pest Type		W Weed	W Weed	W Weed		
Pest Code		SETFA	CHEAL	AMBTR		
Pest Name		Giant foxtail	Lambsquarters, commo	Giant Ragweed		
Crop Code	ZEAMX					
BBCH Scale	BCOR					
Crop Name	Corn					
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL		
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT		
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK		
ARM Action Codes	P	P	P	P		
Number of Decimals	0	0	0	0		
Trt Treatment	Rate	Rate				
No. Name	Rate	Unit	1	2	3	4
14 CHECK UNTREATED			0	0	0	0
LSD (P=.05)			7.0	3.6	3.5	5.1
Standard Deviation			4.2	2.1	2.1	3.0
CV			125.79	2.38	2.33	3.5
Grand Mean			3.33	90.14	89.21	86.38
Bartlett's X2			0.0	4.408	7.051	7.495
P(Bartlett's X2)			1.00	0.492	0.424	0.586
Replicate F			2.167	1.822	0.810	1.751
Replicate Prob(F)			0.1348	0.1818	0.4557	0.1935
Treatment F			7.875	441.145	464.078	209.318
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0001

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

Pest Type			W Weed		W Weed		W Weed
Pest Code			IPOSS		SETFA		CHEAL
Pest Name			Morning glory		Giant foxtail		Lambsquarters, commo
Crop Code					ZEAMX		
BBCH Scale					BCOR		
Crop Name					Corn		
Rating Data Type			CONTROL	INJURY	CONTROL		CONTROL
Rating Unit			PERCENT	PERCENT	PERCENT		PERCENT
Trt-Eval Interval			2 WEEK	4 WEEK	4 WEEK		4 WEEK
ARM Action Codes			P	P	P		P
Number of Decimals			0	0	0		0
Trt Treatment	Rate	Rate					
No. Name	Rate	Unit	5	6	7		8
1 BALANCE PRO	0.047	lb ai/a	94	0	98		96
ROUNDUP WeatherMAX	22	fl oz/a					
AMS	3.7	% v/v					
2 USA 2005	0.375	lb ai/a	87	0	98		96
ROUNDUP WeatherMAX	22	fl oz/a					
AMS	3.7	% v/v					
3 BALANCE PRO	0.047	lb ai/a	96	0	98		98
AATREX	1	lb ai/a					
ROUNDUP WeatherMAX	22	fl oz/a					
AMS	3.7	% v/v					
4 BALANCE PRO	0.047	lb ai/a	87	7	94		93
EQUIP CORN HERBICIDE	0.03	lb ai/a					
LIQUID N	1.5	qt/a					
MSO	1.5	pt/a					
5 EQUIP CORN HERBICIDE	0.03	lb ai/a	88	3	91		92
AATREX	1	lb ai/a					
LIQUID N	1.5	qt/a					
MSO	1.5	pt/a					
6 ROUNDUP WeatherMAX	22	fl oz/a	90	0	98		96
AMS	3.7	% v/v					
7 BICEP II MAGNUM	2.89	lb ai/a	98	0	98		98
BUCTRIL/ATRA	0.75	lb ai/a					
CALLISTO	0.023	lb ai/a					
8 DEFINE	0.56	lb ai/a	98	0	97		97
AATREX	1.5	lb ai/a					
BUCTRIL/ATRA	0.75	lb ai/a					
CALLISTO	0.023	lb ai/a					
9 AXIOM	0.68	lb ai/a	97	0	95		97
AATREX	1.5	lb ai/a					
BUCTRIL/ATRA	0.75	lb ai/a					
CALLISTO	0.023	lb ai/a					
10 DEFINE	0.312	lb ai/a	98	0	98		98
AATREX	1	lb ai/a					
EQUIP CORN HERBICIDE	0.03	lb ai/a					
LIQUID N	1.5	qt/a					
MSO	3	pt/a					
11 DEFINE	0.436	lb ai/a	96	17	97		97
AATREX	1	lb ai/a					
EQUIP CORN HERBICIDE	0.02	lb ai/a					
MARKSMAN	1.6	lb ai/a					
LIQUID N	1.5	qt/a					
MSO	1.5	pt/a					
12 KEYSTONE	1.78	qt/a	97	0	96		95
AATREX	0.5	lb ai/a					
GF-1279	24	oz/a					
AMS	1.5	% v/v					
13 ROUNDUP WeatherMAX	22	fl oz/a	87	0	95		96
AMS	3.7	% v/v					
ROUNDUP WeatherMAX	22	fl oz/a					
AMS	3.7	% v/v					
14 CHECK UNTREATED			0	0	0		0
LSD (P=.05)			4.2	4.3	4.5		3.4
Standard Deviation			2.5	2.5	2.7		2.0
CV			2.91	132.92	2.98		2.28
Grand Mean			86.62	1.9	89.57		89.24
Bartlett's X2			4.844	0.0	6.24		4.935
P(Bartlett's X2)			0.848	0.001*	0.397		0.84

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

Pest Type	W Weed	W Weed	W Weed
Pest Code	IPOSS	SETFA	CHEAL
Pest Name	Morning glory	Giant foxtail	Lambsquarters, commo
Crop Code		ZEAMX	
BBCH Scale		BCOR	
Crop Name		Corn	
Rating Data Type	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEK	4 WEEK	4 WEEK
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt Treatment	Rate	Unit	5	6	7	8
No. Name	Rate	Unit				
Replicate F			0.609	2.600	2.600	1.191
Replicate Prob(F)			0.5512	0.0935	0.0935	0.3199
Treatment F			302.837	10.171	281.906	478.312
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0001

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

Pest Type	W Weed	W Weed	W Weed	W Weed	
Pest Code	AMBTR	IPOSS	SETFA		
Pest Name	Giant Ragweed	Morning glory	Giant foxtail		
Crop Code			ZEAMX		
BBCH Scale			BCOR		
Crop Name			Corn		
Rating Data Type	CONTROL	CONTROL	INJURY	CONTROL	
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	
Trt-Eval Interval	4 WEEK	4 WEEK	8 WEEK	8 WEEK	
ARM Action Codes	P	P	P	P	
Number of Decimals	0	0	0	0	
Trt Treatment	Rate	Rate	Rate	Rate	
No. Name	Rate Unit	9	10	11	
				12	
1 BALANCE PRO	0.047 lb ai/a	91	88	0	97
ROUNDUP WeatherMAX	22 fl oz/a				
AMS	3.7 % v/v				
2 USA 2005	0.375 lb ai/a	90	85	0	98
ROUNDUP WeatherMAX	22 fl oz/a				
AMS	3.7 % v/v				
3 BALANCE PRO	0.047 lb ai/a	95	93	0	98
AATREX	1 lb ai/a				
ROUNDUP WeatherMAX	22 fl oz/a				
AMS	3.7 % v/v				
4 BALANCE PRO	0.047 lb ai/a	88	83	0	94
EQUIP CORN HERBICIDE	0.03 lb ai/a				
LIQUID N	1.5 qt/a				
MSO	1.5 pt/a				
5 EQUIP CORN HERBICIDE	0.03 lb ai/a	86	88	0	91
AATREX	1 lb ai/a				
LIQUID N	1.5 qt/a				
MSO	1.5 pt/a				
6 ROUNDUP WeatherMAX	22 fl oz/a	93	90	0	98
AMS	3.7 % v/v				
7 BICEP II MAGNUM	2.89 lb ai/a	96	96	0	98
BUCTRIL/ATRA	0.75 lb ai/a				
CALLISTO	0.023 lb ai/a				
8 DEFINE	0.56 lb ai/a	97	95	0	95
AATREX	1.5 lb ai/a				
BUCTRIL/ATRA	0.75 lb ai/a				
CALLISTO	0.023 lb ai/a				
9 AXIOM	0.68 lb ai/a	94	94	0	95
AATREX	1.5 lb ai/a				
BUCTRIL/ATRA	0.75 lb ai/a				
CALLISTO	0.023 lb ai/a				
10 DEFINE	0.312 lb ai/a	94	93	0	98
AATREX	1 lb ai/a				
EQUIP CORN HERBICIDE	0.03 lb ai/a				
LIQUID N	1.5 qt/a				
MSO	3 pt/a				
11 DEFINE	0.436 lb ai/a	96	96	0	97
AATREX	1 lb ai/a				
EQUIP CORN HERBICIDE	0.02 lb ai/a				
MARKSMAN	1.6 lb ai/a				
LIQUID N	1.5 qt/a				
MSO	1.5 pt/a				
12 KEYSTONE	1.78 qt/a	95	94	0	96
AATREX	0.5 lb ai/a				
GF-1279	24 oz/a				
AMS	1.5 % v/v				
13 ROUNDUP WeatherMAX	22 fl oz/a	92	85	0	95
AMS	3.7 % v/v				
ROUNDUP WeatherMAX	22 fl oz/a				
AMS	3.7 % v/v				
14 CHECK UNTREATED		0	0	0	0
LSD (P=.05)		5.8	8.5	0.0	4.8
Standard Deviation		3.4	5.1	0.0	2.9
CV		3.99	6.0	0.0	3.22
Grand Mean		86.26	84.43	0.0	89.38
Bartlett's X2		7.048	17.909	0.0	6.246
P(Bartlett's X2)		0.795	0.084	.	0.511

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	IPOSS		SETFA
Pest Name	Giant Ragweed	Morning glory		Giant foxtail
Crop Code			ZEAMX	
BBCH Scale			BCOR	
Crop Name			Corn	
Rating Data Type	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	4 WEEK	4 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0
Trt Treatment	Rate	Rate	Rate	Rate
No. Name				
		9	10	11
				12
Replicate F		3.632	1.789	0.000
Replicate Prob(F)		0.0406	0.1871	1.0000
Treatment F		158.714	71.268	0.000
Treatment Prob(F)		0.0001	0.0001	1.0000

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Weed Science Field Research

Pest Type			W Weed	W Weed	W Weed
Pest Code			CHEAL	AMBTR	IPOSS
Pest Name			Lambsquarters,	commo Giant Ragweed	Morning glory
Crop Code					
BBCH Scale					
Crop Name					
Rating Data Type			CONTROL	CONTROL	CONTROL
Rating Unit			PERCENT	PERCENT	PERCENT
Trt-Eval Interval			8 WEEK	8 WEEK	8 WEEK
ARM Action Codes			P	P	P
Number of Decimals			0	0	0
Trt Treatment	Rate	Rate			
No. Name	Rate	Unit	13	14	15
1 BALANCE PRO	0.047	lb ai/a	96	89	85
ROUNDUP WeatherMAX	22	fl oz/a			
AMS	3.7	% v/v			
2 USA 2005	0.375	lb ai/a	96	87	82
ROUNDUP WeatherMAX	22	fl oz/a			
AMS	3.7	% v/v			
3 BALANCE PRO	0.047	lb ai/a	98	88	87
AATREX	1	lb ai/a			
ROUNDUP WeatherMAX	22	fl oz/a			
AMS	3.7	% v/v			
4 BALANCE PRO	0.047	lb ai/a	93	86	78
EQUIP CORN HERBICIDE	0.03	lb ai/a			
LIQUID N	1.5	qt/a			
MSO	1.5	pt/a			
5 EQUIP CORN HERBICIDE	0.03	lb ai/a	92	83	87
AATREX	1	lb ai/a			
LIQUID N	1.5	qt/a			
MSO	1.5	pt/a			
6 ROUNDUP WeatherMAX	22	fl oz/a	96	90	88
AMS	3.7	% v/v			
7 BICEP II MAGNUM	2.89	lb ai/a	98	92	91
BUCTRIL/ATRA	0.75	lb ai/a			
CALLISTO	0.023	lb ai/a			
8 DEFINE	0.56	lb ai/a	97	94	90
AATREX	1.5	lb ai/a			
BUCTRIL/ATRA	0.75	lb ai/a			
CALLISTO	0.023	lb ai/a			
9 AXIOM	0.68	lb ai/a	97	93	92
AATREX	1.5	lb ai/a			
BUCTRIL/ATRA	0.75	lb ai/a			
CALLISTO	0.023	lb ai/a			
10 DEFINE	0.312	lb ai/a	98	92	89
AATREX	1	lb ai/a			
EQUIP CORN HERBICIDE	0.03	lb ai/a			
LIQUID N	1.5	qt/a			
MSO	3	pt/a			
11 DEFINE	0.436	lb ai/a	97	92	88
AATREX	1	lb ai/a			
EQUIP CORN HERBICIDE	0.02	lb ai/a			
MARKSMAN	1.6	lb ai/a			
LIQUID N	1.5	qt/a			
MSO	1.5	pt/a			
12 KEYSTONE	1.78	qt/a	95	90	90
AATREX	0.5	lb ai/a			
GF-1279	24	oz/a			
AMS	1.5	% v/v			
13 ROUNDUP WeatherMAX	22	fl oz/a	96	93	87
AMS	3.7	% v/v			
ROUNDUP WeatherMAX	22	fl oz/a			
AMS	3.7	% v/v			
14 CHECK UNTREATED			0	0	0
LSD (P=.05)			3.4	7.3	8.7
Standard Deviation			2.0	4.4	5.2
CV			2.28	5.23	6.4
Grand Mean			89.24	83.52	80.98
Bartlett's X2			4.935	4.462	15.024
P(Bartlett's X2)			0.84	0.974	0.181

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

Pest Type		W Weed	W Weed	W Weed	
Pest Code		CHEAL	AMBTR	IPOSS	
Pest Name		Lambsquarters, commo	Giant Ragweed	Morning glory	
Crop Code					
BBCH Scale					
Crop Name					
Rating Data Type		CONTROL	CONTROL	CONTROL	
Rating Unit		PERCENT	PERCENT	PERCENT	
Trt-Eval Interval		8 WEEK	8 WEEK	8 WEEK	
ARM Action Codes		P	P	P	
Number of Decimals		0	0	0	
Trt Treatment					
No. Name	Rate	Unit	13	14	15
Replicate F			1.191	5.354	1.187
Replicate Prob(F)			0.3199	0.0113	0.3211
Treatment F			478.312	92.384	62.159
Treatment Prob(F)			0.0001	0.0001	0.0001

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

CORN PREEMERGENCE & POSTEMERGENCE ROUNDUP READY

Trial ID: C4032
Location: LEXINGTON, KY

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

General Trial Information

Study Director: CHARLES H. SLACK
Affiliation: UNIVERSITY OF KENTUCKY
Postal Code: 40546
Investigator: Charles H. Slack

Trial Location

City: LEXINGTON **Trial Status:** COMPLETE
State/Prov.: KENTUCKY
Postal Code: 40511 **Initiation Date:** 4-27-04
Directions:

Objectives:

Conclusions:

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC 64-11 RR
BBCH Scale: BCOR **Planting Date:** 4-27-04
Planting Method: ROW **Rate, Unit:** 28000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM **Soil Temperature, Unit:** 57 F
Soil Moisture: SLIGHTLY WET **Emergence Date:** 5-2-04

Pest Description

Pest 1 Type: W **Code:** SETFA *Setaria faberi*
Common Name: Giant Foxtail
Pest 2 Type: W **Code:** CHEAL *Chenopodium album*
Common Name: Lambsquarters, common
Pest 3 Type: W **Code:** AMBTR *Ambrosia trifida*
Common Name: Giant Ragweed
Pest 4 Type: W **Code:** IPOSS *Ipomoea sp.*
Common Name: Morning glory

Site and Design

Plot Width, Unit: 5 FT **Site Type:** FIELD
Plot Length, Unit: 44 FT **Tillage Type:** CONVENTIONAL-TILL
Replications: 3 **Study Design:** Randomized Complete Block

Trial Initiation Comments:

Field Prep./Maintenance:

Soil Description

% Sand: 6 **% OM:** 2.6 **Texture:** SILT LOAM
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY
% Clay: 32 **CEC:** 17 **Fert. Level:** EXCELLENT

Moisture Conditions

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

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

Application Description

	A		B		C		D		E	
Application Date:	4-27-04		5-21-04		5-27-04		5-28-04		6-17-04	
Time of Day:	10:00		1:00		11:00		10:00		1:00	
Application Method:	SPRAY		SPRAY		SPRAY		SPRAY		SPRAY	
Application Timing:	PRE		MP		LMP		LP		+2WK	
Application Placement:	BROSOI		BROFOL		BROFOL		BROFOL		BROFOL	
Air Temperature, Unit:	48	F	76	F	71	F	69	F	78	F
% Relative Humidity:	59		81		83		75		82	
Wind Velocity, Unit:	5	MPH	2	MPH	3	MPH	4	MPH	3	MPH
Dew Presence (Y/N):	N		N		N		N		N	
Soil Temperature, Unit:	57	F	74	F	72	F	73	F	80	F
Soil Moisture:	ADEQUATE		ADEQUATE		ADEQUATE		ADEQUATE		ADEQUATE	
% Cloud Cover:	20		10		20		10		20	

Crop Stage At Each Application

	A		B		C		D		E	
Crop 1 Code, BBCH Scale:	ZEAMX	BCOR	ZEAMX	BCOR	ZEAMX	BCOR	ZEAMX	BCOR	ZEAMX	BCOR
Stage Scale Used:	BBCH		BBCH		BBCH		BBCH		BBCH	
Height, Unit:	10		IN 12		IN 12		IN 18		IN	

Pest Stage At Each Application

	A		B		C		D		E	
Pest 1 Code, Disc., Scale:	SETFA	W SETFA	W SETFA	W SETFA	W SETFA	W SETFA	W SETFA	W SETFA	W	W
Height, Unit:	4		IN 5		IN 5		IN 8		IN	
Pest 2 Code, Disc., Scale:	CHEAL	W CHEAL	W CHEAL	W CHEAL	W CHEAL	W CHEAL	W CHEAL	W CHEAL	W	W
Height, Unit:	3		IN 5		IN 5		IN 7		IN	
Pest 3 Code, Disc., Scale:	AMBTR	W AMBTR	W AMBTR	W AMBTR	W AMBTR	W AMBTR	W AMBTR	W AMBTR	W	W
Height, Unit:	4		IN 5		IN 5		IN 8		IN	
Pest 4 Code, Disc., Scale:	IPOSS	W IPOSS	W IPOSS	W IPOSS	W IPOSS	W IPOSS	W IPOSS	W IPOSS	W	W
Height, Unit:	3		IN 4		IN 4		IN 6		IN	

Application Equipment

	A		B		C		D		E	
Appl. Equipment:	ATV		BACKPACK		BACKPACK		BACKPACK		BACKPACK	
Operating Pressure:	30		30		30		30		30	
Pressure Unit:	PSI		PSI		PSI		PSI		PSI	
Nozzle Type:	FLAT	FAN	FLAT	FAN	FLAT	FAN	FLAT	FAN	FLAT	FAN
Nozzle Size:	8004	DG	8004	DG	8004	DG	8004	DG	8004	DG
Nozzle Spacing, Unit:	20	IN	20	IN	20	IN	20	IN	20	IN
Boom Length, Unit:	5	FT	5	FT	5	FT	5	FT	5	FT
Boom Height, Unit:	19	IN	25	IN	30	IN	30	IN	36	IN
Ground Speed, Unit:	4	MPH	3.5	MPH	3.5	MPH	3.5	MPH	3.5	MPH
Carrier:	WATER		WATER		WATER		WATER		WATER	
Spray Volume:	24		24		24		24		24	
Volume Unit:	GPA		GPA		GPA		GPA		GPA	
Propellant:	CO2		CO2		CO2		CO2		CO2	

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

CORN PREEMERGENCE & POSTEMERGENCE ROUNDUP READY II

Trial ID: C4033
Location: LEXINGTON, KY

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

Pest Type	W Weed	W Weed	W Weed
Pest Code	SETFA	CHEAL	AMBTR
Pest Name	Giant foxtail	Lambsquarters, commo	Giant Ragweed
Crop Code	ZEAMX		
BBCH Scale	BCOR		
Crop Name	Corn		
Rating Data Type	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt Treatment	Rate	Unit	1	2	3	4
No. Name	Rate	Unit				
1 CHECK UNTREATED			0	0	0	0
2 DUAL II MAGNUM	0.955	lb ai/a	0	97	85	33
3 DUAL II MAGNUM	1.91	lb ai/a	0	98	90	50
4 MANA-282	0.985	lb ai/a	0	73	77	47
5 MANA-282	1.97	lb ai/a	0	96	85	33
6 MANA-282	2.96	lb ai/a	0	97	70	23
7 MANA-282	0.985	lb ai/a	0	94	52	17
ROUNDUP WeatherMAX	0.75	lb ai/a				
AMS	3.7	% v/v				
8 MANA-282	1.97	lb ai/a	0	97	68	17
ROUNDUP WeatherMAX	0.75	lb ai/a				
AMS	3.7	% v/v				
9 MANA-282	2.96	lb ai/a	0	98	53	17
ROUNDUP WeatherMAX	0.75	lb ai/a				
AMS	3.7	% v/v				
10 DUAL II MAGNUM	0.955	lb ai/a	0	97	80	20
ROUNDUP WeatherMAX	0.75	lb ai/a				
AMS	3.7	% v/v				
11 DUAL II MAGNUM	1.91	lb ai/a	0	97	88	43
ROUNDUP WeatherMAX	0.75	lb ai/a				
AMS	3.7	% v/v				
12 MANA-283	1.94	lb ai/a	0	97	97	60
13 MANA-283	2.91	lb ai/a	0	98	98	80
14 MANA-283	3.58	lb ai/a	0	98	98	92
15 MANA-283	1.94	lb ai/a	0	98	98	86
ROUNDUP WeatherMAX	0.75	lb ai/a				
AMS	3.7	% v/v				
16 MANA-283	2.91	lb ai/a	0	98	98	86
ROUNDUP WeatherMAX	0.75	lb ai/a				
AMS	3.7	% v/v				
17 MANA-283	3.58	lb ai/a	0	98	98	93
ROUNDUP WeatherMAX	0.75	lb ai/a				
AMS	3.7	% v/v				
18 BICEP II MAGNUM	1.79	lb ai/a	0	97	97	82
ROUNDUP WeatherMAX	0.75	lb ai/a				
AMS	3.7	% v/v				
19 BICEP II MAGNUM	2.68	lb ai/a	0	98	98	69
ROUNDUP WeatherMAX	0.75	lb ai/a				
AMS	3.7	% v/v				
20 BICEP II MAGNUM	3.58	lb ai/a	0	98	98	95
ROUNDUP WeatherMAX	0.75	lb ai/a				
AMS	3.7	% v/v				
LSD (P=.05)			0.0	7.8	16.0	21.0
Standard Deviation			0.0	4.7	9.7	12.7
CV			0.0	5.16	11.9	24.39
Grand Mean			0.0	91.23	81.42	52.15
Bartlett's X2			0.0	37.77	29.235	23.743
P(Bartlett's X2)			.	0.001*	0.001*	0.127
Replicate F			0.000	1.280	1.492	4.065
Replicate Prob(F)			1.0000	0.2898	0.2377	0.0251
Treatment F			0.000	66.524	18.825	18.118
Treatment Prob(F)			1.0000	0.0001	0.0001	0.0001

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Pest Type			W Weed	W Weed	W Weed	
Pest Code			SETFA	CHEAL	AMBTR	
Pest Name			Giant foxtail	Lambsquarters, commo	Giant Ragweed	
Crop Code		ZEAMX				
BBCH Scale		BCOR				
Crop Name		Corn				
Rating Data Type		INJURY	CONTROL	CONTROL	CONTROL	
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	
Trt-Eval Interval		4 WEEK	4 WEEK	4 WEEK	4 WEEK	
ARM Action Codes		P	P	P	P	
Number of Decimals		0	0	0	0	
Trt Treatment	Rate	Rate				
No. Name	Rate	Unit	5	6	7	8
1 CHECK UNTREATED			0	0	0	0
2 DUAL II MAGNUM	0.955	lb ai/a	0	95	80	17
3 DUAL II MAGNUM	1.91	lb ai/a	0	98	80	52
4 MANA-282	0.985	lb ai/a	0	96	82	40
5 MANA-282	1.97	lb ai/a	0	96	77	30
6 MANA-282	2.96	lb ai/a	0	97	50	10
7 MANA-282	0.985	lb ai/a	0	96	95	95
ROUNDUP WeatherMAX	0.75	lb ai/a				
AMS	3.7	% v/v				
8 MANA-282	1.97	lb ai/a	0	97	95	96
ROUNDUP WeatherMAX	0.75	lb ai/a				
AMS	3.7	% v/v				
9 MANA-282	2.96	lb ai/a	0	98	98	98
ROUNDUP WeatherMAX	0.75	lb ai/a				
AMS	3.7	% v/v				
10 DUAL II MAGNUM	0.955	lb ai/a	0	97	96	95
ROUNDUP WeatherMAX	0.75	lb ai/a				
AMS	3.7	% v/v				
11 DUAL II MAGNUM	1.91	lb ai/a	0	98	94	97
ROUNDUP WeatherMAX	0.75	lb ai/a				
AMS	3.7	% v/v				
12 MANA-283	1.94	lb ai/a	0	93	95	50
13 MANA-283	2.91	lb ai/a	0	93	95	77
14 MANA-283	3.58	lb ai/a	0	98	97	87
15 MANA-283	1.94	lb ai/a	0	98	98	98
ROUNDUP WeatherMAX	0.75	lb ai/a				
AMS	3.7	% v/v				
16 MANA-283	2.91	lb ai/a	0	98	98	98
ROUNDUP WeatherMAX	0.75	lb ai/a				
AMS	3.7	% v/v				
17 MANA-283	3.58	lb ai/a	0	98	98	98
ROUNDUP WeatherMAX	0.75	lb ai/a				
AMS	3.7	% v/v				
18 BICEP II MAGNUM	1.79	lb ai/a	0	98	98	97
ROUNDUP WeatherMAX	0.75	lb ai/a				
AMS	3.7	% v/v				
19 BICEP II MAGNUM	2.68	lb ai/a	0	98	98	98
ROUNDUP WeatherMAX	0.75	lb ai/a				
AMS	3.7	% v/v				
20 BICEP II MAGNUM	3.58	lb ai/a	0	98	98	98
ROUNDUP WeatherMAX	0.75	lb ai/a				
AMS	3.7	% v/v				
LSD (P=.05)			0.0	3.6	14.8	15.8
Standard Deviation			0.0	2.2	9.0	9.6
CV			0.0	2.39	10.44	13.37
Grand Mean			0.0	91.98	86.08	71.48
Bartlett's X2			0.0	10.674	23.868	24.848
P(Bartlett's X2)			.	0.221	0.001*	0.003*
Replicate F			0.000	3.054	0.363	1.723
Replicate Prob(F)			1.0000	0.0589	0.6980	0.1922
Treatment F			0.000	291.560	20.510	39.677
Treatment Prob(F)			1.0000	0.0001	0.0001	0.0001

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Pest Type			W Weed		W Weed		W Weed
Pest Code			SETFA		CHEAL		AMBTR
Pest Name			Giant foxtail	Lambsquarters,	commo	Giant	Ragweed
Crop Code		ZEAMX					
BBCH Scale		BCOR					
Crop Name		Corn					
Rating Data Type		INJURY	CONTROL		CONTROL		CONTROL
Rating Unit		PERCENT	PERCENT		PERCENT		PERCENT
Trt-Eval Interval		8 WEEK	8 WEEK		8 WEEK		8 WEEK
ARM Action Codes		P	P		P		P
Number of Decimals		0	0		0		0
Trt Treatment	Rate	Rate					
No. Name	Rate	Unit	9	10	11	12	
1 CHECK UNTREATED			0	0		0	0
2 DUAL II MAGNUM	0.955	lb ai/a	0	95		72	10
3 DUAL II MAGNUM	1.91	lb ai/a	0	98		78	38
4 MANA-282	0.985	lb ai/a	0	96		75	15
5 MANA-282	1.97	lb ai/a	0	96		73	13
6 MANA-282	2.96	lb ai/a	0	97		47	10
7 MANA-282	0.985	lb ai/a	0	98		97	97
ROUNDUP WeatherMAX	0.75	lb ai/a					
AMS	3.7	% v/v					
8 MANA-282	1.97	lb ai/a	0	98		98	98
ROUNDUP WeatherMAX	0.75	lb ai/a					
AMS	3.7	% v/v					
9 MANA-282	2.96	lb ai/a	0	98		98	98
ROUNDUP WeatherMAX	0.75	lb ai/a					
AMS	3.7	% v/v					
10 DUAL II MAGNUM	0.955	lb ai/a	0	98		97	93
ROUNDUP WeatherMAX	0.75	lb ai/a					
AMS	3.7	% v/v					
11 DUAL II MAGNUM	1.91	lb ai/a	0	98		97	98
ROUNDUP WeatherMAX	0.75	lb ai/a					
AMS	3.7	% v/v					
12 MANA-283	1.94	lb ai/a	0	93		93	40
13 MANA-283	2.91	lb ai/a	0	93		93	60
14 MANA-283	3.58	lb ai/a	0	98		97	77
15 MANA-283	1.94	lb ai/a	0	98		98	97
ROUNDUP WeatherMAX	0.75	lb ai/a					
AMS	3.7	% v/v					
16 MANA-283	2.91	lb ai/a	0	98		98	98
ROUNDUP WeatherMAX	0.75	lb ai/a					
AMS	3.7	% v/v					
17 MANA-283	3.58	lb ai/a	0	98		98	97
ROUNDUP WeatherMAX	0.75	lb ai/a					
AMS	3.7	% v/v					
18 BICEP II MAGNUM	1.79	lb ai/a	0	98		98	98
ROUNDUP WeatherMAX	0.75	lb ai/a					
AMS	3.7	% v/v					
19 BICEP II MAGNUM	2.68	lb ai/a	0	98		98	98
ROUNDUP WeatherMAX	0.75	lb ai/a					
AMS	3.7	% v/v					
20 BICEP II MAGNUM	3.58	lb ai/a	0	98		98	98
ROUNDUP WeatherMAX	0.75	lb ai/a					
AMS	3.7	% v/v					
LSD (P=.05)			0.0	3.6		13.7	13.3
Standard Deviation			0.0	2.2		8.3	8.0
CV			0.0	2.34		9.74	12.04
Grand Mean			0.0	92.18		85.18	66.68
Bartlett's X2			0.0	6.689		39.481	27.658
P(Bartlett's X2)			.	0.245		0.001*	0.001*
Replicate F			0.000	2.067		1.878	1.812
Replicate Prob(F)			1.0000	0.1405		0.1668	0.1772
Treatment F			0.000	305.499		25.737	69.482
Treatment Prob(F)			1.0000	0.0001		0.0001	0.0001

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Weed Science Field Research

CORN PREEMERGENCE & POSTEMERGENCE ROUNDUP READY II

Trial ID: C4033
Location: LEXINGTON, KY

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

General Trial Information

Study Director: CHARLES H. SLACK
Affiliation: UNIVERSITY OF KENTUCKY
Postal Code: 40546
Investigator: Charles H. Slack

Trial Location

City: LEXINGTON
State/Prov.: KENTUCKY
Postal Code: 40511
Directions:

Trial Status: COMPLETE
Initiation Date: 5-4-04

Objectives:

Conclusions:

Crop Description

Crop 1: ZEAMX Zea mays
Variety: GARST 8352 RR
BBCH Scale: BCOR
Planting Method: ROW
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM
Soil Moisture: SLIGHTLY WET

Planting Date: 5-4-04
Rate, Unit: 28000 S/A
Soil Temperature, Unit: 57 F
Emergence Date: 5-9-04

Pest Description

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

Pest 2 Type: W **Code:** CHEAL **Chenopodium album**
Common Name: Lambsquarters, common

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

Site and Design

Plot Width, Unit: 5 FT
Plot Length, Unit: 44 FT
Replications: 3

Site Type: FIELD
Tillage Type: CONVENTIONAL-TILL
Study Design: Randomized Complete Block

Trial Initiation Comments:

Field Prep./Maintenance:

Soil Description

% Sand: 6 **% OM:** 2.6
% Silt: 62 **pH:** 6.4
% Clay: 32 **CEC:** 17

Texture: SILT LOAM
Soil Name: MAURY
Fert. Level: EXCELLENT

Moisture Conditions

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

Application Description

	A	B
Application Date:	5-4-04	5-28-04
Time of Day:	3:00	10:00
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	LP
Application Placement:	BROSOI	BROFOL
Air Temperature, Unit:	49 F	69 F
% Relative Humidity:	70	75
Wind Velocity, Unit:	4 MPH	4 MPH
Dew Presence (Y/N):	N	N
Soil Temperature, Unit:	57 F	73 F
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	20	20

Crop Stage At Each Application

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

Pest Stage At Each Application

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

Application Equipment

	A	B
Appl. Equipment:	ATV	BACKPACK
Operating Pressure:	30	30
Pressure Unit:	PSI	PSI
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	8004 DG	8004 DG
Nozzle Spacing, Unit:	20 IN	20 IN
Boom Length, Unit:	5 FT	5 FT
Boom Height, Unit:	19 IN	25 IN
Ground Speed, Unit:	4 MPH	3.5 MPH
Carrier:	WATER	WATER
Spray Volume:	24	24
Volume Unit:	GPA	GPA
Propellant:	CO2	CO2

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Weed Science Field Research

NO-TILL CORN EARLY PREPLANT ROUNDUP READY

Trial ID: C4040
Location: LEXINGTON, KY

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

Pest Type	W Weed	W Weed	
Pest Code	AMBTR	SETFA	
Pest Name	Giant Ragweed	Giant foxtail	
Crop Code			ZEAMX
BBCH Scale			BCOR
Crop Name			Corn
Rating Data Type	CONTROL	CONTROL	YEILD
Rating Unit	PERCENT	PERCENT	BU/A
Trt-Eval Interval	8 WEEK	8 WEEK	
ARM Action Codes	P	P	TY1
Number of Decimals	0	0	1

Trt Treatment No. Name	Rate Rate Unit	1	2	3
1 BICEP II MAGNUM	2.89 lb ai/a	99	98	218.0
AATREX	0.375 lb ai/a			
WEEDONE LV4	0.5 lb ai/a			
GRAMOXONE MAX	0.638 lb ai/a			
ACTIVATOR 90	0.25 % v/v			
2 DEGREE XTRA	3.03 lb ai/a	94	97	225.3
AATREX	1 lb ai/a			
ROUNDUP WeatherMAX	0.75 lb ae/a			
WEEDONE LV4	0.5 lb ai/a			
AMS	3.7 % v/v			
3 LUMAX	2.44 lb ai/a	71	93	231.7
AATREX	0.875 lb ai/a			
WEEDONE LV4	0.5 lb ai/a			
GRAMOXONE MAX	0.638 lb ai/a			
ACTIVATOR 90	0.25 % v/v			
4 DEGREE XTRA	2.53 lb ai/a	90	96	228.5
BALANCE PRO	0.063 lb ai/a			
AATREX	0.67 lb ai/a			
ROUNDUP WeatherMAX	0.75 lb ae/a			
WEEDONE LV4	0.5 lb ai/a			
AMS	3.7 % v/v			
5 AATREX	1 lb ai/a	99	97	232.7
GRAMOXONE MAX	0.638 lb ai/a			
WEEDONE LV4	0.5 lb ai/a			
ACTIVATOR 90	0.25 % v/v			
LUMAX	1.83 lb ai/a			
6 AATREX	1 lb ai/a	95	99	236.3
ROUNDUP WeatherMAX	0.75 lb ae/a			
WEEDONE LV4	0.5 lb ai/a			
AMS	3.7 % v/v			
DEGREE XTRA	2.27 lb ai/a			
ROUNDUP WeatherMAX	0.75 lb ae/a			
AMS	3.7 % v/v			
7 BICEP II MAGNUM	2.89 lb ai/a	93	86	233.9
GRAMOXONE MAX	0.638 lb ai/a			
WEEDONE LV4	0.5 lb ai/a			
ACTIVATOR 90	0.25 % v/v			
CALLISTO	0.094 lb ai/a			
COC	1 qt/a			
LIQUID N	2 qt/a			
8 DEGREE XTRA	3.03 lb ai/a	93	94	228.6
ROUNDUP WeatherMAX	0.75 lb ae/a			
WEEDONE LV4	0.5 lb ai/a			
AMS	3.7 % v/v			
ROUNDUP WeatherMAX	0.75 lb ae/a			
AMS	3.7 % v/v			
LSD (P=.05)		9.9	5.7	20.99
Standard Deviation		6.7	3.9	14.27
CV		7.33	4.06	6.22
Grand Mean		91.53	94.94	229.37
Bartlett's X2		12.707	12.581	3.833
P(Bartlett's X2)		0.026*	0.05	0.799

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Pest Type	W Weed	W Weed	
Pest Code	AMBTR	SETFA	
Pest Name	Giant Ragweed	Giant foxtail	
Crop Code			ZEAMX
BBCH Scale			BCOR
Crop Name			Corn
Rating Data Type	CONTROL	CONTROL	YEILD
Rating Unit	PERCENT	PERCENT	BU/A
Trt-Eval Interval	8 WEEK	8 WEEK	
ARM Action Codes	P	P	TY1
Number of Decimals	0	0	1

Trt Treatment	Rate	Unit	1	2	3
No. Name	Rate	Unit			

Replicate F	2.916	1.271	16.691
Replicate Prob(F)	0.0581	0.3100	0.0001
Treatment F	6.907	4.554	0.652
Treatment Prob(F)	0.0003	0.0032	0.7087

Column 3: $TY1 = 5.761905 * [C4] * (100 - [C5]) / 85$

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NO-TILL CORN EARLY PREPLANT ROUNDUP READY

Trial ID: C4040
Location: LEXINGTON, KY

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

General Trial Information

Study Director: CHARLES H. SLACK
Affiliation: UNIVERSITY OF KENTUCKY
Postal Code: 40546
Investigator: Charles H. Slack

Trial Location

City: LEXINGTON **Trial Status:** COMPLETE
State/Prov.: KENTUCKY
Postal Code: 40511 **Initiation Date:** 4-15-04
Directions:

Objectives:

Conclusions:

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DEKALB DKC 64-11 RR
BBCH Scale: BCOR **Planting Date:** 4-29-04
Planting Method: ROW **Rate, Unit:** 28000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: SMOOTH/TRASHY **Soil Temperature, Unit:** 58 F
Soil Moisture: SLIGHTLY WET **Emergence Date:** 5-4-04

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD
Plot Length, Unit: 33 FT **Tillage Type:** NO-TILL
Replications: 4 **Study Design:** Randomized Complete Block

Trial Initiation Comments:

Field Prep./Maintenance:

Soil Description

% Sand: 3 **% OM:** 4 **Texture:** SILT LOAM
% Silt: 63 **pH:** 6.5 **Soil Name:** LANTON
% Clay: 34 **CEC:** 25 **Fert. Level:** EXCELLENT

Moisture Conditions

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

Application Description

	A	B	C
Application Date:	4-15-04	5-20-04	6-3-04
Time of Day:	10:00	1:00	11:00
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	2WK	5C	16C
Application Placement:	BROFOL	BROFOL	BROFOL
Air Temperature, Unit:	54 F	75 F	66 F
% Relative Humidity:	50	81	73
Wind Velocity, Unit:	3 MPH	3 MPH	4 MPH
Dew Presence (Y/N):	N	N	N
Soil Temperature, Unit:	58 F	73 F	67 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	10	10	10

Crop Stage At Each Application

	A		B		C	
Crop 1 Code, BBCH Scale:	ZEAMX	BCOR	ZEAMX	BCOR	ZEAMX	BCOR
Stage Scale Used:	BBCH		BBCH		BBCH	
Height, Unit:			5	IN	16	IN

Application Equipment

	A		B		C	
Appl. Equipment:	ATV		BACKPACK		BACKPACK	
Operating Pressure:	30		30		30	
Pressure Unit:	PSI		PSI		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:	19	IN	25	IN	36	IN
Ground Speed, Unit:	4	MPH	3.5	MPH	3.5	MPH
Carrier:	WATER		WATER		WATER	
Spray Volume:	24		24		24	
Volume Unit:	GPA		GPA		GPA	
Propellant:	CO2		CO2		CO2	

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Weed Science Field Research

NO-TILL CORN EARLY PREPLANT ROUNDUP READY II

Trial ID: C4041
Location: LEXINGTON, KY

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

Pest Type	W Weed	W Weed	W Weed	W Weed	
Pest Code	AMBTR	SETFA	AMBTR	SETFA	
Pest Name	Giant Ragweed	Giant foxtail	Giant Ragweed	Giant foxtail	
Crop Code					ZEAMX
BBCH Scale					BCOR
Crop Name					Corn
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	BU/A
Trt-Eval Interval	BEFORE POST	BEFORE POST	AFTER POST	AFTER POST	
ARM Action Codes	P	P	P	P	
Number of Decimals	0	0	0	0	1

Trt Treatment	Rate	Rate					
No. Name	Rate	Unit	1	2	3	4	5
1 CINCH ATZ	2.89	lb ai/a	95	94	89	95	194.3
GRAMOXONE MAX	0.638	lb ai/a					
WEEDONE LV4	0.5	lb ai/a					
ACTIVATOR 90	0.25	% v/v					
STEADFAST	0.035	lb ai/a					
COC	1	qt/a					
LIQUID N	2	qt/a					
2 DEGREE XTRA	3.03	lb ai/a	81	86	90	95	213.8
ROUNDUP WeatherMAX	0.75	lb ae/a					
WEEDONE LV4	0.5	lb ai/a					
AMS	3.7	% v/v					
ROUNDUP WeatherMAX	0.75	lb ae/a					
AMS	3.7	% v/v					
3 CINCH ATZ	2.17	lb ai/a	88	94	78	95	199.6
GRAMOXONE MAX	0.638	lb ai/a					
WEEDONE LV4	0.5	lb ai/a					
ACTIVATOR 90	0.25	% v/v					
STEADFAST	0.035	lb ai/a					
COC	1	qt/a					
LIQUID N	2	qt/a					
4 DEGREE XTRA	2.27	lb ai/a	73	60	91	95	216.7
ROUNDUP WeatherMAX	0.75	lb ae/a					
WEEDONE LV4	0.5	lb ai/a					
AMS	3.7	% v/v					
ROUNDUP WeatherMAX	0.75	lb ae/a					
AMS	3.7	% v/v					
5 CINCH ATZ	1.45	lb ai/a	60	0	70	94	192.8
GRAMOXONE MAX	0.638	lb ai/a					
WEEDONE LV4	0.5	lb ai/a					
ACTIVATOR 90	0.25	% v/v					
STEADFAST	0.035	lb ai/a					
COC	1	qt/a					
LIQUID N	2	qt/a					
6 DEGREE XTRA	1.52	lb ai/a	45	63	95	95	212.5
ROUNDUP WeatherMAX	0.75	lb ae/a					
WEEDONE LV4	0.5	lb ai/a					
AMS	3.7	% v/v					
ROUNDUP WeatherMAX	0.75	lb ae/a					
AMS	3.7	% v/v					
7 GRAMOXONE MAX	0.638	lb ai/a	85	84	80	89	206.7
AATREX	1	lb ai/a					
WEEDONE LV4	0.5	lb ai/a					
ACTIVATOR 90	0.25	% v/v					
STEADFAST	0.035	lb ai/a					
COC	1	qt/a					
LIQUID N	2	qt/a					
8 ROUNDUP WeatherMAX	0.75	lb ae/a	73	80	90	95	219.6
AATREX	1	lb ai/a					
WEEDONE LV4	0.5	lb ai/a					
AMS	3.7	% v/v					
ROUNDUP WeatherMAX	0.75	lb ae/a					
AMS	3.7	% v/v					

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Pest Type		W Weed	W Weed	W Weed	W Weed		
Pest Code		AMBTR	SETFA	AMBTR	SETFA		
Pest Name		Giant Ragweed	Giant foxtail	Giant Ragweed	Giant foxtail		
Crop Code						ZEAMX	
BBCH Scale						BCOR	
Crop Name						Corn	
Rating Data Type		CONTROL	CONTROL	CONTROL	CONTROL	YIELD	
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	BU/A	
Trt-Eval Interval		BEFORE POST	BEFORE POST	AFTER POST	AFTER POST		
ARM Action Codes		P	P	P	P		
Number of Decimals		0	0	0	0	1	
Trt Treatment	Rate	Rate					
No. Name	Rate	Unit	1	2	3	4	5
9 GRAMOXONE MAX	0.638	lb ai/a	0	0	71	88	175.1
WEEDONE LV4	0.5	lb ai/a					
ACTIVATOR 90	0.25	% v/v					
STEADFAST	0.035	lb ai/a					
COC	1	qt/a					
LIQUID N	2	qt/a					
10 ROUNDUP WeatherMAX	0.75	lb ae/a	59	58	93	95	216.1
WEEDONE LV4	0.5	lb ai/a					
AMS	3.7	% v/v					
ROUNDUP WeatherMAX	0.75	lb ae/a					
AMS	3.7	% v/v					
LSD (P=.05)			10.4	7.3	3.7	1.9	23.42
Standard Deviation			7.2	5.1	2.5	1.3	16.14
CV			10.94	8.2	3.0	1.42	7.88
Grand Mean			65.7	61.75	84.63	93.5	204.71
Bartlett's X2			16.008	13.515	3.909	0.083	6.061
P(Bartlett's X2)			0.042*	0.036*	0.563	0.959	0.734
Replicate F			4.319	2.372	1.645	2.842	11.658
Replicate Prob(F)			0.0130	0.0925	0.2023	0.0565	0.0001
Treatment F			58.785	192.574	51.839	18.789	3.061
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0001	0.0117

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

NO-TILL CORN EARLY PREPLANT ROUNDUP READY II

Trial ID: C4041
Location: LEXINGTON, KY

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

General Trial Information

Study Director: CHARLES H. SLACK
Affiliation: UNIVERSITY OF KENTUCKY
Postal Code: 40546
Investigator: Charles H. Slack

Trial Location

City: LEXINGTON **Trial Status:** COMPLETE
State/Prov.: KENTUCKY
Postal Code: 40511 **Initiation Date:** 4-15-04
Directions:

Objectives:**Conclusions:****Crop Description**

Crop 1: ZEAMX Zea mays **Corn**
Variety: DKC 64-11 RR
BBCH Scale: BCOR **Planting Date:** 4-29-04
Planting Method: ROW **Rate, Unit:** 28000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: SMOOTH/TRASHY **Soil Temperature, Unit:** 58 F
Soil Moisture: NORMAL **Emergence Date:** 5-4-04

Pest Description

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

Pest 2 Type: W **Code:** SETFA **Setaria faberi**
Common Name: Giant Foxtail

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD
Plot Length, Unit: 33 FT **Tillage Type:** NO-TILL
Replications: 4 **Study Design:** Randomized Complete Block

Trial Initiation Comments:**Field Prep./Maintenance:****Soil Description**

% Sand: 3 **% OM:** 4 **Texture:** SILT LOAM
% Silt: 63 **pH:** 6.5 **Soil Name:** LANTON
% Clay: 34 **CEC:** 25 **Fert. Level:** EXCELLENT

Moisture Conditions

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

Application Description

	A	B
Application Date:	4-15-04	6-3-04
Time of Day:	11:00	2:00
Application Method:	SPRAY	SPRAY
Application Timing:	2WK	16C
Application Placement:	BROFOL	BROFOL
Air Temperature, Unit:	54 F	66 F
% Relative Humidity:	50	73
Wind Velocity, Unit:	3 MPH	4 MPH
Dew Presence (Y/N):	N	N
Soil Temperature, Unit:	52 F	67 F
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	10	10

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH	BBCH
Height, Unit:	16	IN

Pest Stage At Each Application

	A	B
Pest 1 Code, Disc., Scale:	AMBTR W	AMBTR W
Height, Unit:	6	IN
Pest 2 Code, Disc., Scale:	SETFA W	SETFA W
Height, Unit:	5	IN

Application Equipment

	A	B
Appl. Equipment:	ATV	BACKPACK
Operating Pressure:	30	30
Pressure Unit:	PSI	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:	19 IN	36 IN
Ground Speed, Unit:	4 MPH	3.5 MPH
Carrier:	WATER	WATER
Spray Volume:	24	24
Volume Unit:	GPA	GPA
Propellant:	CO2	CO2

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

NO-TILL CORN ROUNDUP READY VARIETIES

Trial ID: C4042
Location: LEXINGTON, KY

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

Pest Type	W Weed	W Weed	W Weed
Pest Code	AMBTR	CHEAL	SETFA
Pest Name	Giant Ragweed Lambsquarters, commo Giant foxtail		
Crop Code	ZEAMX		ZEAMX
BBCH Scale	BCOR		BCOR
Crop Name	Corn		
Rating Data Type	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P
Number of Decimals	0	0	0
			TY2
			1

Trt Treatment	Rate	Rate Unit	1	2	3	4	9
1 ROUNDUP WeatherMAX	0.75	lb ae/a	0	94		85	97
WEEDONE LV4	0.5	lb ai/a					
AMS	3.7	% v/v					
DEGREE XTRA	2	qt/a					
ROUNDUP WeatherMAX	0.75	lb ae/a					
AMS	3.7	% v/v					
DKC 63-80							
2 GRAMOXONE MAX	0.638	lb ai/a	0	95		96	90
WEEDONE LV4	0.5	lb ai/a					
ACTIVATOR 90	0.25	% v/v					
STEADFAST	0.035	lb ai/a					
CALLISTO	0.062	lb ai/a					
AATREX	0.25	lb ai/a					
COC	1	% v/v					
LIQUID N	2	qt/a					
DKC 63-80							
3 ROUNDUP WeatherMAX	0.75	lb ae/a	0	94		84	94
WEEDONE LV4	0.5	lb ai/a					
AMS	3.7	% v/v					
DEGREE XTRA	2	qt/a					
ROUNDUP WeatherMAX	0.75	lb ae/a					
AMS	3.7	% v/v					
DKC 63-81							
4 GRAMOXONE MAX	0.638	lb ai/a	0	95		95	94
WEEDONE LV4	0.5	lb ai/a					
ACTIVATOR 90	0.25	% v/v					
STEADFAST	0.035	lb ai/a					
CALLISTO	0.062	lb ai/a					
AATREX	0.25	lb ai/a					
COC	1	% v/v					
LIQUID N	2	qt/a					
DKC 63-81							
5 ROUNDUP WeatherMAX	0.75	lb ae/a	0	91		88	96
WEEDONE LV4	0.5	lb ai/a					
AMS	3.7	% v/v					
DEGREE XTRA	2.02	lb ai/a					
ROUNDUP WeatherMAX	0.75	lb ae/a					
AMS	3.7	% v/v					
34B62							
6 GRAMOXONE MAX	0.638	lb ai/a	0	97		94	86
WEEDONE LV4	0.5	lb ai/a					
ACTIVATOR 90	0.25	% v/v					
STEADFAST	0.035	lb ai/a					
CALLISTO	0.062	lb ai/a					
AATREX	0.25	lb ai/a					
COC	1	% v/v					
LIQUID N	2	qt/a					
34B62							

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Pest Type		W Weed	W Weed	W Weed
Pest Code		AMBTR	CHEAL	SETFA
Pest Name		Giant Ragweed Lambsquarters, commo Giant foxtail		
Crop Code	ZEAMX			ZEAMX
BBCH Scale	BCOR			BCOR
Crop Name	Corn			Corn
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0
				TY2
				1

Trt Treatment	Rate	Rate Unit	1	2	3	4	9
No. Name	Rate	Unit					
7 ROUNDUP WeatherMAX	0.75	lb ae/a	0	90		87	235.2
WEEDONE LV4	0.5	lb ai/a					
AMS	3.7	% v/v					
DEGREE XTRA	2.02	lb ai/a					
ROUNDUP WeatherMAX	0.75	lb ae/a					
AMS	3.7	% v/v					
34B20							
8 GRAMOXONE MAX	0.638	lb ai/a	0	89		95	231.2
WEEDONE LV4	0.5	lb ai/a					
ACTIVATOR 90	0.25	% v/v					
STEADFAST	0.035	lb ai/a					
CALLISTO	0.062	lb ai/a					
AATREX	0.25	lb ai/a					
COC	1	% v/v					
LIQUID N	2	qt/a					
34B20							
9 ROUNDUP WeatherMAX	0.75	lb ae/a	0	95		95	243.5
WEEDONE LV4	0.5	lb ai/a					
AMS	3.7	% v/v					
DEGREE XTRA	2.02	lb ai/a					
ROUNDUP WeatherMAX	0.75	lb ae/a					
AMS	3.7	% v/v					
DKC 60-17							
10 GRAMOXONE MAX	0.638	lb ai/a	0	94		97	219.6
WEEDONE LV4	0.5	lb ai/a					
ACTIVATOR 90	0.25	% v/v					
STEADFAST	0.035	lb ai/a					
CALLISTO	0.062	lb ai/a					
AATREX	0.25	lb ai/a					
COC	1	% v/v					
LIQUID N	2	qt/a					
DKC 60-17							
11 ROUNDUP WeatherMAX	0.75	lb ae/a	0	95		99	246.9
WEEDONE LV4	0.5	lb ai/a					
AMS	3.7	% v/v					
DEGREE XTRA	2.02	lb ai/a					
ROUNDUP WeatherMAX	0.75	lb ae/a					
AMS	3.7	% v/v					
DKC 60-19							
12 GRAMOXONE MAX	0.638	lb ai/a	0	94		98	241.7
WEEDONE LV4	0.5	lb ai/a					
ACTIVATOR 90	0.25	% v/v					
STEADFAST	0.035	lb ai/a					
CALLISTO	0.062	lb ai/a					
AATREX	0.25	lb ai/a					
COC	1	% v/v					
LIQUID N	2	qt/a					
DKC 60-19							
13 ROUNDUP WeatherMAX	0.75	lb ae/a	0	96		97	251.6
WEEDONE LV4	0.5	lb ai/a					
AMS	3.7	% v/v					
DEGREE XTRA	2.02	lb ai/a					
ROUNDUP WeatherMAX	0.75	lb ae/a					
AMS	3.7	% v/v					
33P65							

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Pest Type			W Weed	W Weed	W Weed		
Pest Code			AMBTR	CHEAL	SETFA		
Pest Name			Giant Ragweed	Lambsquarters,	commo	Giant foxtail	
Crop Code		ZEAMX					ZEAMX
BBCH Scale		BCOR					BCOR
Crop Name		Corn					Corn
Rating Data Type		INJURY	CONTROL	CONTROL	CONTROL	YIELD	
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	BU/A	
Trt-Eval Interval		8 WEEK	8 WEEK	8 WEEK	8 WEEK		
ARM Action Codes		P	P	P	P	TY2	
Number of Decimals		0	0	0	0	1	
Trt Treatment		Rate					
No. Name		Rate Unit	1	2	3	4	9
14	GRAMOXONE MAX	0.638 lb ai/a	0	96		98	95 247.8
	WEEDONE LV4	0.5 lb ai/a					
	ACTIVATOR 90	0.25 % v/v					
	STEADFAST	0.035 lb ai/a					
	CALLISTO	0.062 lb ai/a					
	AATREX	0.25 lb ai/a					
	COC	1 % v/v					
	LIQUID N	2 qt/a					
	33P65						
15	ROUNDUP WeatherMAX	0.75 lb ae/a	0	92		91	95 226.4
	WEEDONE LV4	0.5 lb ai/a					
	AMS	3.7 % v/v					
	DEGREE XTRA	2.02 lb ai/a					
	ROUNDUP WeatherMAX	0.75 lb ae/a					
	AMS	3.7 % v/v					
	33P70						
16	GRAMOXONE MAX	0.638 lb ai/a	0	95		97	95 211.9
	WEEDONE LV4	0.5 lb ai/a					
	ACTIVATOR 90	0.25 % v/v					
	STEADFAST	0.035 lb ai/a					
	CALLISTO	0.062 lb ai/a					
	AATREX	0.25 lb ai/a					
	COC	1 % v/v					
	LIQUID N	2 qt/a					
	33P70						
LSD (P=.05)			0.0	3.5		5.2	7.1 34.23
Standard Deviation			0.0	2.4		3.6	5.0 23.95
CV			0.0	2.61		3.86	5.35 9.78
Grand Mean			0.0	93.78		93.36	92.8 244.98
Bartlett's X2			0.0	18.423		14.153	17.001 31.876
P(Bartlett's X2)			.	0.188		0.363	0.319 0.007*
Replicate F			0.000	2.553		9.188	1.060 4.292
Replicate Prob(F)			1.0000	0.0673		0.0001	0.3753 0.0095
Treatment F			0.000	3.164		7.516	2.109 2.228
Treatment Prob(F)			1.0000	0.0014		0.0001	0.0274 0.0196

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

NO-TILL CORN ROUNDUP READY VARIETIES

Trial ID: C4042
Location: LEXINGTON, KY

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

General Trial Information

Study Director: CHARLES H. SLACK
Affiliation: UNIVERSITY OF KENTUCKY
Postal Code: 40546
Investigator: Charles H. Slack

Trial Location

City: LEXINGTON **Trial Status:** COMPLETE
State/Prov.: KENTUCKY
Postal Code: 40511 **Initiation Date:** 4-20-04
Directions:

Objectives:

Conclusions:

Crop Description

Crop 1: ZEAMX Zea mays **Corn**
Variety: DKC 63-80
BBCH Scale: BCOR **Planting Date:** 4-27-04
Planting Method: ROW **Rate, Unit:** 28000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM **Soil Temperature, Unit:** 60 F
Soil Moisture: SLIGHTLY WET **Emergence Date:** 5-2-03
Harvest Date: 9-20-04 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 27.25 FT

Crop 2: ZEAMX Zea mays **Corn**
Variety: DKC 63-81
BBCH Scale: BCOR **Planting Date:** 4-27-04
Planting Method: ROW **Rate, Unit:** 28000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM **Soil Temperature, Unit:** 60 F
Soil Moisture: SLIGHTLY WET **Emergence Date:** 5-2-03
Harvest Date: 9-20-04 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 27.25 FT

Crop 3: ZEAMX Zea mays **Corn**
Variety: 34 B 62
BBCH Scale: BCOR **Planting Date:** 4-27-04
Planting Method: ROW **Rate, Unit:** 28000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM **Soil Temperature, Unit:** 60 F
Soil Moisture: SLIGHTLY WET **Emergence Date:** 5-2-03
Harvest Date: 9-20-04 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 27.25 FT

Crop 4: ZEAMX Zea mays **Corn**
Variety: 34 B 20
BBCH Scale: BCOR **Planting Date:** 4-27-04
Planting Method: ROW **Rate, Unit:** 28000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM **Soil Temperature, Unit:** 60 F
Soil Moisture: SLIGHTLY WET **Emergence Date:** 5-2-03
Harvest Date: 9-20-04 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 27.25 FT

Crop 5: ZEAMX Zea mays Corn
Variety: DKC 60-17
BBCH Scale: BCOR **Planting Date:** 4-27-04
Planting Method: ROW **Rate, Unit:** 28000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM **Soil Temperature, Unit:** 60 F
Soil Moisture: SLIGHTLY WET **Emergence Date:** 5-2-03
Harvest Date: 9-20-04 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 27.25 FT

Crop 6: ZEAMX Zea mays Corn
Variety: DKC 60-19
BBCH Scale: BCOR **Planting Date:** 4-27-04
Planting Method: ROW **Rate, Unit:** 28000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM **Soil Temperature, Unit:** 60 F
Soil Moisture: SLIGHTLY WET **Emergence Date:** 5-2-03
Harvest Date: 9-20-04 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 27.25 FT

Crop 7: ZEAMX Zea mays Corn
Variety: 33 P 65
BBCH Scale: BCOR **Planting Date:** 4-27-04
Planting Method: ROW **Rate, Unit:** 28000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM **Soil Temperature, Unit:** 60 F
Soil Moisture: SLIGHTLY WET **Emergence Date:** 5-2-03
Harvest Date: 9-20-04 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 27.25 FT

Crop 8: ZEAMX Zea mays Corn
Variety: 33 P 70
BBCH Scale: BCOR **Planting Date:** 4-27-04
Planting Method: ROW **Rate, Unit:** 28000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM **Soil Temperature, Unit:** 60 F
Soil Moisture: SLIGHTLY WET **Emergence Date:** 5-2-03
Harvest Date: 9-20-04 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 27.25 FT

Pest Description

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

Pest 2 Type: W **Code:** CHEAL **Chenopodium album**
Common Name: Lambsquarters, common

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

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD
Plot Length, Unit: 33 FT **Tillage Type:** NO-TILL
Replications: 4 **Study Design:** Split-Block

Trial Initiation Comments:

Field Prep./Maintenance:

Soil Description

% Sand: 6 **% OM:** 2.6 **Texture:** SILT LOAM
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY
% Clay: 32 **CEC:** 17 **Fert. Level:** EXCELLENT

Moisture ConditionsOverall Moisture Conditions: NORMAL
Closest Weather Station: SPINDLETOP

Distance: 1.5 Unit: MI

Application Description

	A	B
Application Date:	4-20-04	5-24-04
Time of Day:	10:00	1:00
Application Method:	SPRAY	SPRAY
Application Timing:	1WK	11C
Application Placement:	BROFOL	BROFOL
Air Temperature, Unit:	66 F	74 F
% Relative Humidity:	74	78
Wind Velocity, Unit:	2 MPH	3 MPH
Dew Presence (Y/N):	N	N
Soil Temperature, Unit:	60 F	70 F
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	20	20

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH	BBCH
Height, Unit:		11 IN
Crop 2 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH	BBCH
Height, Unit:		11 IN
Crop 3 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH	BBCH
Height, Unit:		11 IN
Crop 4 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH	BBCH
Height, Unit:		11 IN
Crop 5 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH	BBCH
Height, Unit:		11 IN
Crop 6 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH	BBCH
Height, Unit:		11 IN
Crop 7 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH	BBCH
Height, Unit:		11 IN
Crop 8 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH	BBCH
Height, Unit:		11 IN

Pest Stage At Each Application

	A	B
Pest 1 Code, Disc., Scale:	AMBTR W	AMBTR W
Height, Unit:		5 IN
Pest 2 Code, Disc., Scale:	CHEAL W	CHEAL W
Height, Unit:		4 IN
Pest 3 Code, Disc., Scale:	SETFA W	SETFA W
Height, Unit:		4 IN

Application Equipment

	A	B
Appl. Equipment:	ATV	BACKPACK
Operating Pressure:	30	30
Pressure Unit:	PSI	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:	19 IN	31 IN
Ground Speed, Unit:	4 MPH	3.5 MPH
Carrier:	WATER	WATER
Spray Volume:	24	24
Volume Unit:	GPA	GPA
Propellant:	CO2	CO2

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

NO-TILL CORN POSTEMERGENCE ROUNDUP READY

Trial ID: C4043
Location: LEXINGTON, KY

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

Pest Type		W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	SETFA
Pest Name		Giant foxtail	Giant Ragweed	Giant foxtail
Crop Code	ZEAMX			ZEAMX
BBCH Scale	BCOR			BCOR
Crop Name	Corn			Corn
Rating Data Type	INJURY	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	4 WEEK	4 WEEK	4 WEEK	8 WEEK
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	1	2	3	4	5
1	DEGREE XTRA	3	qt/a	0	97	93	0	97
	ROUNDUP WeatherMAX	22	fl oz/a					
	AMS	3.7	% v/v					
	ROUNDUP WeatherMAX	22	fl oz/a					
	AMS	3.7	% v/v					
2	DEGREE XTRA	3	qt/a	0	97	93	0	97
	ROUNDUP WeatherMAX	22	fl oz/a					
	AMS	3.7	% v/v					
	STEADFAST	0.75	oz/a					
	COC	1	qt/a					
	LIQUID N	2	qt/a					
3	DEGREE XTRA	3	qt/a	0	97	91	0	97
	ROUNDUP WeatherMAX	22	fl oz/a					
	AMS	3.7	% v/v					
	ACCENT	0.5	oz/a					
	COC	1	qt/a					
	LIQUID N	2	qt/a					
4	DEGREE XTRA	3	qt/a	0	97	93	0	97
	ROUNDUP WeatherMAX	22	fl oz/a					
	AMS	3.7	% v/v					
	CELEBRITY PLUS	4.7	oz/a					
	ACTIVATOR 90	0.25	% v/v					
	LIQUID N	2	qt/a					
5	DEGREE XTRA	3	qt/a	0	97	94	0	97
	ROUNDUP WeatherMAX	22	fl oz/a					
	AMS	3.7	% v/v					
	STEADFAST	0.75	oz/a					
	CALLISTO	3	fl oz/a					
	COC	1	qt/a					
	LIQUID N	2	qt/a					
6	AATREX	1	qt/a	0	97	93	0	97
	PRINCEP	1	qt/a					
	ROUNDUP WeatherMAX	22	fl oz/a					
	AMS	3.7	% v/v					
	ROUNDUP WeatherMAX	22	fl oz/a					
	AMS	3.7	% v/v					
7	AATREX	1	qt/a	0	97	93	0	97
	PRINCEP	1	qt/a					
	ROUNDUP WeatherMAX	22	fl oz/a					
	AMS	3.7	% v/v					
	STEADFAST	0.75	oz/a					
	COC	1	qt/a					
	LIQUID N	2	qt/a					
8	AATREX	1	qt/a	0	97	91	0	97
	PRINCEP	1	qt/a					
	ROUNDUP WeatherMAX	22	fl oz/a					
	AMS	3.7	% v/v					
	ACCENT	0.5	oz/a					
	COC	1	qt/a					
	LIQUID N	2	qt/a					

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Pest Type		W Weed		W Weed		W Weed
Pest Code		SETFA		AMBTR		SETFA
Pest Name		Giant foxtail		Giant Ragweed		Giant foxtail
Crop Code	ZEAMX				ZEAMX	
BBCH Scale	BCOR				BCOR	
Crop Name	Corn				Corn	
Rating Data Type	INJURY	CONTROL		CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT		PERCENT	PERCENT	PERCENT
Trt-Eval Interval	4 WEEK	4 WEEK		4 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P		P	P	P
Number of Decimals	0	0		0	0	0

Trt Treatment	Rate					
No. Name	Rate Unit	1	2	3	4	5
9 AATREX	1 qt/a	0		97	90	0
PRINCEP	1 qt/a					97
ROUNDUP WeatherMAX	22 fl oz/a					
AMS	3.7 % v/v					
CELEBRITY PLUS	4.7 oz/a					
ACTIVATOR 90	0.25 % v/v					
LIQUID N	2 qt/a					
10 AATREX	1 qt/a	0		97	94	0
PRINCEP	1 qt/a					97
ROUNDUP WeatherMAX	22 fl oz/a					
AMS	3.7 % v/v					
STEADFAST	0.75 oz/a					
CALLISTO	3 fl oz/a					
COC	1 qt/a					
LIQUID N	2 qt/a					
LSD (P=.05)		0.0	2.5	3.5	0.0	2.5
Standard Deviation		0.0	1.7	2.4	0.0	1.7
CV		0.0	1.79	2.61	0.0	1.79
Grand Mean		0.0	96.5	92.2	0.0	96.5
Bartlett's X2		0.0	0.0	3.212	0.0	0.0
P(Bartlett's X2)		.	1.00	0.955	.	1.00
Replicate F		0.000	1.000	2.697	0.000	1.000
Replicate Prob(F)		1.0000	0.4079	0.0657	1.0000	0.4079
Treatment F		0.000	0.000	1.102	0.000	0.000
Treatment Prob(F)		1.0000	1.0000	0.3939	1.0000	1.0000

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Trt Treatment	Rate			
No. Name	Rate Unit	6	14	
1 DEGREE XTRA	3 qt/a	93	201.0	
ROUNDUP WeatherMAX	22 fl oz/a			
AMS	3.7 % v/v			
ROUNDUP WeatherMAX	22 fl oz/a			
AMS	3.7 % v/v			
2 DEGREE XTRA	3 qt/a	84	194.0	
ROUNDUP WeatherMAX	22 fl oz/a			
AMS	3.7 % v/v			
STEADFAST	0.75 oz/a			
COC	1 qt/a			
LIQUID N	2 qt/a			
3 DEGREE XTRA	3 qt/a	83	190.8	
ROUNDUP WeatherMAX	22 fl oz/a			
AMS	3.7 % v/v			
ACCENT	0.5 oz/a			
COC	1 qt/a			
LIQUID N	2 qt/a			
4 DEGREE XTRA	3 qt/a	86	197.6	
ROUNDUP WeatherMAX	22 fl oz/a			
AMS	3.7 % v/v			
CELEBRITY PLUS	4.7 oz/a			
ACTIVATOR 90	0.25 % v/v			
LIQUID N	2 qt/a			
5 DEGREE XTRA	3 qt/a	90	226.4	
ROUNDUP WeatherMAX	22 fl oz/a			
AMS	3.7 % v/v			
STEADFAST	0.75 oz/a			
CALLISTO	3 fl oz/a			
COC	1 qt/a			
LIQUID N	2 qt/a			
6 AATREX	1 qt/a	93	231.5	
PRINCEP	1 qt/a			
ROUNDUP WeatherMAX	22 fl oz/a			
AMS	3.7 % v/v			
ROUNDUP WeatherMAX	22 fl oz/a			
AMS	3.7 % v/v			
7 AATREX	1 qt/a	80	208.8	
PRINCEP	1 qt/a			
ROUNDUP WeatherMAX	22 fl oz/a			
AMS	3.7 % v/v			
STEADFAST	0.75 oz/a			
COC	1 qt/a			
LIQUID N	2 qt/a			
8 AATREX	1 qt/a	81	210.8	
PRINCEP	1 qt/a			
ROUNDUP WeatherMAX	22 fl oz/a			
AMS	3.7 % v/v			
ACCENT	0.5 oz/a			
COC	1 qt/a			
LIQUID N	2 qt/a			
9 AATREX	1 qt/a	90	205.3	
PRINCEP	1 qt/a			
ROUNDUP WeatherMAX	22 fl oz/a			
AMS	3.7 % v/v			
CELEBRITY PLUS	4.7 oz/a			
ACTIVATOR 90	0.25 % v/v			
LIQUID N	2 qt/a			

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Pest Type	W Weed
Pest Code	AMBTR
Pest Name	Giant Ragweed
Crop Code	ZEAMX
BBCH Scale	BCOR
Crop Name	Corn
Rating Data Type	CONTROL YIELD
Rating Unit	PERCENT BU/A
Trt-Eval Interval	8 WEEK
ARM Action Codes	P TY2
Number of Decimals	0 1

Trt Treatment	Rate		
No. Name	Rate Unit	6	14
10 AATREX	1 qt/a	94	197.7
PRINCEP	1 qt/a		
ROUNDUP WeatherMAX	22 fl oz/a		
AMS	3.7 % v/v		
STEADFAST	0.75 oz/a		
CALLISTO	3 fl oz/a		
COC	1 qt/a		
LIQUID N	2 qt/a		
LSD (P=.05)		3.2	27.03
Standard Deviation		2.2	18.63
CV		2.5	9.03
Grand Mean		87.2	206.38
Bartlett's X2		3.112	12.571
P(Bartlett's X2)		0.874	0.183
Replicate F		1.741	5.821
Replicate Prob(F)		0.1823	0.0033
Treatment F		21.936	2.096
Treatment Prob(F)		0.0001	0.0664

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Weed Science Field Research

NO-TILL CORN POSTEMERGENCE ROUNDUP READY

Trial ID: C4043
Location: LEXINGTON, KY

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

General Trial Information

Study Director: CHARLES H. SLACK
Affiliation: UNIVERSITY OF KENTUCKY
Postal Code: 40546
Investigator: Charles H. Slack

Trial Location

City: LEXINGTON **Trial Status:** COMPLETE
State/Prov.: KENTUCKY
Postal Code: 40511 **Initiation Date:** 4-29-04
Directions:

Objectives:**Conclusions:****Crop Description**

Crop 1: ZEAMX Zea mays **Corn**
Variety: DKC 64-11
BBCH Scale: BCOR **Planting Date:** 4-29-04
Planting Method: ROW **Rate, Unit:** 28000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM/TRASHY **Soil Temperature, Unit:** 58 F
Soil Moisture: SLIGHTLY WET **Emergence Date:** 5-4-04
Harvest Date: 9-20-04 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 26 FT

Pest Description

Pest 1 Type: W **Code:** SETFA **Setaria faberi**
Common Name: Giant Foxtail
Pest 2 Type: W **Code:** AMBTR **Ambrosia trifida**
Common Name: Giant Ragweed

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD
Plot Length, Unit: 33 FT **Tillage Type:** NO-TILL
Replications: 4 **Study Design:** Split-Block

Trial Initiation Comments:**Field Prep./Maintenance:****Soil Description**

% Sand: 3 **% OM:** 4 **Texture:** SILT LOAM
% Silt: 63 **pH:** 6.5 **Soil Name:** LANTON
% Clay: 34 **CEC:** 25 **Fert. Level:** EXCELLENT

Moisture Conditions

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

Application Description

	A	B
Application Date:	4-30-04	6-3-04
Time of Day:	1:00	2:00
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	20C
Application Placement:	BROFOL	BROFOL
Air Temperature, Unit:	64 F	66 F
% Relative Humidity:	81	73
Wind Velocity, Unit:	3 MPH	3 MPH
Dew Presence (Y/N):	N	N
Soil Temperature, Unit:	59 F	67 F
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	20	20

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH	BBCH
Height, Unit:	20	IN

Pest Stage At Each Application

	A	B
Pest 1 Code, Disc., Scale:	SETFA W	SETFA W
Height, Unit:	6	IN
Pest 2 Code, Disc., Scale:	AMBTR W	AMBTR W
Height, Unit:	8	IN

Application Equipment

	A	B
Appl. Equipment:	ATV	BACKPACK
Operating Pressure:	30	30
Pressure Unit:	PSI	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:	19 IN	40 IN
Ground Speed, Unit:	4 MPH	3.5 MPH
Carrier:	WATER	WATER
Spray Volume:	12	12
Volume Unit:	GPA	GPA
Propellant:	CO2	CO2

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Weed Science Field Research

SOYBEAN PREEMERGENCE II

Trial ID: S4010
Location: LEXINGTON, KY

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

Pest Type		W Weed		W Weed		W Weed
Pest Code		SETFA		CHEAL		AMACH
Pest Name		Giant foxtail Lambsquarters, commo			Smooth pigweed	
Crop Code	GLXMA					
BBCH Scale	BSOY					
Crop Name	Soybean					
Rating Data Type	INJURY	CONTROL		CONTROL		CONTROL
Rating Unit	PERCENT	PERCENT		PERCENT		PERCENT
Trt-Eval Interval	2 WEEK	2 WEEK		2 WEEK		2 WEEK
ARM Action Codes	P	P		P		P
Number of Decimals		0		0		0

Trt Treatment	Rate	Rate				
No. Name	Rate	Unit	1	2	3	4
1 KIH-485	0.148	lb ai/a	7	100		
FLEXSTAR	0.353	lb ai/a			99	99
COC		1 qt/a				
LIQUID N		1 qt/a				
2 KIH-485	0.186	lb ai/a	7	100	100	100
FLEXSTAR	0.353	lb ai/a				
COC		1 qt/a				
LIQUID N		1 qt/a				
3 KIH-485	0.296	lb ai/a	13	100	100	100
FLEXSTAR	0.353	lb ai/a				
COC		1 qt/a				
LIQUID N		1 qt/a				
4 STALWART C	1.63	lb ai/a	0	99	95	96
FLEXSTAR	0.353	lb ai/a				
COC		1 qt/a				
LIQUID N		1 qt/a				
5 DUAL II MAGNUM	1.27	lb ai/a	0	99	93	95
FLEXSTAR	0.353	lb ai/a				
COC		1 qt/a				
LIQUID N		1 qt/a				
6 DUAL II MAGNUM	1.59	lb ai/a	0	99	92	95
FLEXSTAR	0.353	lb ai/a				
COC		1 qt/a				
LIQUID N		1 qt/a				
7 PROWL H20	0.89	lb ai/a	0	66	65	65
FLEXSTAR	0.353	lb ai/a				
COC		1 qt/a				
LIQUID N		1 qt/a				
8 CHECK UNTREATED			0	0	0	0
LSD (P=.05)			11.4	35.5	34.6	34.7
Standard Deviation			6.5	20.3	19.8	19.8
CV			195.03	24.48	24.61	24.4
Grand Mean			3.33	82.75	80.33	81.17
Bartlett's X2			0.991	40.861	43.736	35.51
P(Bartlett's X2)			0.609	0.001*	0.001*	0.001*
Replicate F			0.099	0.966	1.131	1.020
Replicate Prob(F)			0.9067	0.4045	0.3504	0.3858
Treatment F			1.803	9.171	9.099	9.259
Treatment Prob(F)			0.1648	0.0003	0.0003	0.0002

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Pest Type		W Weed		SETFA		SETFA
Pest Code		IPOSS				
Pest Name		Morning glory		Giant foxtail		Giant foxtail
Crop Code				GLXMA		GLXMA
BBCH Scale				BSOY		BSOY
Crop Name				Soybean		Soybean
Rating Data Type		CONTROL	INJURY	CONTROL	INJURY	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval		2 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK
ARM Action Codes		P	P	P	P	P
Number of Decimals		0		0		0
Trt Treatment	Rate					
No. Name	Rate Unit	5	6	7	8	9
1 KIH-485	0.148 lb ai/a	83	3	100	0	100
FLEXSTAR	0.353 lb ai/a					
COC	1 qt/a					
LIQUID N	1 qt/a					
2 KIH-485	0.186 lb ai/a	90	3	100	0	100
FLEXSTAR	0.353 lb ai/a					
COC	1 qt/a					
LIQUID N	1 qt/a					
3 KIH-485	0.296 lb ai/a	92	10	100	3	100
FLEXSTAR	0.353 lb ai/a					
COC	1 qt/a					
LIQUID N	1 qt/a					
4 STALWART C	1.63 lb ai/a	17	0	99	0	99
FLEXSTAR	0.353 lb ai/a					
COC	1 qt/a					
LIQUID N	1 qt/a					
5 DUAL II MAGNUM	1.27 lb ai/a	10	0	99	0	99
FLEXSTAR	0.353 lb ai/a					
COC	1 qt/a					
LIQUID N	1 qt/a					
6 DUAL II MAGNUM	1.59 lb ai/a	10	0	99	0	99
FLEXSTAR	0.353 lb ai/a					
COC	1 qt/a					
LIQUID N	1 qt/a					
7 PROWL H20	0.89 lb ai/a	10	0	66	0	66
FLEXSTAR	0.353 lb ai/a					
COC	1 qt/a					
LIQUID N	1 qt/a					
8 CHECK UNTREATED		0	0	0	0	0
LSD (P=.05)		11.8	5.2	35.5	3.6	35.5
Standard Deviation		6.7	3.0	20.3	2.0	20.3
CV		17.28	143.43	24.48	489.9	24.48
Grand Mean		38.92	2.08	82.75	0.42	82.75
Bartlett's X2		3.325	0.0	40.861	0.0	40.861
P(Bartlett's X2)		0.505	1.00	0.001*	.	0.001*
Replicate F		1.079	0.467	0.966	1.000	0.966
Replicate Prob(F)		0.3666	0.6365	0.4045	0.3927	0.4045
Treatment F		112.299	4.200	9.171	1.000	9.171
Treatment Prob(F)		0.0001	0.0108	0.0003	0.4706	0.0003

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SOYBEAN PREEMERGENCE II

Trial ID: S4010
Location: LEXINGTON, KY

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

General Trial Information

Study Director: CHARLES H. SLACK
Affiliation: UNIVERSITY OF KENTUCKY
Postal Code: 40546
Investigator: Charles H. Slack

Trial Location

City: LEXINGTON **Trial Status:** COMPLETE
State/Prov.: KENTUCKY
Postal Code: 40511 **Initiation Date:** 5-12-04
Directions:

Objectives:

Conclusions:

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: ASGROW 4403
BBCH Scale: BSOY **Planting Date:** 5-12-04
Planting Method: ROW **Rate, Unit:** 190000 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM **Soil Temperature, Unit:** 73 F
Soil Moisture: SLIGHTLY WET **Emergence Date:** 5-18-04

Pest Description

Pest 1 Type: W **Code:** SETFA *Setaria faberi*
Common Name: Giant Foxtail
Pest 2 Type: W **Code:** CHEAL *Chenopodium album*
Common Name: Lambsquarters, common
Pest 3 Type: W **Code:** AMACH *Amaranthus hybridus*
Common Name: Smooth pigweed
Pest 4 Type: W **Code:** IPOSS *Ipomoea sp.*
Common Name: Morning glory

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD
Plot Length, Unit: 44 FT **Tillage Type:** CONVENTIONAL-TILL
Replications: 3 **Study Design:** Randomized Complete Block

Trial Initiation Comments:

Field Prep./Maintenance:

Soil Description

% Sand: 6 **% OM:** 2.6 **Texture:** SILT LOAM
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY
% Clay: 32 **CEC:** 17 **Fert. Level:** EXCELLENT

Moisture Conditions

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

Application Description

	A		B	
Application Date:	5-12-04		6-11-04	
Time of Day:	10:00		2:00	
Application Method:	SPRAY		SPRAY	
Application Timing:	PRE		MP	
Application Placement:	BROSOI		BROFOL	
Air Temperature, Unit:	73	F	80	F
% Relative Humidity:	71		77	
Wind Velocity, Unit:	3	MPH	3	MPH
Dew Presence (Y/N):	N		N	
Soil Temperature, Unit:	73	F	79	F
Soil Moisture:	ADEQUATE		ADEQUATE	
% Cloud Cover:	10		20	

Crop Stage At Each Application

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

Pest Stage At Each Application

	A		B	
Pest 1 Code, Disc., Scale:	SETFA	W	SETFA	W
Height, Unit:			4	IN
Pest 2 Code, Disc., Scale:	CHEAL	W	CHEAL	W
Height, Unit:			3	IN
Pest 3 Code, Disc., Scale:	AMACH	W	AMACH	W
Height, Unit:			3	IN
Pest 4 Code, Disc., Scale:	IPOSS	W	IPOSS	W
Height, Unit:			2	IN

Application Equipment

	A		B	
Appl. Equipment:	ATV		BACKPACK	
Operating Pressure:	30		30	
Pressure Unit:	PSI		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:	19	IN	25	IN
Ground Speed, Unit:	4	MPH	3.5	MPH
Carrier:	WATER		WATER	
Spray Volume:	24		24	
Volume Unit:	GPA		GPA	
Propellant:	CO2		CO2	

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Weed Science Field Research

SOYBEAN PREEMERGENCE

Trial ID: S4011
Location: LEXINGTON, KY

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

Pest Type	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	SETFA
Pest Name	Giant foxtail	Giant Ragweed	Giant foxtail
Crop Code	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Name	Soybean	Soybean	Soybean
Rating Data Type	INJURY	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEK	2 WEEK	4 WEEK
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt Treatment	Rate	Rate	1	2	3	4	5
No. Name	Rate	Unit					
1 V-10148	0.078	lb ai/a	10	98	93	0	98
V-10149	0.023	lb ai/a					
2 V-10148	0.094	lb ai/a	7	98	91	0	98
V-10149	0.031	lb ai/a					
3 GANGSTER	3.6	oz/a	30	98	98	0	98
PHOENIX	0.125	lb ai/a					
V-10137	0.125	lb ai/a					
AMS	2.5	lb ai/a					
4 BOUNDARY	1.71	lb ai/a	0	98	98	0	98
TOUCHDOWN TOTAL	0.75	lb ae/a					
AMS	2	% w/v					
5 BOUNDARY	1.71	lb ai/a	13	98	98	0	98
FLEXSTAR	0.294	lb ai/a					
FUSION	0.208	lb ai/a					
COC	1	qt/a					
LIQUID N	2	qt/a					
6 ROUNDUP WeatherMAX	22	fl oz/a	0	98	98	0	95
AMS	3.9	% v/v					
7 VALOR SX	0.064	lb ai/a	0	98	97	0	98
ROUNDUP WeatherMAX	22	fl oz/a					
AMS	3.9	% v/v					
8 GANGSTER	1.8	oz/a	0	98	98	0	95
ROUNDUP WeatherMAX	22	fl oz/a					
AMS	3.9	% v/v					
9 FIRSTRATE	0.016	lb ai/a	0	98	98	0	97
GF-1279	24	fl oz/a					
AMS	1.5	% v/v					
10 GF-1279	24	fl oz/a	3	98	98	0	98
AMS	1.5	% v/v					
LSD (P=.05)			5.6	0.0	4.1	0.0	3.3
Standard Deviation			3.3	0.0	2.4	0.0	1.9
CV			51.75	0.0	2.5	0.0	1.99
Grand Mean			6.33	98.0	96.67	0.0	97.37
Bartlett's X2			0.0	0.0	2.706	0.0	1.817
P(Bartlett's X2)			1.00	.	0.258	.	0.403
Replicate F			0.310	0.000	2.565	0.000	3.220
Replicate Prob(F)			0.7370	1.0000	0.1047	1.0000	0.0638
Treatment F			25.828	0.000	3.473	0.000	1.000
Treatment Prob(F)			0.0001	1.0000	0.0118	1.0000	0.4742

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Weed Science Field Research

Pest Type			W Weed		W Weed		W Weed
Pest Code			AMBTR		SETFA		AMBTR
Pest Name			Giant Ragweed		Giant foxtail		Giant Ragweed
Crop Code				GLXMA			
BBCH Scale				BSOY			
Crop Name				Soybean			
Rating Data Type			CONTROL	INJURY	CONTROL		CONTROL
Rating Unit			PERCENT	PERCENT	PERCENT		PERCENT
Trt-Eval Interval			4 WEEK	8 WEEK	8 WEEK		8 WEEK
ARM Action Codes			P	P	P		P
Number of Decimals			0	0	0		0
Trt Treatment	Rate	Rate					
No. Name	Rate	Unit	6	7	8		9
1 V-10148	0.078	lb ai/a	82	0	98		53
V-10149	0.023	lb ai/a					
2 V-10148	0.094	lb ai/a	78	0	98		65
V-10149	0.031	lb ai/a					
3 GANGSTER	3.6	oz/a	95	0	98		83
PHOENIX	0.125	lb ai/a					
V-10137	0.125	lb ai/a					
AMS	2.5	lb ai/a					
4 BOUNDARY	1.71	lb ai/a	95	0	98		60
TOUCHDOWN TOTAL	0.75	lb ae/a					
AMS	2	% w/v					
5 BOUNDARY	1.71	lb ai/a	98	0	98		88
FLEXSTAR	0.294	lb ai/a					
FUSION	0.208	lb ai/a					
COC	1	qt/a					
LIQUID N	2	qt/a					
6 ROUNDUP WeatherMAX	22	fl oz/a	90	0	95		62
AMS	3.9	% v/v					
7 VALOR SX	0.064	lb ai/a	88	0	98		53
ROUNDUP WeatherMAX	22	fl oz/a					
AMS	3.9	% v/v					
8 GANGSTER	1.8	oz/a	90	0	95		68
ROUNDUP WeatherMAX	22	fl oz/a					
AMS	3.9	% v/v					
9 FIRSTRATE	0.016	lb ai/a	92	0	97		78
GF-1279	24	fl oz/a					
AMS	1.5	% v/v					
10 GF-1279	24	fl oz/a	95	0	98		60
AMS	1.5	% v/v					
LSD (P=.05)			3.2	0.0	3.3		13.9
Standard Deviation			1.9	0.0	1.9		8.1
CV			2.05	0.0	1.99		12.06
Grand Mean			90.3	0.0	97.37		67.1
Bartlett's X2			0.0	0.0	1.817		4.57
P(Bartlett's X2)			1.00	.	0.403		0.87
Replicate F			0.730	0.000	3.220		1.028
Replicate Prob(F)			0.4958	1.0000	0.0638		0.3777
Treatment F			33.977	0.000	1.000		6.764
Treatment Prob(F)			0.0001	1.0000	0.4742		0.0003

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

SOYBEAN PREEMERGENCE

Trial ID: S4011
Location: LEXINGTON, KY

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

General Trial Information

Study Director: CHARLES H. SLACK
Affiliation: UNIVERSITY OF KENTUCKY
Postal Code: 40546
Investigator: Charles H. Slack

Trial Location

City: LEXINGTON **Trial Status:** COMPLETE
State/Prov.: KENTUCKY
Postal Code: 40511 **Initiation Date:** 5-10-04
Directions:

Objectives:**Conclusions:****Crop Description**

Crop 1: GLXMA Glycine max Soybean
Variety: ASGROW 4403
BBCH Scale: BSOY **Planting Date:** 5-10-04
Planting Method: ROW **Rate, Unit:** 190000 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM **Soil Temperature, Unit:** 72 F
Soil Moisture: SLIGHTLY WET **Emergence Date:** 5-16-04

Pest Description

Pest 1 Type: W **Code:** SETFA Setaria faberi
Common Name: Giant Foxtail
Pest 2 Type: W **Code:** AMBTR Ambrosia trifida
Common Name: Giant Ragweed

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD
Plot Length, Unit: 44 FT **Tillage Type:** CONVENTIONAL-TILL
Replications: 3 **Study Design:** Randomized Complete Block

Trial Initiation Comments:**Field Prep./Maintenance:****Soil Description**

% Sand: 6 **% OM:** 2.6 **Texture:** SILT LOAM
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY
% Clay: 32 **CEC:** 17 **Fert. Level:** EXCELLENT

Moisture Conditions

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

Application Description

	A	B
Application Date:	5-10-04	5-27-04
Time of Day:	10:00	3:00
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	MP
Application Placement:	BROSOI	BROFOL
Air Temperature, Unit:	72 F	71 F
% Relative Humidity:	69	83
Wind Velocity, Unit:	3 MPH	4 MPH
Dew Presence (Y/N):	N	N
Soil Temperature, Unit:	72 F	72 F
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	20	20

Crop Stage At Each Application

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

Pest Stage At Each Application

	A	B
Pest 1 Code, Disc., Scale:	SETFA W	SETFA W
Height, Unit:	4	IN
Pest 2 Code, Disc., Scale:	AMBTR W	AMBTR W
Height, Unit:	5	IN

Application Equipment

	A	B
Appl. Equipment:	ATV	BACKPACK
Operating Pressure:	30	30
Pressure Unit:	PSI	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:	19 IN	25 IN
Ground Speed, Unit:	4 MPH	3.5 MPH
Carrier:	WATER	WATER
Spray Volume:	24	24
Volume Unit:	GPA	GPA
Propellant:	CO2	CO2

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

SOYBEAN PREEMERGENCE & POSTEMERGENCE

Trial ID: S4012
Location: LEXINGTON, KY

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

Pest Type	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	SETFA
Pest Name	Giant foxtail	Giant Ragweed	Giant foxtail
Crop Code	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Name	Soybean	Soybean	Soybean
Rating Data Type	INJURY	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEK	2 WEEK	4 WEEK
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt Treatment	Rate	Rate	1	2	3	4	5
No. Name	Rate	Unit					
1 ROUNDUP WeatherMAX	1 lb ai/a		0	98	98	0	98
AMS	3.7 % v/v						
2 VALOR SX	0.031 lb ai/a		0	98	98	0	98
ROUNDUP WeatherMAX	1 lb ai/a						
AMS	3.7 % v/v						
3 VALOR SX	0.047 lb ai/a		3	98	98	0	98
ROUNDUP WeatherMAX	1 lb ai/a						
AMS	3.7 % v/v						
4 VALOR SX	0.063 lb ai/a		7	98	98	0	98
ROUNDUP WeatherMAX	1 lb ai/a						
AMS	3.7 % v/v						
5 VALOR SX	0.078 lb ai/a		0	98	98	0	98
ROUNDUP WeatherMAX	1 lb ai/a						
AMS	3.7 % v/v						
6 CANOPY XL	3.5 oz/a		0	98	98	0	98
ROUNDUP WeatherMAX	22 fl oz/a						
AMS	3.7 % v/v						
7 ROUNDUP WeatherMAX	22 fl oz/a		3	98	98	0	98
SYNCHRONY STS	0.25 oz/a						
AMS	3.7 % v/v						
8 BOUNDARY	1.22 lb ai/a		0	98	98	0	98
TOUCHDOWN TOTAL	1 lb ai/a						
AMS	2 % w/v						
9 BOUNDARY	1.22 lb ai/a		17	98	98	0	98
FLEXSTAR	0.353 lb ai/a						
FUSION	0.25 lb ai/a						
COC	1 qt/a						
LIQUID N	4 qt/a						
10 BOUNDARY	1.22 lb ai/a		3	98	98	0	98
TOUCHDOWN TOTAL	1 lb ai/a						
AMS	2 % w/v						
11 BOUNDARY	1.22 lb ai/a		20	98	98	0	98
FLEXSTAR	0.353 lb ai/a						
FUSION	0.25 lb ai/a						
COC	1 qt/a						
LIQUID N	4 qt/a						
12 ROUNDUP WeatherMAX	22 fl oz/a		0	98	98	0	98
AMS	3.7 % v/v						
ROUNDUP WeatherMAX	17 fl oz/a						
AMS	3.7 % v/v						
13 FIRSTRATE	0.016 lb ai/a		0	98	98	0	98
GF-1279	24 fl oz/a						
AMS	1.5 % v/v						
14 ROUNDUP ORIGINAL MAX	22 fl oz/a		0	98	98	0	98
ACTIVATOR 90	0.25 % v/v						
AMS	3.7 % v/v						
15 TOUCHDOWN TOTAL	24 fl oz/a		0	98	98	0	98
AMS	2 % w/v						
16 TOUCHDOWN HI-TECH	1 lb ai/a		0	98	98	0	98
ACTIVATOR 90	0.25 % v/v						
AMS	2 % w/v						

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Pest Type			W Weed	W Weed	W Weed		
Pest Code			SETFA	AMBTR	SETFA		
Pest Name			Giant foxtail	Giant Ragweed	Giant foxtail		
Crop Code		GLXMA			GLXMA		
BBCH Scale		BSOY			BSOY		
Crop Name		Soybean			Soybean		
Rating Data Type		INJURY	CONTROL	CONTROL	INJURY	CONTROL	
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
Trt-Eval Interval		2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	
ARM Action Codes		P	P	P	P	P	
Number of Decimals		0	0	0	0	0	
Trt Treatment		Rate					
No. Name		Rate Unit	1	2	3	4	5
17 TOUCHDOWN TOTAL		24 fl oz/a	0	98	98	0	98
AMS		2 % w/v					
TOUCHDOWN TOTAL		24 fl oz/a					
AMS		2 % w/v					
18 TOUCHDOWN HI-TECH		1 lb ai/a	0	98	98	0	98
ACTIVATOR 90		0.25 % v/v					
AMS		2 % w/v					
TOUCHDOWN HI-TECH		1 lb ai/a					
ACTIVATOR 90		0.25 % v/v					
AMS		2 % w/v					
LSD (P=.05)			7.4	0.0	0.0	0.0	0.0
Standard Deviation			4.4	0.0	0.0	0.0	0.0
CV			149.03	0.0	0.0	0.0	0.0
Grand Mean			2.96	98.0	98.0	0.0	98.0
Bartlett's X2			2.186	0.0	0.0	0.0	0.0
P(Bartlett's X2)			0.823	.	.	.	.
Replicate F			1.804	0.000	0.000	0.000	0.000
Replicate Prob(F)			0.1800	1.0000	1.0000	1.0000	1.0000
Treatment F			5.408	0.000	0.000	0.000	0.000
Treatment Prob(F)			0.0001	1.0000	1.0000	1.0000	1.0000

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Weed Science Field Research

Pest Type		W Weed		W Weed		W Weed
Pest Code		AMBTR		SETFA		AMBTR
Pest Name		Giant Ragweed		Giant foxtail		Giant Ragweed
Crop Code				GLXMA		
BBCH Scale				BSOY		
Crop Name				Soybean		
Rating Data Type		CONTROL	INJURY	CONTROL		CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT		PERCENT
Trt-Eval Interval		4 WEEK	8 WEEK	8 WEEK		8 WEEK
ARM Action Codes		P	P	P		P
Number of Decimals		0	0	0		0
Trt Treatment	Rate	Rate				
No. Name	Rate Unit	6	7	8		9
1 ROUNDUP WeatherMAX	1 lb ai/a	90	0	98		65
AMS	3.7 % v/v					
2 VALOR SX	0.031 lb ai/a	93	0	98		63
ROUNDUP WeatherMAX	1 lb ai/a					
AMS	3.7 % v/v					
3 VALOR SX	0.047 lb ai/a	98	0	98		73
ROUNDUP WeatherMAX	1 lb ai/a					
AMS	3.7 % v/v					
4 VALOR SX	0.063 lb ai/a	97	0	98		68
ROUNDUP WeatherMAX	1 lb ai/a					
AMS	3.7 % v/v					
5 VALOR SX	0.078 lb ai/a	98	0	98		77
ROUNDUP WeatherMAX	1 lb ai/a					
AMS	3.7 % v/v					
6 CANOPY XL	3.5 oz/a	95	0	98		89
ROUNDUP WeatherMAX	22 fl oz/a					
AMS	3.7 % v/v					
7 ROUNDUP WeatherMAX	22 fl oz/a	96	3	98		83
SYNCHRONY STS	0.25 oz/a					
AMS	3.7 % v/v					
8 BOUNDARY	1.22 lb ai/a	95	0	98		65
TOUCHDOWN TOTAL	1 lb ai/a					
AMS	2 % w/v					
9 BOUNDARY	1.22 lb ai/a	98	0	98		87
FLEXSTAR	0.353 lb ai/a					
FUSION	0.25 lb ai/a					
COC	1 qt/a					
LIQUID N	4 qt/a					
10 BOUNDARY	1.22 lb ai/a	98	3	98		65
TOUCHDOWN TOTAL	1 lb ai/a					
AMS	2 % w/v					
11 BOUNDARY	1.22 lb ai/a	98	7	98		85
FLEXSTAR	0.353 lb ai/a					
FUSION	0.25 lb ai/a					
COC	1 qt/a					
LIQUID N	4 qt/a					
12 ROUNDUP WeatherMAX	22 fl oz/a	98	0	98		98
AMS	3.7 % v/v					
ROUNDUP WeatherMAX	17 fl oz/a					
AMS	3.7 % v/v					
13 FIRSTRATE	0.016 lb ai/a	96	0	98		88
GF-1279	24 fl oz/a					
AMS	1.5 % v/v					
14 ROUNDUP ORIGINAL MAX	22 fl oz/a	93	0	98		78
ACTIVATOR 90	0.25 % v/v					
AMS	3.7 % v/v					
15 TOUCHDOWN TOTAL	24 fl oz/a	97	0	98		79
AMS	2 % w/v					
16 TOUCHDOWN HI-TECH	1 lb ai/a	98	0	98		83
ACTIVATOR 90	0.25 % v/v					
AMS	2 % w/v					
17 TOUCHDOWN TOTAL	24 fl oz/a	98	0	98		98
AMS	2 % w/v					
TOUCHDOWN TOTAL	24 fl oz/a					
AMS	2 % w/v					

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Trt Treatment	Rate	Unit	6	7	8	9
18 TOUCHDOWN HI-TECH	1	lb ai/a	98	0	98	90
ACTIVATOR 90	0.25	% v/v				
AMS	2	% w/v				
TOUCHDOWN HI-TECH	1	lb ai/a				
ACTIVATOR 90	0.25	% v/v				
AMS	2	% w/v				
LSD (P=.05)			2.2	5.3	0.0	18.2
Standard Deviation			1.3	3.2	0.0	10.9
CV			1.34	427.37	0.0	13.66
Grand Mean			96.37	0.74	98.0	79.74
Bartlett's X2			1.421	1.353	0.0	9.645
P(Bartlett's X2)			0.922	0.508	.	0.841
Replicate F			0.077	2.957	0.000	0.144
Replicate Prob(F)			0.9258	0.0655	1.0000	0.8661
Treatment F			9.225	1.000	0.000	3.194
Treatment Prob(F)			0.0001	0.4813	1.0000	0.0019

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

SOYBEAN PREEMERGENCE & POSTEMERGENCE

Trial ID: S4012
Location: LEXINGTON, KY

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

General Trial Information

Study Director: CHARLES H. SLACK
Affiliation: UNIVERSITY OF KENTUCKY
Postal Code: 40546
Investigator: Charles H. Slack

Trial Location

City: LEXINGTON **Trial Status:** COMPLETE
State/Prov.: KENTUCKY
Postal Code: 40511 **Initiation Date:** 5-10-04
Directions:

Objectives:

Conclusions:

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: ASGROW 4403
BBCH Scale: BSOY **Planting Date:** 5-10-04
Planting Method: ROW **Rate, Unit:** 190000 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM **Soil Temperature, Unit:** 72 F
Soil Moisture: SLIGHTLY WET **Emergence Date:** 5-16-04

Pest Description

Pest 1 Type: W **Code:** SETFA Setaria faberi
Common Name: Giant Foxtail
Pest 2 Type: W **Code:** AMBTR Ambrosia trifida
Common Name: Giant Ragweed

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD
Plot Length, Unit: 44 FT **Tillage Type:** CONVENTIONAL-TILL
Replications: 3 **Study Design:** Randomized Complete Block

Trial Initiation Comments:

Field Prep./Maintenance:

Soil Description

% Sand: 6 **% OM:** 2.6 **Texture:** SILT LOAM
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY
% Clay: 32 **CEC:** 17 **Fert. Level:** EXCELLENT

Moisture Conditions

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

Application Description

	A		B		C		D	
Application Date:	5-10-04		5-27-04		5-28-04		6-17-04	
Time of Day:	2:00		3:00		11:00		10:00	
Application Method:	SPRAY		SPRAY		SPRAY		SPRAY	
Application Timing:	PRE		MP		LP		+2W	
Application Placement:	BROSOI		BROFOL		BROFOL		BROFOL	
Air Temperature, Unit:	72	F	71	F	69	F	78	F
% Relative Humidity:	69		83		75		82	
Wind Velocity, Unit:	3	MPH	4	MPH	4	MPH	3	MPH
Dew Presence (Y/N):	N		N		N		N	
Soil Temperature, Unit:	72	F	72	F	73	F	80	F
Soil Moisture:	ADEQUATE		ADEQUATE		ADEQUATE		ADEQUATE	
% Cloud Cover:	20		20		10		10	

Crop Stage At Each Application

	A		B		C		D	
Crop 1 Code, BBCH Scale:	GLXMA	BSOY	GLXMA	BSOY	GLXMA	BSOY	GLXMA	BSOY
Stage Scale Used:	BBCH		BBCH		BBCH		BBCH	
Height, Unit:	5		IN 5		IN 5		IN 8	

Pest Stage At Each Application

	A		B		C		D	
Pest 1 Code, Disc., Scale:	SETFA	W	SETFA	W	SETFA	W	SETFA	W
Height, Unit:	4		IN 4		IN 6		IN	
Pest 2 Code, Disc., Scale:	AMBTR	W	AMBTR	W	AMBTR	W	AMBTR	W
Height, Unit:	5		IN 5		IN 8		IN	

Application Equipment

	A		B		C		D	
Appl. Equipment:	ATV		BACKPACK		BACKPACK		BACKPACK	
Operating Pressure:	30		30		30		30	
Pressure Unit:	PSI		PSI		PSI		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:	19	IN	25	IN	25	IN	30	IN
Ground Speed, Unit:	4	MPH	3.5	MPH	3.5	MPH	3.5	MPH
Carrier:	WATER		WATER		WATER		WATER	
Spray Volume:	24		24		24		24	
Volume Unit:	GPA		GPA		GPA		GPA	
Propellant:	CO2		CO2		CO2		CO2	

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

SOYBEAN POSTEMERGENCE

Trial ID: S4014
Location: LEXINGTON, KY

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

Pest Type		W Weed	W Weed	W Weed
Pest Code		CHEAL	IPOSS	SETFA
Pest Name		Lambsquarters, commo Morning glory Giant foxtail		
Crop Code	GLXMA			
BBCH Scale	BSOY			
Crop Name	Soybean			
Rating Data Type	PERCENT	PERCENT	PERCENT	PERCENT
Rating Unit	INJURY	CONTROL	CONTROL	CONTROL
Crop Stage		V3	V3	V3
Trt-Eval Interval	3WK	3WK	3WK	3WK
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt Treatment	Rate	Rate Unit	1	2	3	4
1 INTRRO	1 lb ai/a		0	45	38	65
ROUNDUP WeatherMAX	0.75 lb ae/a					
AMS	3.7 % v/v					
2 INTRRO	1.25 lb ai/a		0	43	30	89
ROUNDUP WeatherMAX	0.75 lb ae/a					
AMS	3.7 % v/v					
3 INTRRO	1.5 lb ai/a		0	48	44	86
ROUNDUP WeatherMAX	0.75 lb ae/a					
AMS	3.7 % v/v					
4 PROWL H20	0.75 lb ai/a		0	88	58	65
ROUNDUP WeatherMAX	0.75 lb ae/a					
AMS	3.7 % v/v					
5 PROWL H20	1 lb ai/a		0	81	64	75
ROUNDUP WeatherMAX	0.75 lb ae/a					
AMS	3.7 % v/v					
6 VALOR SX	0.0312 lb ai/a		0	76	49	66
ROUNDUP WeatherMAX	0.75 lb ae/a					
AMS	3.7 % v/v					
7 CANOPY XL	0.047 lb ai/a		0	79	53	30
ROUNDUP WeatherMAX	0.75 lb ae/a					
AMS	3.7 % v/v					
8 VALOR SX	0.047 lb ai/a		0	90	73	64
FIRSTRATE	0.016 lb ai/a					
ROUNDUP WeatherMAX	0.75 lb ae/a					
AMS	3.7 % v/v					
9 FIRSTRATE	0.016 lb ai/a		0	73	60	61
ROUNDUP WeatherMAX	0.75 lb ae/a					
AMS	3.7 % v/v					
10 CHECK			0	13	13	25
ROUNDUP WeatherMAX	0.75 lb ae/a					
AMS	3.7 % v/v					
11 CHECK			0	0	0	0
ROUNDUP WeatherMAX	0.75 lb ae/a					
AMS	3.7 % v/v					
ROUNDUP WeatherMAX	0.75 lb ae/a					
AMS	3.7 % v/v					
12 CHECK			0	0	0	0
LSD (P=.05)			0.0	26.4	25.3	30.3
Standard Deviation			0.0	18.3	17.5	21.0
CV			0.0	34.61	43.91	40.22
Grand Mean			0.0	52.81	39.9	52.19
Bartlett's X2			0.0	17.862	13.602	23.365
P(Bartlett's X2)			.	0.022*	0.137	0.005*
Replicate F			0.000	3.099	4.352	0.531
Replicate Prob(F)			1.0000	0.0400	0.0109	0.6644
Treatment F			0.000	13.500	7.864	8.613
Treatment Prob(F)			1.0000	0.0001	0.0001	0.0001

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

Pest Type	W Weed	W Weed	W Weed
Pest Code	AMBTR	CHEAL	IPOSS
Pest Name	Giant Ragweed	Lambsquarters, commo	Morning glory
Crop Code		GLXMA	
BBCH Scale		BSOY	
Crop Name		Soybean	
Rating Data Type	PERCENT	PERCENT	PERCENT
Rating Unit	CONTROL	INJURY	CONTROL
Crop Stage	V3	V3	V3
Trt-Eval Interval	3WK	6WK	6WK
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt Treatment	Rate	Rate Unit	5	6	7	8
1 INTRRO	1 lb ai/a		35	0	86	76
ROUNDUP WeatherMAX	0.75 lb ae/a					
AMS	3.7 % v/v					
2 INTRRO	1.25 lb ai/a		53	0	92	79
ROUNDUP WeatherMAX	0.75 lb ae/a					
AMS	3.7 % v/v					
3 INTRRO	1.5 lb ai/a		65	0	91	76
ROUNDUP WeatherMAX	0.75 lb ae/a					
AMS	3.7 % v/v					
4 PROWL H20	0.75 lb ai/a		23	0	95	75
ROUNDUP WeatherMAX	0.75 lb ae/a					
AMS	3.7 % v/v					
5 PROWL H20	1 lb ai/a		50	0	95	79
ROUNDUP WeatherMAX	0.75 lb ae/a					
AMS	3.7 % v/v					
6 VALOR SX	0.0312 lb ai/a		38	0	96	78
ROUNDUP WeatherMAX	0.75 lb ae/a					
AMS	3.7 % v/v					
7 CANOPY XL	0.047 lb ai/a		34	0	94	81
ROUNDUP WeatherMAX	0.75 lb ae/a					
AMS	3.7 % v/v					
8 VALOR SX	0.047 lb ai/a		63	0	93	80
FIRSTRATE	0.016 lb ai/a					
ROUNDUP WeatherMAX	0.75 lb ae/a					
AMS	3.7 % v/v					
9 FIRSTRATE	0.016 lb ai/a		61	0	94	80
ROUNDUP WeatherMAX	0.75 lb ae/a					
AMS	3.7 % v/v					
10 CHECK			23	0	88	78
ROUNDUP WeatherMAX	0.75 lb ae/a					
AMS	3.7 % v/v					
11 CHECK			33	0	89	78
ROUNDUP WeatherMAX	0.75 lb ae/a					
AMS	3.7 % v/v					
ROUNDUP WeatherMAX	0.75 lb ae/a					
AMS	3.7 % v/v					
12 CHECK			13	0	0	0
LSD (P=.05)			39.6	0.0	5.7	7.3
Standard Deviation			27.4	0.0	4.0	5.1
CV			67.56	0.0	4.73	7.09
Grand Mean			40.63	0.0	84.19	71.56
Bartlett's X2			12.926	0.0	7.467	8.386
P(Bartlett's X2)			0.298	.	0.681	0.496
Replicate F			0.954	0.000	0.706	2.822
Replicate Prob(F)			0.4258	1.0000	0.5551	0.0539
Treatment F			1.607	0.000	179.850	79.325
Treatment Prob(F)			0.1424	1.0000	0.0001	0.0001

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Weed Science Field Research

Pest Type	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL
Pest Name	Giant foxtail	Giant Ragweed	Lambsquarters, commo
Crop Code			GLXMA
BBCH Scale			BSOY
Crop Name			Soybean
Rating Data Type	PERCENT	PERCENT	PERCENT
Rating Unit	CONTROL	CONTROL	INJURY
Crop Stage	V3	V3	V3
Trt-Eval Interval	6WK	6WK	8WK
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt Treatment No. Name	Rate	Rate Unit	9	10	11	12
1 INTRRO	1 lb ai/a		83	66	0	84
ROUNDUP WeatherMAX	0.75 lb ae/a					
AMS	3.7 % v/v					
2 INTRRO	1.25 lb ai/a		81	73	0	81
ROUNDUP WeatherMAX	0.75 lb ae/a					
AMS	3.7 % v/v					
3 INTRRO	1.5 lb ai/a		78	63	0	79
ROUNDUP WeatherMAX	0.75 lb ae/a					
AMS	3.7 % v/v					
4 PROWL H20	0.75 lb ai/a		76	60	0	81
ROUNDUP WeatherMAX	0.75 lb ae/a					
AMS	3.7 % v/v					
5 PROWL H20	1 lb ai/a		75	60	0	90
ROUNDUP WeatherMAX	0.75 lb ae/a					
AMS	3.7 % v/v					
6 VALOR SX	0.0312 lb ai/a		80	70	0	86
ROUNDUP WeatherMAX	0.75 lb ae/a					
AMS	3.7 % v/v					
7 CANOPY XL	0.047 lb ai/a		87	72	0	91
ROUNDUP WeatherMAX	0.75 lb ae/a					
AMS	3.7 % v/v					
8 VALOR SX	0.047 lb ai/a		83	76	0	89
FIRSTRATE	0.016 lb ai/a					
ROUNDUP WeatherMAX	0.75 lb ae/a					
AMS	3.7 % v/v					
9 FIRSTRATE	0.016 lb ai/a		80	74	0	86
ROUNDUP WeatherMAX	0.75 lb ae/a					
AMS	3.7 % v/v					
10 CHECK			78	70	0	80
ROUNDUP WeatherMAX	0.75 lb ae/a					
AMS	3.7 % v/v					
11 CHECK			80	73	0	99
ROUNDUP WeatherMAX	0.75 lb ae/a					
AMS	3.7 % v/v					
ROUNDUP WeatherMAX	0.75 lb ae/a					
AMS	3.7 % v/v					
12 CHECK			0	0	0	0
LSD (P=.05)			12.9	14.2	0.0	10.7
Standard Deviation			8.9	9.8	0.0	7.4
CV			12.2	15.6	0.0	9.37
Grand Mean			73.25	62.98	0.0	78.88
Bartlett's X2			5.215	10.638	0.0	12.172
P(Bartlett's X2)			0.876	0.386	.	0.204
Replicate F			16.117	0.287	0.000	2.418
Replicate Prob(F)			0.0001	0.8346	1.0000	0.0838
Treatment F			27.159	17.507	0.000	47.588
Treatment Prob(F)			0.0001	0.0001	1.0000	0.0001

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 Weed Science Field Research

Pest Type	W Weed	W Weed	W Weed
Pest Code	IPOSS	AMBTR	SETFA
Pest Name	Morning glory Giant	Ragweed Giant	foxtail
Crop Code			
BBCH Scale			
Crop Name			
Rating Data Type	PERCENT	PERCENT	PERCENT
Rating Unit	CONTROL	CONTROL	CONTROL
Crop Stage	V3	V3	V3
Trt-Eval Interval	8WK	8WK	8WK
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt Treatment	Rate	Rate Unit	13	14	15
1 INTRRO	1 lb ai/a		76	60	90
ROUNDUP WeatherMAX	0.75 lb ae/a				
AMS	3.7 % v/v				
2 INTRRO	1.25 lb ai/a		83	76	88
ROUNDUP WeatherMAX	0.75 lb ae/a				
AMS	3.7 % v/v				
3 INTRRO	1.5 lb ai/a		78	61	91
ROUNDUP WeatherMAX	0.75 lb ae/a				
AMS	3.7 % v/v				
4 PROWL H20	0.75 lb ai/a		76	56	90
ROUNDUP WeatherMAX	0.75 lb ae/a				
AMS	3.7 % v/v				
5 PROWL H20	1 lb ai/a		80	66	86
ROUNDUP WeatherMAX	0.75 lb ae/a				
AMS	3.7 % v/v				
6 VALOR SX	0.0312 lb ai/a		78	65	93
ROUNDUP WeatherMAX	0.75 lb ae/a				
AMS	3.7 % v/v				
7 CANOPY XL	0.047 lb ai/a		83	65	84
ROUNDUP WeatherMAX	0.75 lb ae/a				
AMS	3.7 % v/v				
8 VALOR SX	0.047 lb ai/a		84	74	86
FIRSTRATE	0.016 lb ai/a				
ROUNDUP WeatherMAX	0.75 lb ae/a				
AMS	3.7 % v/v				
9 FIRSTRATE	0.016 lb ai/a		81	74	80
ROUNDUP WeatherMAX	0.75 lb ae/a				
AMS	3.7 % v/v				
10 CHECK			79	70	84
ROUNDUP WeatherMAX	0.75 lb ae/a				
AMS	3.7 % v/v				
11 CHECK			95	99	99
ROUNDUP WeatherMAX	0.75 lb ae/a				
AMS	3.7 % v/v				
ROUNDUP WeatherMAX	0.75 lb ae/a				
AMS	3.7 % v/v				
12 CHECK			0	0	0
LSD (P=.05)			10.6	18.2	10.1
Standard Deviation			7.3	12.6	7.0
CV			9.87	19.73	8.65
Grand Mean			74.23	63.85	80.88
Bartlett's X2			13.537	12.643	11.968
P(Bartlett's X2)			0.14	0.179	0.215
Replicate F			1.141	4.318	3.541
Replicate Prob(F)			0.3469	0.0113	0.0251
Treatment F			42.616	13.260	55.009
Treatment Prob(F)			0.0001	0.0001	0.0001

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

SOYBEAN POSTEMERGENCE

Trial ID: S4014
Location: LEXINGTON, KYStudy Director: CHARLES H. SLACK
Investigator: Charles H. Slack**General Trial Information****Study Director:** CHARLES H. SLACK
Affiliation: UNIVERSITY OF KENTUCKY
Postal Code: 40546
Investigator: Charles H. Slack**Trial Location****City:** LEXINGTON **Trial Status:** COMPLETE
State/Prov.: KENTUCKY
Postal Code: 40511 **Initiation Date:** 5-7-04
Directions:**Objectives:****Conclusions:****Crop Description****Crop 1:** GLXMA Glycine max Soybean
Variety: ASGROW 4403
BBCH Scale: BSOY **Planting Date:** 5-7-04
Planting Method: ROW **Rate, Unit:** 190000 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM **Soil Temperature, Unit:** 69 F
Soil Moisture: SLIGHTLY WET **Emergence Date:** 5-14-04**Pest Description****Pest 1 Type:** W **Code:** CHEAL **Chenopodium album**
Common Name: Lambsquarters, common
Pest 2 Type: W **Code:** IPOSS **Ipomoea sp.**
Common Name: Morning glory
Pest 3 Type: W **Code:** SETFA **Setaria faberi**
Common Name: Giant Foxtail
Pest 4 Type: W **Code:** AMBTR **Ambrosia trifida**
Common Name: Giant Ragweed**Site and Design****Plot Width, Unit:** 10 FT **Site Type:** FIELD
Plot Length, Unit: 33 FT **Tillage Type:** CONVENTIONAL-TILL
Replications: 4 **Study Design:** Randomized Complete Block**Trial Initiation Comments:****Field Prep./Maintenance:****Soil Description****% Sand:** 6 **% OM:** 2.6 **Texture:** SILT LOAM
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY
% Clay: 32 **CEC:** 17 **Fert. Level:** EXCELLENT**Moisture Conditions****Overall Moisture Conditions:** NORMAL
Closest Weather Station: SPINDLETOP **Distance:** 1.5 **Unit:** MI

Application Description

	A	B	C
Application Date:	5-7-04	5-27-04	6-17-04
Time of Day:	10:00	3:00	2:00
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	LP	+2W
Application Placement:	BROSOI	BROFOL	BROFOL
Air Temperature, Unit:	72 F	71 F	78 F
% Relative Humidity:	73	83	82
Wind Velocity, Unit:	4 MPH	3 MPH	4 MPH
Dew Presence (Y/N):	N	N	N
Soil Temperature, Unit:	69 F	72 F	80 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	10	20	20

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:	BBCH	BBCH	BBCH
Height, Unit:		5 IN	8 IN

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Disc., Scale:	CHEAL W	CHEAL W	CHEAL W
Height, Unit:		3 IN	5 IN
Pest 2 Code, Disc., Scale:	IPOSS W	IPOSS W	IPOSS W
Height, Unit:		1.5 IN	2.5 IN
Pest 3 Code, Disc., Scale:	SETFA W	SETFA W	SETFA W
Height, Unit:		4 IN	5.5 IN
Pest 4 Code, Disc., Scale:	AMBTR W	AMBTR W	AMBTR W

Application Equipment

	A	B	C
Appl. Equipment:	ATV	BACKPACK	BACKPACK
Operating Pressure:	30	30	30
Pressure Unit:	PSI	PSI	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:	19 IN	25 IN	30 IN
Ground Speed, Unit:	4 MPH	3.5 MPH	3.5 MPH
Carrier:	WATER	WATER	WATER
Spray Volume:	24	24	24
Volume Unit:	GPA	GPA	GPA
Propellant:	CO2	CO2	CO2

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

SOYBEAN POSTEMERGENCE VOLUNTEER ROUNDUP READY CORN CONTROL

Trial ID: S4015
Location: LEXINGTON, KY

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

Pest Type	W	Weed	W	Weed	W	Weed
Pest Code		ZEAMX		ZEAMX		ZEAMX
Pest Name		Corn		Corn		Corn
Crop Variety	Dent cor					
Rating Data Type	CONTROL		CONTROL		CONTROL	
Rating Unit	PERCENT		PERCENT		PERCENT	
Crop Stage					V8	R3
Trt-Eval Interval	2 WEEK		3 WEEK		8 WEEK	

Trt Treatment	Rate	Unit	1	2	3
No. Name	Rate	Unit			
1 ROUNDUP WeatherMAX	0.75	lb ae/a	91	88	88
SELECT	0.078	lb ai/a			
AMS	2	% w/v			
2 ROUNDUP WeatherMAX	0.75	lb ae/a	87	84	84
SELECT	0.078	lb ai/a			
3 ROUNDUP WeatherMAX	0.75	lb ae/a	93	94	94
MON 54179	0.078	lb ai/a			
AMS	2	% w/v			
4 ROUNDUP WeatherMAX	0.75	lb ae/a	89	91	91
MON 54179	0.078	lb ai/a			
5 ROUNDUP WeatherMAX	0.75	lb ae/a	98	99	99
ASSURE II	0.034	lb ai/a			
AMS	2	% w/v			
6 ROUNDUP WeatherMAX	0.75	lb ae/a	99	97	97
MON 24710	0.034	lb ai/a			
AMS	2	% w/v			
7 ROUNDUP WeatherMAX	0.75	lb ae/a	98	98	98
MON 24755	0.034	lb ai/a			
AMS	2	% w/v			
8 ROUNDUP WeatherMAX	0.75	lb ae/a	95	95	95
MON 24755	0.034	lb ai/a			
9 ROUNDUP WeatherMAX	0.75	lb ae/a		92	92
SELECT	0.094	lb ai/a			
AMS	2	% w/v			
10 ROUNDUP WeatherMAX	0.75	lb ae/a		94	94
SELECT	0.094	lb ai/a			
AMS	2	% w/v			
SUPERB HC	2	% v/v			
11 ROUNDUP WeatherMAX	0.75	lb ae/a		93	93
SELECT	0.094	lb ai/a			
12 ROUNDUP WeatherMAX	0.75	lb ae/a		94	94
MON 54179	0.094	lb ai/a			
AMS	2	% w/v			
13 ROUNDUP WeatherMAX	0.75	lb ae/a		94	94
MON 54179	0.094	lb ai/a			
AMS	2	% w/v			
SUPERB HC	2	% v/v			
14 ROUNDUP WeatherMAX	0.75	lb ae/a		94	94
MON 54179	0.094	lb ai/a			
15 ROUNDUP WeatherMAX	0.75	lb ae/a		100	100
ASSURE II	0.034	lb ai/a			
AMS	2	% w/v			
16 ROUNDUP WeatherMAX	0.75	lb ae/a		98	98
ASSURE II	0.034	lb ai/a			
17 ROUNDUP WeatherMAX	0.75	lb ae/a		99	99
MON 24710	0.034	lb ai/a			
AMS	2	% w/v			
18 ROUNDUP WeatherMAX	0.75	lb ae/a		100	100
MON 24755	0.034	lb ai/a			
AMS	2	% w/v			
SUPERB HC	2	% v/v			
19 ROUNDUP WeatherMAX	0.75	lb ae/a		97	97
MON 24755	0.034	lb ai/a			

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 Weed Science Field Research

Pest Type	W	Weed	W	Weed	W	Weed
Pest Code	Z	EAMX	Z	EAMX	Z	EAMX
Pest Name	Corn		Corn		Corn	
Crop Variety	Dent cor					
Rating Data Type	CONTROL		CONTROL		CONTROL	
Rating Unit	PERCENT		PERCENT		PERCENT	
Crop Stage			V8		R3	
Trt-Eval Interval	2 WEEK		3 WEEK		8 WEEK	

Trt Treatment	Rate	Rate			
No. Name	Rate	Unit	1	2	3
20 CHECK				0	0
LSD (P=.05)			3.3	3.8	3.8
Standard Deviation			2.3	2.7	2.7
CV			2.41	2.97	2.97
Grand Mean			93.63	89.91	89.91
Bartlett's X2			6.372	49.261	49.261
P(Bartlett's X2)			0.497	0.001*	0.001*
Replicate F			0.902	1.026	1.026
Replicate Prob(F)			0.4569	0.3880	0.3880
Treatment F			15.710	260.446	260.446
Treatment Prob(F)			0.0001	0.0001	0.0001

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

SOYBEAN POSTEMERGENCE VOLUNTEER ROUNDUP READY CORN CONTROL

Trial ID: S4015
Location: LEXINGTON, KY

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

General Trial Information

Study Director: CHARLES H. SLACK
Affiliation: UNIVERSITY OF KENTUCKY
Postal Code: 40546
Investigator: Charles H. Slack

Trial Location

City: LEXINGTON
State/Prov.: KENTUCKY
Postal Code: 40511
Directions:

Trial Status: COMPLETE
Initiation Date: 5-7-04

Objectives:

Conclusions:

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: ASGOW 4403
BBCH Scale: BSOY
Planting Method: ROW
Depth, Unit: 1.25 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM
Soil Moisture: SLIGHTLY WET

Planting Date: 5-7-04
Rate, Unit: 190000 S/A
Soil Temperature, Unit: 69 F
Emergence Date: 5-12-04

Pest Description

Pest 1 Type: W **Code:** ZEAMX Zea mays
Common Name: Corn

Site and Design

Plot Width, Unit: 10 FT
Plot Length, Unit: 33 FT
Replications: 4

Site Type: FIELD
Tillage Type: CONVENTIONAL-TILL
Study Design: Randomized Complete Block

Trial Initiation Comments:

Field Prep./Maintenance:

Soil Description

% Sand: 6 **% OM:** 2.6
% Silt: 62 **pH:** 6.4
% Clay: 32 **CEC:** 17

Texture: SILT LOAM
Soil Name: MAURY
Fert. Level: EXCELLENT

Moisture Conditions

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

Application Description

	A	B
Application Date:	6-3-04	6-10-04
Time of Day:	10:00	2:00
Application Method:	SPRAY	SPRAY
Application Timing:	18C	24C
Application Placement:	BROFOL	BROFOL
Air Temperature, Unit:	66 F	76 F
% Relative Humidity:	73	76
Wind Velocity, Unit:	3 MPH	3 MPH
Dew Presence (Y/N):	N	N
Soil Temperature, Unit:	70 F	78 F
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	10	20

Crop Stage At Each Application

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

Pest Stage At Each Application

	A		B	
Pest 1 Code, Disc., Scale:	ZEAMX	W	ZEAMX	W
Height, Unit:	18	IN	24	IN

Application Equipment

	A		B	
Appl. Equipment:	BACKPACK		BACKPACK	
Operating Pressure:	30		30	
Pressure Unit:	PSI		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:	35	IN	42	IN
Ground Speed, Unit:	3.5	MPH	3.5	MPH
Carrier:	WATER		WATER	
Spray Volume:	24		24	
Volume Unit:	GPA		GPA	
Propellant:	CO2		CO2	

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

SOYBEAN EARLY PREPLANT

Trial ID: S4018
Location: LEXINGTON, KY

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

Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		STEME	TAROF	LAMAM	SETFA
Pest Name		Common chickweed	Common dandelion	Henbit	Giant foxtail
Crop Code	GLXMA				
BBCH Scale	BSOY				
Crop Name	Soybean				
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	1	2	3	4	5
1	CLASSIC	2	oz/a	0	95	90	95	98
	EXPRESS	0.2	oz/a					
	WEEDONE LV4	1	pt/a					
	COC	1	qt/a					
2	CANOPY XL	4.5	oz/a	0	98	95	98	98
	EXPRESS	0.2	oz/a					
	WEEDONE LV4	1	pt/a					
	COC	1	qt/a					
3	CLASSIC	1.5	oz/a	0	95	95	97	99
	EXPRESS	0.15	oz/a					
	WEEDONE LV4	1	pt/a					
	COC	1	qt/a					
4	CANOPY XL	3.5	oz/a	0	97	95	98	97
	EXPRESS	0.15	oz/a					
	WEEDONE LV4	1	pt/a					
	COC	1	qt/a					
5	CLASSIC	1	oz/a	0	96	95	96	99
	EXPRESS	0.1	oz/a					
	WEEDONE LV4	1	pt/a					
	COC	1	qt/a					
6	CANOPY XL	2.5	oz/a	0	97	95	97	99
	EXPRESS	0.1	oz/a					
	WEEDONE LV4	1	pt/a					
	COC	1	qt/a					
7	GRAMOXONE MAX	0.638	lb ai/a	10	98	95	98	99
	CANOPY XL	5	oz/a					
	WEEDONE LV4	0.5	lb ai/a					
	COC	1	qt/a					
	SYNCHRONY STS	0.25	oz/a					
	ASSURE II	8	fl oz/a					
	COC	1	qt/a					
	LIQUID N	2	qt/a					
8	GRAMOXONE MAX	0.638	lb ai/a	0	98	95	98	99
	CANOPY XL	5	oz/a					
	WEEDONE LV4	0.5	lb ai/a					
	COC	1	qt/a					
	ROUNDUP WeatherMAX	22	fl oz/a					
	AMS	3.7	% v/v					
9	ROUNDUP WeatherMAX	22	fl oz/a	10	95	93	97	99
	SYNCHRONY STS	0.5	oz/a					
	AMS	3.7	% v/v					
	ROUNDUP WeatherMAX	22	fl oz/a					
	SYNCHRONY STS	0.25	oz/a					
	AMS	3.7	% v/v					
10	BOUNDARY	1.21	lb ai/a	0	93	91	95	99
	GRAMOXONE MAX	1	lb ai/a					
	WEEDONE LV4	0.5	lb ai/a					
	ACTIVATOR 90	0.25	% v/v					
	TOUCHDOWN TOTAL	1	lb ai/a					
	AMS	2	% w/v					

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Weed Science Field Research

Pest Type			W Weed	W Weed	W Weed	W Weed		
Pest Code			STEME	TAROF	LAMAM	SETFA		
Pest Name			Common chickweed	Common dandelion	Henbit	Giant foxtail		
Crop Code		GLXMA						
BBCH Scale		BSOY						
Crop Name		Soybean						
Rating Data Type		INJURY	CONTROL	CONTROL	CONTROL	CONTROL		
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT		
Trt-Eval Interval		2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK		
ARM Action Codes		P	P	P	P	P		
Number of Decimals		0	0	0	0	0		
Trt Treatment	Rate	Rate						
No. Name	Rate	Unit	1	2	3	4	5	
11 BOUNDARY	1.21	lb ai/a	0		96	95	97	99
GRAMOXONE MAX		1 lb ai/a						
ACTIVATOR 90	0.25	% v/v						
TOUCHDOWN TOTAL		1 lb ai/a						
AMS		2 % w/v						
12 BOUNDARY	1.21	lb ai/a	0		98	97	98	99
TOUCHDOWN TOTAL		1 lb ai/a						
AMS		2 % w/v						
WEEDONE LV4	0.5	lb ai/a						
ACTIVATOR 90	0.25	% v/v						
TOUCHDOWN TOTAL		1 lb ai/a						
AMS		2 % w/v						
13 BOUNDARY	1.21	lb ai/a	0		97	95	98	99
TOUCHDOWN TOTAL		1 lb ai/a						
AMS		2 % w/v						
TOUCHDOWN TOTAL		1 lb ai/a						
AMS		2 % w/v						
14 BOUNDARY	1.21	lb ai/a	0		98	94	98	99
GRAMOXONE MAX		1 lb ai/a						
WEEDONE LV4	0.5	lb ai/a						
ACTIVATOR 90	0.25	% v/v						
FLEXSTAR	0.353	lb ai/a						
FUSION	0.25	lb ai/a						
COC		1 qt/a						
LIQUID N		4 qt/a						
15 BOUNDARY	1.21	lb ai/a	0		97	95	98	99
GRAMOXONE MAX		1 lb ai/a						
ACTIVATOR 90	0.25	% v/v						
FLEXSTAR	0.353	lb ai/a						
FUSION	0.25	lb ai/a						
COC		1 qt/a						
LIQUID N		4 qt/a						
16 BOUNDARY	1.21	lb ai/a	0		98	97	97	99
TOUCHDOWN IQ		1 lb ai/a						
WEEDONE LV4	0.5	lb ai/a						
AMS		2 % w/v						
FLEXSTAR	0.353	lb ai/a						
FUSION	0.25	lb ai/a						
COC		1 qt/a						
LIQUID N		4 qt/a						
17 BOUNDARY	1.21	lb ai/a	0		98	97	98	99
TOUCHDOWN IQ		1 lb ai/a						
AMS		2 % w/v						
FLEXSTAR	0.353	lb ai/a						
FUSION	0.25	lb ai/a						
COC		1 qt/a						
LIQUID N		4 qt/a						
18 ROUNDUP WeatherMAX	22	fl oz/a	0		98	91	98	99
AMS	3.7	% v/v						
ROUNDUP WeatherMAX	22	fl oz/a						
AMS	3.7	% v/v						
LSD (P=.05)			0.0		2.1	2.0	1.3	1.2
Standard Deviation			0.0		1.4	1.4	0.9	0.8
CV			0.0		1.5	1.49	0.98	0.83
Grand Mean			1.11		96.75	94.35	97.21	98.78
Bartlett's X2			0.0		10.267	1.628	0.179	0.084
P(Bartlett's X2)			.		0.114	0.951	0.999	0.959

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Weed Science Field Research

Pest Type		W Weed		W Weed	W Weed		W Weed
Pest Code		STEME		TAROF	LAMAM		SETFA
Pest Name		Common chickweed		Common dandelion	Henbit	Giant	foxtail
Crop Code	GLXMA						
BBCH Scale	BSOY						
Crop Name	Soybean						
Rating Data Type	INJURY	CONTROL		CONTROL	CONTROL		CONTROL
Rating Unit	PERCENT	PERCENT		PERCENT	PERCENT		PERCENT
Trt-Eval Interval	2 WEEK	2 WEEK		2 WEEK	2 WEEK		2 WEEK
ARM Action Codes	P	P		P	P		P
Number of Decimals	0	0		0	0		0

Trt Treatment	Rate	Unit	1	2	3	4	5
Replicate F			0.000	2.264	1.143	0.510	2.615
Replicate Prob(F)			1.0000	0.0922	0.3407	0.6775	0.0610
Treatment F			0.000	4.756	7.101	5.142	1.769
Treatment Prob(F)			1.0000	0.0001	0.0001	0.0001	0.0597

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Weed Science Field Research

Pest Type			W Weed	W Weed		W Weed
Pest Code			AMBTR	IPOSS		STEME
Pest Name			Giant Ragweed	Morning glory		Common chickweed
Crop Code					GLXMA	
BBCH Scale					BSOY	
Crop Name					Soybean	
Rating Data Type			CONTROL	CONTROL	INJURY	CONTROL
Rating Unit			PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval			2 WEEK	2 WEEK	4 WEEK	2 WEEK
ARM Action Codes			P	P	P	P
Number of Decimals			0	0	0	0
Trt Treatment	Rate	Rate				
No. Name	Rate	Unit	6	7	8	9
1 CLASSIC	2	oz/a	83	96	0	99
EXPRESS	0.2	oz/a				
WEEDONE LV4	1	pt/a				
COC	1	qt/a				
2 CANOPY XL	4.5	oz/a	81	96	0	99
EXPRESS	0.2	oz/a				
WEEDONE LV4	1	pt/a				
COC	1	qt/a				
3 CLASSIC	1.5	oz/a	82	97	0	99
EXPRESS	0.15	oz/a				
WEEDONE LV4	1	pt/a				
COC	1	qt/a				
4 CANOPY XL	3.5	oz/a	81	97	0	99
EXPRESS	0.15	oz/a				
WEEDONE LV4	1	pt/a				
COC	1	qt/a				
5 CLASSIC	1	oz/a	78	98	0	99
EXPRESS	0.1	oz/a				
WEEDONE LV4	1	pt/a				
COC	1	qt/a				
6 CANOPY XL	2.5	oz/a	78	98	0	99
EXPRESS	0.1	oz/a				
WEEDONE LV4	1	pt/a				
COC	1	qt/a				
7 GRAMOXONE MAX	0.638	lb ai/a	99	99	0	99
CANOPY XL	5	oz/a				
WEEDONE LV4	0.5	lb ai/a				
COC	1	qt/a				
SYNCHRONY STS	0.25	oz/a				
ASSURE II	8	fl oz/a				
COC	1	qt/a				
LIQUID N	2	qt/a				
8 GRAMOXONE MAX	0.638	lb ai/a	99	99	0	98
CANOPY XL	5	oz/a				
WEEDONE LV4	0.5	lb ai/a				
COC	1	qt/a				
ROUNDUP WeatherMAX	22	fl oz/a				
AMS	3.7	% v/v				
9 ROUNDUP WeatherMAX	22	fl oz/a	99	99	0	99
SYNCHRONY STS	0.5	oz/a				
AMS	3.7	% v/v				
ROUNDUP WeatherMAX	22	fl oz/a				
SYNCHRONY STS	0.25	oz/a				
AMS	3.7	% v/v				
10 BOUNDARY	1.21	lb ai/a	99	99	0	99
GRAMOXONE MAX	1	lb ai/a				
WEEDONE LV4	0.5	lb ai/a				
ACTIVATOR 90	0.25	% v/v				
TOUCHDOWN TOTAL	1	lb ai/a				
AMS	2	% w/v				
11 BOUNDARY	1.21	lb ai/a	99	99	0	99
GRAMOXONE MAX	1	lb ai/a				
ACTIVATOR 90	0.25	% v/v				
TOUCHDOWN TOTAL	1	lb ai/a				
AMS	2	% w/v				

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Weed Science Field Research

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	IPOSS	STEME	
Pest Name	Giant Ragweed	Morning glory	Common chickweed	
Crop Code			GLXMA	
BBCH Scale			BSOY	
Crop Name			Soybean	
Rating Data Type	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEK	2 WEEK	4 WEEK	2 WEEK
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0
Trt Treatment	Rate	Rate		
No. Name	Rate	Unit	6	7
12 BOUNDARY	1.21	lb ai/a	99	99
TOUCHDOWN TOTAL	1	lb ai/a		0
AMS	2	% w/v		
WEEDONE LV4	0.5	lb ai/a		
ACTIVATOR 90	0.25	% v/v		
TOUCHDOWN TOTAL	1	lb ai/a		98
AMS	2	% w/v		
13 BOUNDARY	1.21	lb ai/a	99	99
TOUCHDOWN TOTAL	1	lb ai/a		0
AMS	2	% w/v		
TOUCHDOWN TOTAL	1	lb ai/a		
AMS	2	% w/v		
14 BOUNDARY	1.21	lb ai/a	98	99
GRAMOXONE MAX	1	lb ai/a		0
WEEDONE LV4	0.5	lb ai/a		
ACTIVATOR 90	0.25	% v/v		
FLEXSTAR	0.353	lb ai/a		
FUSION	0.25	lb ai/a		
COC	1	qt/a		
LIQUID N	4	qt/a		
15 BOUNDARY	1.21	lb ai/a	99	99
GRAMOXONE MAX	1	lb ai/a		0
ACTIVATOR 90	0.25	% v/v		
FLEXSTAR	0.353	lb ai/a		
FUSION	0.25	lb ai/a		
COC	1	qt/a		
LIQUID N	4	qt/a		
16 BOUNDARY	1.21	lb ai/a	99	99
TOUCHDOWN IQ	1	lb ai/a		0
WEEDONE LV4	0.5	lb ai/a		
AMS	2	% w/v		
FLEXSTAR	0.353	lb ai/a		
FUSION	0.25	lb ai/a		
COC	1	qt/a		
LIQUID N	4	qt/a		
17 BOUNDARY	1.21	lb ai/a	99	99
TOUCHDOWN IQ	1	lb ai/a		0
AMS	2	% w/v		
FLEXSTAR	0.353	lb ai/a		
FUSION	0.25	lb ai/a		
COC	1	qt/a		
LIQUID N	4	qt/a		
18 ROUNDUP WeatherMAX	22	fl oz/a	99	99
AMS	3.7	% v/v		0
ROUNDUP WeatherMAX	22	fl oz/a		
AMS	3.7	% v/v		
LSD (P=.05)			6.1	2.5
Standard Deviation			4.3	1.8
CV			4.65	1.79
Grand Mean			92.75	98.29
Bartlett's X2			7.051	4.299
P(Bartlett's X2)			0.316	0.507
Replicate F			1.559	5.704
Replicate Prob(F)			0.2107	0.0019
Treatment F			17.633	1.765
Treatment Prob(F)			0.0001	0.0605

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Weed Science Field Research

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	TAROF	LAMAM	SETFA	AMBTR
Pest Name	Common dandelion	Henbit Giant	foxtail Giant	Ragweed
Crop Code				
BBCH Scale				
Crop Name				
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEK	2 WEEK	4 WEEK	4 WEEK
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt Treatment	Rate	Rate Unit	10	11	12	13	
No. Name	Rate	Unit					
1 CLASSIC	2	oz/a		98	99	98	71
EXPRESS	0.2	oz/a					
WEEDONE LV4	1	pt/a					
COC	1	qt/a					
2 CANOPY XL	4.5	oz/a		98	98	98	69
EXPRESS	0.2	oz/a					
WEEDONE LV4	1	pt/a					
COC	1	qt/a					
3 CLASSIC	1.5	oz/a		98	99	99	68
EXPRESS	0.15	oz/a					
WEEDONE LV4	1	pt/a					
COC	1	qt/a					
4 CANOPY XL	3.5	oz/a		98	98	97	68
EXPRESS	0.15	oz/a					
WEEDONE LV4	1	pt/a					
COC	1	qt/a					
5 CLASSIC	1	oz/a		98	99	99	63
EXPRESS	0.1	oz/a					
WEEDONE LV4	1	pt/a					
COC	1	qt/a					
6 CANOPY XL	2.5	oz/a		98	99	99	60
EXPRESS	0.1	oz/a					
WEEDONE LV4	1	pt/a					
COC	1	qt/a					
7 GRAMOXONE MAX	0.638	lb ai/a		98	98	99	99
CANOPY XL	5	oz/a					
WEEDONE LV4	0.5	lb ai/a					
COC	1	qt/a					
SYNCHRONY STS	0.25	oz/a					
ASSURE II	8	fl oz/a					
COC	1	qt/a					
LIQUID N	2	qt/a					
8 GRAMOXONE MAX	0.638	lb ai/a		98	98	99	99
CANOPY XL	5	oz/a					
WEEDONE LV4	0.5	lb ai/a					
COC	1	qt/a					
ROUNDUP WeatherMAX	22	fl oz/a					
AMS	3.7	% v/v					
9 ROUNDUP WeatherMAX	22	fl oz/a		97	99	99	99
SYNCHRONY STS	0.5	oz/a					
AMS	3.7	% v/v					
ROUNDUP WeatherMAX	22	fl oz/a					
SYNCHRONY STS	0.25	oz/a					
AMS	3.7	% v/v					
10 BOUNDARY	1.21	lb ai/a		97	99	99	99
GRAMOXONE MAX	1	lb ai/a					
WEEDONE LV4	0.5	lb ai/a					
ACTIVATOR 90	0.25	% v/v					
TOUCHDOWN TOTAL	1	lb ai/a					
AMS	2	% w/v					
11 BOUNDARY	1.21	lb ai/a		97	99	99	99
GRAMOXONE MAX	1	lb ai/a					
ACTIVATOR 90	0.25	% v/v					
TOUCHDOWN TOTAL	1	lb ai/a					
AMS	2	% w/v					

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Pest Type	W	Weed	W	Weed	W	Weed	W	Weed
Pest Code	TAROF	LAMAM	SETFA	AMBTR				
Pest Name	Common dandelion	Henbit Giant	foxtail Giant	Ragweed				
Crop Code								
BBCH Scale								
Crop Name								
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL				
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT				
Trt-Eval Interval	2 WEEK	2 WEEK	4 WEEK	4 WEEK				
ARM Action Codes	P	P	P	P				
Number of Decimals	0	0	0	0				

Trt	Treatment	Rate	Rate				
No.	Name	Rate	Unit	10	11	12	13
12	BOUNDARY	1.21	lb ai/a		98	98	99
	TOUCHDOWN TOTAL	1	lb ai/a				99
	AMS	2	% w/v				
	WEEDONE LV4	0.5	lb ai/a				
	ACTIVATOR 90	0.25	% v/v				
	TOUCHDOWN TOTAL	1	lb ai/a				
	AMS	2	% w/v				
13	BOUNDARY	1.21	lb ai/a		98	98	99
	TOUCHDOWN TOTAL	1	lb ai/a				99
	AMS	2	% w/v				
	TOUCHDOWN TOTAL	1	lb ai/a				
	AMS	2	% w/v				
14	BOUNDARY	1.21	lb ai/a		97	98	99
	GRAMOXONE MAX	1	lb ai/a				98
	WEEDONE LV4	0.5	lb ai/a				
	ACTIVATOR 90	0.25	% v/v				
	FLEXSTAR	0.353	lb ai/a				
	FUSION	0.25	lb ai/a				
	COC	1	qt/a				
	LIQUID N	4	qt/a				
15	BOUNDARY	1.21	lb ai/a		98	98	99
	GRAMOXONE MAX	1	lb ai/a				99
	ACTIVATOR 90	0.25	% v/v				
	FLEXSTAR	0.353	lb ai/a				
	FUSION	0.25	lb ai/a				
	COC	1	qt/a				
	LIQUID N	4	qt/a				
16	BOUNDARY	1.21	lb ai/a		98	98	99
	TOUCHDOWN IQ	1	lb ai/a				99
	WEEDONE LV4	0.5	lb ai/a				
	AMS	2	% w/v				
	FLEXSTAR	0.353	lb ai/a				
	FUSION	0.25	lb ai/a				
	COC	1	qt/a				
	LIQUID N	4	qt/a				
17	BOUNDARY	1.21	lb ai/a		98	98	99
	TOUCHDOWN IQ	1	lb ai/a				99
	AMS	2	% w/v				
	FLEXSTAR	0.353	lb ai/a				
	FUSION	0.25	lb ai/a				
	COC	1	qt/a				
	LIQUID N	4	qt/a				
18	ROUNDUP WeatherMAX	22	fl oz/a		94	98	99
	AMS	3.7	% v/v				99
	ROUNDUP WeatherMAX	22	fl oz/a				
	AMS	3.7	% v/v				
	LSD (P=.05)			1.4	0.3	1.2	9.0
	Standard Deviation			1.0	0.2	0.8	6.4
	CV			0.99	0.24	0.83	7.26
	Grand Mean			97.57	98.38	98.78	88.0
	Bartlett's X2			5.792	0.095	0.084	12.559
	P(Bartlett's X2)			0.327	0.992	0.959	0.051
	Replicate F			0.251	2.990	2.615	1.789
	Replicate Prob(F)			0.8605	0.0394	0.0610	0.1610
	Treatment F			4.677	14.789	1.769	25.194
	Treatment Prob(F)			0.0001	0.0001	0.0597	0.0001

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Pest Type		W Weed	W Weed	W Weed	W Weed	
Pest Code		IPOSS	SETFA	AMBTR	IPOSS	
Pest Name		Morning glory	Giant foxtail	Giant Ragweed	Morning glory	
Crop Code			GLXMA			
BBCH Scale			BSOY			
Crop Name			Soybean			
Rating Data Type		CONTROL	INJURY	CONTROL	CONTROL	
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	
Trt-Eval Interval		4 WEEK	8 WEEK	8 WEEK	8 WEEK	
ARM Action Codes		P	P	P	P	
Number of Decimals		0	0	0	0	
Trt Treatment	Rate	Rate				
No. Name	Unit	14	15	16	17	
					18	
1 CLASSIC	2 oz/a	96	0	98	65	95
EXPRESS	0.2 oz/a					
WEEDONE LV4	1 pt/a					
COC	1 qt/a					
2 CANOPY XL	4.5 oz/a	96	0	98	64	95
EXPRESS	0.2 oz/a					
WEEDONE LV4	1 pt/a					
COC	1 qt/a					
3 CLASSIC	1.5 oz/a	97	0	99	56	97
EXPRESS	0.15 oz/a					
WEEDONE LV4	1 pt/a					
COC	1 qt/a					
4 CANOPY XL	3.5 oz/a	97	0	97	65	97
EXPRESS	0.15 oz/a					
WEEDONE LV4	1 pt/a					
COC	1 qt/a					
5 CLASSIC	1 oz/a	98	0	99	43	98
EXPRESS	0.1 oz/a					
WEEDONE LV4	1 pt/a					
COC	1 qt/a					
6 CANOPY XL	2.5 oz/a	98	0	99	50	98
EXPRESS	0.1 oz/a					
WEEDONE LV4	1 pt/a					
COC	1 qt/a					
7 GRAMOXONE MAX	0.638 lb ai/a	99	0	99	99	99
CANOPY XL	5 oz/a					
WEEDONE LV4	0.5 lb ai/a					
COC	1 qt/a					
SYNCHRONY STS	0.25 oz/a					
ASSURE II	8 fl oz/a					
COC	1 qt/a					
LIQUID N	2 qt/a					
8 GRAMOXONE MAX	0.638 lb ai/a	99	0	99	99	99
CANOPY XL	5 oz/a					
WEEDONE LV4	0.5 lb ai/a					
COC	1 qt/a					
ROUNDUP WeatherMAX	22 fl oz/a					
AMS	3.7 % v/v					
9 ROUNDUP WeatherMAX	22 fl oz/a	99	0	99	99	99
SYNCHRONY STS	0.5 oz/a					
AMS	3.7 % v/v					
ROUNDUP WeatherMAX	22 fl oz/a					
SYNCHRONY STS	0.25 oz/a					
AMS	3.7 % v/v					
10 BOUNDARY	1.21 lb ai/a	99	0	99	99	99
GRAMOXONE MAX	1 lb ai/a					
WEEDONE LV4	0.5 lb ai/a					
ACTIVATOR 90	0.25 % v/v					
TOUCHDOWN TOTAL	1 lb ai/a					
AMS	2 % w/v					
11 BOUNDARY	1.21 lb ai/a	99	0	99	99	99
GRAMOXONE MAX	1 lb ai/a					
ACTIVATOR 90	0.25 % v/v					
TOUCHDOWN TOTAL	1 lb ai/a					
AMS	2 % w/v					

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Pest Type			W Weed		W Weed		W Weed		W Weed
Pest Code			IPOSS		SETFA		AMBTR		IPOSS
Pest Name			Morning glory		Giant foxtail		Giant Ragweed		Morning glory
Crop Code					GLXMA				
BBCH Scale					BSOY				
Crop Name					Soybean				
Rating Data Type			CONTROL	INJURY	CONTROL		CONTROL		CONTROL
Rating Unit			PERCENT	PERCENT	PERCENT		PERCENT		PERCENT
Trt-Eval Interval			4 WEEK	8 WEEK	8 WEEK		8 WEEK		8 WEEK
ARM Action Codes			P	P	P		P		P
Number of Decimals			0	0	0		0		0
Trt Treatment	Rate	Rate							
No. Name	Rate	Unit	14	15	16	17	18		
12 BOUNDARY	1.21	lb ai/a		99	0	99	99		99
TOUCHDOWN TOTAL	1	lb ai/a							
AMS	2	% w/v							
WEEDONE LV4	0.5	lb ai/a							
ACTIVATOR 90	0.25	% v/v							
TOUCHDOWN TOTAL	1	lb ai/a							
AMS	2	% w/v							
13 BOUNDARY	1.21	lb ai/a	99	0	99	99		99	
TOUCHDOWN TOTAL	1	lb ai/a							
AMS	2	% w/v							
TOUCHDOWN TOTAL	1	lb ai/a							
AMS	2	% w/v							
14 BOUNDARY	1.21	lb ai/a	99	0	99	98		99	
GRAMOXONE MAX	1	lb ai/a							
WEEDONE LV4	0.5	lb ai/a							
ACTIVATOR 90	0.25	% v/v							
FLEXSTAR	0.353	lb ai/a							
FUSION	0.25	lb ai/a							
COC	1	qt/a							
LIQUID N	4	qt/a							
15 BOUNDARY	1.21	lb ai/a	99	0	99	99		99	
GRAMOXONE MAX	1	lb ai/a							
ACTIVATOR 90	0.25	% v/v							
FLEXSTAR	0.353	lb ai/a							
FUSION	0.25	lb ai/a							
COC	1	qt/a							
LIQUID N	4	qt/a							
16 BOUNDARY	1.21	lb ai/a	99	0	99	99		99	
TOUCHDOWN IQ	1	lb ai/a							
WEEDONE LV4	0.5	lb ai/a							
AMS	2	% w/v							
FLEXSTAR	0.353	lb ai/a							
FUSION	0.25	lb ai/a							
COC	1	qt/a							
LIQUID N	4	qt/a							
17 BOUNDARY	1.21	lb ai/a	99	0	99	99		99	
TOUCHDOWN IQ	1	lb ai/a							
AMS	2	% w/v							
FLEXSTAR	0.353	lb ai/a							
FUSION	0.25	lb ai/a							
COC	1	qt/a							
LIQUID N	4	qt/a							
18 ROUNDUP WeatherMAX	22	fl oz/a	99	0	99	99		99	
AMS	3.7	% v/v							
ROUNDUP WeatherMAX	22	fl oz/a							
AMS	3.7	% v/v							
LSD (P=.05)			2.5	0.0	1.2	13.0		2.9	
Standard Deviation			1.8	0.0	0.8	9.2		2.1	
CV			1.79	0.0	0.83	10.85		2.1	
Grand Mean			98.29	0.0	98.78	84.94		98.15	
Bartlett's X2			4.299	0.0	0.084	14.017		5.903	
P(Bartlett's X2)			0.507	.	0.959	0.029*		0.316	
Replicate F			5.704	0.000	2.615	1.558		3.675	
Replicate Prob(F)			0.0019	1.0000	0.0610	0.2108		0.0179	
Treatment F			1.765	0.000	1.769	20.657		2.146	
Treatment Prob(F)			0.0605	1.0000	0.0597	0.0001		0.0185	

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

SOYBEAN EARLY PREPLANT

Trial ID: S4018
Location: LEXINGTON, KY

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

General Trial Information

Study Director: CHARLES H. SLACK
Affiliation: UNIVERSITY OF KENTUCKY
Postal Code: 40546
Investigator: Charles H. Slack

Trial Location

City: LEXINGTON **Trial Status:** COMPLETE
State/Prov.: KENTUCKY
Postal Code: 40511 **Initiation Date:** 4-15-04
Directions:

Objectives:

Conclusions:

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: ASGROW 4403
BBCH Scale: BSOY **Planting Date:** 5-10-04
Planting Method: DRILLED **Rate, Unit:** 200000 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 7.5 IN
Seed Bed: ROUGH/TRASHY **Soil Temperature, Unit:** 72 F
Soil Moisture: SLIGHTLY WET **Emergence Date:** 5-16-04

Pest Description

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

Pest 2 Type: W **Code:** TAROF *Taraxacum officinale*
Common Name: Common dandelion

Pest 3 Type: W **Code:** LAMAM *Lamium amplexicaule*
Common Name: Henbit

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

Site and Design

Plot Width, Unit: 6.66 FT **Site Type:** FIELD
Plot Length, Unit: 33 FT **Tillage Type:** CONVENTIONAL-TILL
Replications: 4 **Study Design:** Split-Block

Trial Initiation Comments:

Field Prep./Maintenance:

Soil Description

% Sand: 3 **% OM:** 4 **Texture:** SILT LOAM
% Silt: 63 **pH:** 6.5 **Soil Name:** LANTON
% Clay: 34 **CEC:** 25 **Fert. Level:** EXCELLENT

Moisture Conditions

Overall Moisture Conditions: NORMAL
Closest Weather Station: SPINDLETOP

Distance: 1.5 **Unit:** MI

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Application Description

	A		B		C		D	
Application Date:	4-15-04		5-4-04		6-15-04		6-15-04	
Time of Day:	10:00		11:00		10:00		2:00	
Application Method:	SPRAY		SPRAY		SPRAY		SPRAY	
Application Timing:	4WK		1WK		MP		LP	
Application Placement:	BROFOL		BROFOL		BROFOL		BROFOL	
Air Temperature, Unit:	54	F	49	F	76	F	76	F
% Relative Humidity:	50		70		92		92	
Wind Velocity, Unit:	2	MPH	3	MPH	4	MPH	4	MPH
Dew Presence (Y/N):	N		N		N		N	
Soil Temperature, Unit:	52	F	55	F	76	F	76	F
Soil Moisture:	ADEQUATE		ADEQUATE		ADEQUATE		ADEQUATE	
% Cloud Cover:	10		10		20		20	

Crop Stage At Each Application

	A		B		C		D	
Crop 1 Code, BBCH Scale:	GLXMA	BSOY	GLXMA	BSOY	GLXMA	BSOY	GLXMA	BSOY
Stage Scale Used:	BBCH		BBCH		BBCH		BBCH	
Height, Unit:					7	IN	7	IN

Pest Stage At Each Application

	A		B		C		D	
Pest 1 Code, Disc., Scale:	STEME	W	STEME	W	STEME	W	STEME	W
Height, Unit:	2	IN	3	IN				
Pest 2 Code, Disc., Scale:	TAROF	W	TAROF	W	TAROF	W	TAROF	W
Height, Unit:	2	IN	3	IN				
Pest 3 Code, Disc., Scale:	LAMAM	W	LAMAM	W	LAMAM	W	LAMAM	W
Height, Unit:	2	IN	3	IN				
Pest 4 Code, Disc., Scale:	SETFA	W	SETFA	W	SETFA	W	SETFA	W
Height, Unit:	1	IN	2	IN	3	IN	3	IN
Pest 5 Code, Disc., Scale:	AMBTR	W	AMBTR	W	AMBTR	W	AMBTR	W
Height, Unit:	2	IN	3	IN	4	IN	4	IN
Pest 6 Code, Disc., Scale:	IPOSS	W	IPOSS	W	IPOSS	W	IPOSS	W
Height, Unit:	1	IN	1.5	IN	2	IN	2	IN

Application Equipment

	A		B		C		D	
Appl. Equipment:	ATV		ATV		BACKPACK		BACKPACK	
Operating Pressure:	30		30		30		30	
Pressure Unit:	PSI		PSI		PSI		PSI	
Nozzle Type:	FLAT FAN		FLAT FAN		FLAT FAN		FLAT FAN	
Nozzle Size:	8004 DG		8004 DG		8004 DG		8004 DG	
Nozzle Spacing, Unit:	20	IN	20	IN	20	IN	20	IN
Boom Length, Unit:	6.66	FT	6.66	FT	6.66	FT	6.66	FT
Boom Height, Unit:	19	IN	19	IN	25	IN	25	IN
Ground Speed, Unit:	4	MPH	4	MPH	3.5	MPH	3.5	MPH
Carrier:	WATER		WATER		WATER		WATER	
Spray Volume:	24		24		24		24	
Volume Unit:	GPA		GPA		GPA		GPA	
Propellant:	CO2		CO2		CO2		CO2	

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NO-TILL SOYBEAN

Trial ID: S4020
Location: LEXINGTON, KY

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

Pest Type		W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	IPOSS
Pest Name		Giant foxtail	Giant Ragweed	Morning glory
Crop Code	GLXMA			GLXMA
BBCH Scale	BSOY			BSOY
Crop Name	Soybean			Soybean
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT PERCENT
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK 4 WEEK
ARM Action Codes	P	P	P	P P
Number of Decimals	0	0	0	0 0

Trt Treatment	Rate	Rate Unit	1	2	3	4	5
1 ROUNDUP WeatherMAX	1 lb ai/a		0	99	99	99	0
AMS	3.7 % v/v						
ROUNDUP WeatherMAX	1 lb ai/a						
AMS	3.7 % v/v						
2 ROUNDUP WeatherMAX	1 lb ai/a		0	99	99	99	0
ACTIVATOR 90	0.25 % v/v						
AMS	3.7 % v/v						
ROUNDUP WeatherMAX	1 lb ai/a						
AMS	3.7 % v/v						
3 VALOR SX	0.047 lb ai/a		0	99	99	99	0
ROUNDUP WeatherMAX	1 lb ai/a						
ACTIVATOR 90	0.25 % v/v						
AMS	3.7 % v/v						
ROUNDUP WeatherMAX	1 lb ai/a						
AMS	3.7 % v/v						
4 VALOR SX	0.063 lb ai/a		0	99	99	99	0
ROUNDUP WeatherMAX	1 lb ai/a						
ACTIVATOR 90	0.25 % v/v						
AMS	3.7 % v/v						
ROUNDUP WeatherMAX	1 lb ai/a						
AMS	3.7 % v/v						
5 VALOR SX	0.078 lb ai/a		0	99	99	99	0
ROUNDUP WeatherMAX	1 lb ai/a						
ACTIVATOR 90	0.25 % v/v						
AMS	3.7 % v/v						
ROUNDUP WeatherMAX	1 lb ai/a						
AMS	3.7 % v/v						
6 ROUNDUP WeatherMAX	22 fl oz/a		0	99	99	99	0
CANOPY XL	3.5 oz/a						
AMS	3.7 % v/v						
ROUNDUP WeatherMAX	22 fl oz/a						
AMS	3.7 % v/v						
7 ROUNDUP WeatherMAX	22 fl oz/a		0	99	99	99	0
AMS	3.7 % v/v						
ROUNDUP WeatherMAX	22 fl oz/a						
SYNCHRONY STS	0.25 oz/a						
AMS	3.7 % v/v						
8 GRAMOXONE MAX	1 lb ai/a		0	99	99	99	0
BOUNDARY	1.22 lb ai/a						
ACTIVATOR 90	0.25 % v/v						
TOUCHDOWN TOTAL	1 lb ai/a						
AMS	2 % w/v						
9 GRAMOXONE MAX	1 lb ai/a		0	99	99	99	0
BOUNDARY	1.22 lb ai/a						
ACTIVATOR 90	0.25 % v/v						
FLEXSTAR	0.353 lb ai/a						
FUSION	0.25 lb ai/a						
COC	1 qt/a						
LIQUID N	4 qt/a						

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Pest Type			W Weed	W Weed	W Weed		
Pest Code			SETFA	AMBTR	IPOSS		
Pest Name			Giant foxtail	Giant Ragweed	Morning glory		
Crop Code	GLXMA					GLXMA	
BBCH Scale	BSOY					BSOY	
Crop Name	Soybean					Soybean	
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY		
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
Trt-Eval Interval	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 Treatment	Rate	Rate					
No. Name	Rate	Unit	1	2	3	4	5
10 TOUCHDOWN TOTAL	1	lb ai/a	0	99	99	99	0
BOUNDARY	1.22	lb ai/a					
AMS	2	% w/v					
TOUCHDOWN TOTAL	1	lb ai/a					
AMS	2	% w/v					
11 TOUCHDOWN TOTAL	1	lb ai/a	0	99	99	99	0
BOUNDARY	1.22	lb ai/a					
AMS	2	% w/v					
FLEXSTAR	0.353	lb ai/a					
FUSION	0.25	lb ai/a					
COC	1	qt/a					
LIQUID N	4	qt/a					
12 AIM	0.008	lb ai/a	0	99	99	99	0
ROUNDUP WeatherMAX	22	fl oz/a					
AMS	3.7	% v/v					
ROUNDUP WeatherMAX	22	fl oz/a					
AMS	3.7	% v/v					
13 FIRSTRATE	0.016	lb ai/a	0	99	99	99	0
GF-1279	24	fl oz/a					
AMS	1.5	% v/v					
GF-1279	24	fl oz/a					
AMS	1.5	% v/v					
14 ROUNDUP ORIGINAL MAX	22	fl oz/a	0	99	99	99	0
ACTIVATOR 90	0.25	% v/v					
AMS	3.7	% v/v					
ROUNDUP ORIGINAL MAX	22	fl oz/a					
ACTIVATOR 90	0.25	% v/v					
AMS	3.7	% v/v					
15 TOUCHDOWN TOTAL	24	fl oz/a	0	99	99	99	0
AMS	2	% w/v					
TOUCHDOWN TOTAL	24	fl oz/a					
AMS	2	% w/v					
16 TOUCHDOWN HI-TECH	1	lb ai/a	0	99	99	99	0
ACTIVATOR 90	0.25	% v/v					
AMS	2	% w/v					
TOUCHDOWN HI-TECH	1	lb ai/a					
ACTIVATOR 90	0.25	% v/v					
AMS	2	% w/v					
17 GRAMOXONE MAX	1	lb ai/a	0	99	99	99	0
ACTIVATOR 90	0.25	% v/v					
TOUCHDOWN TOTAL	24	fl oz/a					
AMS	2	% w/v					
18 VALOR SX	0.031	lb ai/a	0	99	99	99	0
GRAMOXONE MAX	1	lb ai/a					
ACTIVATOR 90	0.25	% v/v					
TOUCHDOWN HI-TECH	1	lb ai/a					
ACTIVATOR 90	0.25	% v/v					
AMS	2	% w/v					
LSD (P=.05)			0.0	0.0	0.0	0.0	0.0
Standard Deviation			0.0	0.0	0.0	0.0	0.0
CV			0.0	0.0	0.0	0.0	0.0
Grand Mean			0.0	99.0	99.0	99.0	0.0
Bartlett's X2			0.0	0.0	0.0	0.0	0.0
P(Bartlett's X2)			.	.	.	.	.
Replicate F			0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F			0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000

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Pest Type		W Weed	W Weed	W Weed	
Pest Code		SETFA	AMBTR	IPOSS	
Pest Name		Giant foxtail	Giant Ragweed	Morning glory	
Crop Code					GLXMA
BBCH Scale					BSOY
Crop Name					Soybean
Rating Data Type		CONTROL	CONTROL	CONTROL	INJURY
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval		4 WEEK	4 WEEK	4 WEEK	8 WEEK
ARM Action Codes		P	P	P	P
Number of Decimals		0	0	0	0
Trt Treatment	Rate	Rate			
No. Name	Rate Unit	6	7	8	9
1 ROUNDUP WeatherMAX	1 lb ai/a	99	99	99	0
AMS	3.7 % v/v				
ROUNDUP WeatherMAX	1 lb ai/a				
AMS	3.7 % v/v				
2 ROUNDUP WeatherMAX	1 lb ai/a	99	99	99	0
ACTIVATOR 90	0.25 % v/v				
AMS	3.7 % v/v				
ROUNDUP WeatherMAX	1 lb ai/a				
AMS	3.7 % v/v				
3 VALOR SX	0.047 lb ai/a	99	99	99	0
ROUNDUP WeatherMAX	1 lb ai/a				
ACTIVATOR 90	0.25 % v/v				
AMS	3.7 % v/v				
ROUNDUP WeatherMAX	1 lb ai/a				
AMS	3.7 % v/v				
4 VALOR SX	0.063 lb ai/a	99	99	99	0
ROUNDUP WeatherMAX	1 lb ai/a				
ACTIVATOR 90	0.25 % v/v				
AMS	3.7 % v/v				
ROUNDUP WeatherMAX	1 lb ai/a				
AMS	3.7 % v/v				
5 VALOR SX	0.078 lb ai/a	99	99	99	0
ROUNDUP WeatherMAX	1 lb ai/a				
ACTIVATOR 90	0.25 % v/v				
AMS	3.7 % v/v				
ROUNDUP WeatherMAX	1 lb ai/a				
AMS	3.7 % v/v				
6 ROUNDUP WeatherMAX	22 fl oz/a	99	99	99	0
CANOPY XL	3.5 oz/a				
AMS	3.7 % v/v				
ROUNDUP WeatherMAX	22 fl oz/a				
AMS	3.7 % v/v				
7 ROUNDUP WeatherMAX	22 fl oz/a	99	99	99	0
AMS	3.7 % v/v				
ROUNDUP WeatherMAX	22 fl oz/a				
SYNCHRONY STS	0.25 oz/a				
AMS	3.7 % v/v				
8 GRAMOXONE MAX	1 lb ai/a	99	99	99	0
BOUNDARY	1.22 lb ai/a				
ACTIVATOR 90	0.25 % v/v				
TOUCHDOWN TOTAL	1 lb ai/a				
AMS	2 % w/v				
9 GRAMOXONE MAX	1 lb ai/a	99	99	99	0
BOUNDARY	1.22 lb ai/a				
ACTIVATOR 90	0.25 % v/v				
FLEXSTAR	0.353 lb ai/a				
FUSION	0.25 lb ai/a				
COC	1 qt/a				
LIQUID N	4 qt/a				
10 TOUCHDOWN TOTAL	1 lb ai/a	99	99	99	0
BOUNDARY	1.22 lb ai/a				
AMS	2 % w/v				
TOUCHDOWN TOTAL	1 lb ai/a				
AMS	2 % w/v				

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Pest Type		W Weed	W Weed	W Weed		
Pest Code		SETFA	AMBTR	IPOSS		
Pest Name		Giant foxtail	Giant Ragweed	Morning glory		
Crop Code					GLXMA	
BBCH Scale					BSOY	
Crop Name					Soybean	
Rating Data Type		CONTROL	CONTROL	CONTROL	INJURY	
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	
Trt-Eval Interval		4 WEEK	4 WEEK	4 WEEK	8 WEEK	
ARM Action Codes		P	P	P	P	
Number of Decimals		0	0	0	0	
Trt Treatment	Rate	Rate				
No. Name	Rate Unit	6	7	8	9	
11 TOUCHDOWN TOTAL	1 lb ai/a		99	99	99	0
BOUNDARY	1.22 lb ai/a					
AMS	2 % w/v					
FLEXSTAR	0.353 lb ai/a					
FUSION	0.25 lb ai/a					
COC	1 qt/a					
LIQUID N	4 qt/a					
12 AIM	0.008 lb ai/a		99	99	99	0
ROUNDUP WeatherMAX	22 fl oz/a					
AMS	3.7 % v/v					
ROUNDUP WeatherMAX	22 fl oz/a					
AMS	3.7 % v/v					
13 FIRSTRATE	0.016 lb ai/a		99	99	99	0
GF-1279	24 fl oz/a					
AMS	1.5 % v/v					
GF-1279	24 fl oz/a					
AMS	1.5 % v/v					
14 ROUNDUP ORIGINAL MAX	22 fl oz/a		99	99	99	0
ACTIVATOR 90	0.25 % v/v					
AMS	3.7 % v/v					
ROUNDUP ORIGINAL MAX	22 fl oz/a					
ACTIVATOR 90	0.25 % v/v					
AMS	3.7 % v/v					
15 TOUCHDOWN TOTAL	24 fl oz/a		99	99	99	0
AMS	2 % w/v					
TOUCHDOWN TOTAL	24 fl oz/a					
AMS	2 % w/v					
16 TOUCHDOWN HI-TECH	1 lb ai/a		99	99	99	0
ACTIVATOR 90	0.25 % v/v					
AMS	2 % w/v					
TOUCHDOWN HI-TECH	1 lb ai/a					
ACTIVATOR 90	0.25 % v/v					
AMS	2 % w/v					
17 GRAMOXONE MAX	1 lb ai/a		99	99	99	0
ACTIVATOR 90	0.25 % v/v					
TOUCHDOWN TOTAL	24 fl oz/a					
AMS	2 % w/v					
18 VALOR SX	0.031 lb ai/a		99	99	99	0
GRAMOXONE MAX	1 lb ai/a					
ACTIVATOR 90	0.25 % v/v					
TOUCHDOWN HI-TECH	1 lb ai/a					
ACTIVATOR 90	0.25 % v/v					
AMS	2 % w/v					
LSD (P=.05)		0.0	0.0	0.0	0.0	
Standard Deviation		0.0	0.0	0.0	0.0	
CV		0.0	0.0	0.0	0.0	
Grand Mean		99.0	99.0	99.0	0.0	
Bartlett's X2		0.0	0.0	0.0	0.0	
P(Bartlett's X2)		.	.	.	.
Replicate F		0.000	0.000	0.000	0.000	
Replicate Prob(F)		1.0000	1.0000	1.0000	1.0000	
Treatment F		0.000	0.000	0.000	0.000	
Treatment Prob(F)		1.0000	1.0000	1.0000	1.0000	

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 Weed Science Field Research

Pest Type		W Weed	W Weed	W Weed	
Pest Code		SETFA	AMBTR	IPOSS	
Pest Name		Giant foxtail	Giant Ragweed	Morning glory	
Crop Code					GLXMA
BBCH Scale					BSOY
Crop Name					Soybean
Rating Data Type		CONTROL	CONTROL	CONTROL	YIELD
Rating Unit		PERCENT	PERCENT	PERCENT	BU/A
Trt-Eval Interval		8 WEEK	8 WEEK	8 WEEK	
ARM Action Codes		P	P	P	TY1
Number of Decimals		0	0	0	1
Trt Treatment	Rate	Rate			
No. Name	Rate Unit	10	11	12	16
1 ROUNDUP WeatherMAX	1 lb ai/a	99	99	99	69.4
AMS	3.7 % v/v				
ROUNDUP WeatherMAX	1 lb ai/a				
AMS	3.7 % v/v				
2 ROUNDUP WeatherMAX	1 lb ai/a	99	99	99	75.0
ACTIVATOR 90	0.25 % v/v				
AMS	3.7 % v/v				
ROUNDUP WeatherMAX	1 lb ai/a				
AMS	3.7 % v/v				
3 VALOR SX	0.047 lb ai/a	99	99	99	74.2
ROUNDUP WeatherMAX	1 lb ai/a				
ACTIVATOR 90	0.25 % v/v				
AMS	3.7 % v/v				
ROUNDUP WeatherMAX	1 lb ai/a				
AMS	3.7 % v/v				
4 VALOR SX	0.063 lb ai/a	99	99	99	65.7
ROUNDUP WeatherMAX	1 lb ai/a				
ACTIVATOR 90	0.25 % v/v				
AMS	3.7 % v/v				
ROUNDUP WeatherMAX	1 lb ai/a				
AMS	3.7 % v/v				
5 VALOR SX	0.078 lb ai/a	99	99	99	77.7
ROUNDUP WeatherMAX	1 lb ai/a				
ACTIVATOR 90	0.25 % v/v				
AMS	3.7 % v/v				
ROUNDUP WeatherMAX	1 lb ai/a				
AMS	3.7 % v/v				
6 ROUNDUP WeatherMAX	22 fl oz/a	99	99	99	69.1
CANOPY XL	3.5 oz/a				
AMS	3.7 % v/v				
ROUNDUP WeatherMAX	22 fl oz/a				
AMS	3.7 % v/v				
7 ROUNDUP WeatherMAX	22 fl oz/a	99	99	99	73.4
AMS	3.7 % v/v				
ROUNDUP WeatherMAX	22 fl oz/a				
SYNCHRONY STS	0.25 oz/a				
AMS	3.7 % v/v				
8 GRAMOXONE MAX	1 lb ai/a	99	99	99	73.8
BOUNDARY	1.22 lb ai/a				
ACTIVATOR 90	0.25 % v/v				
TOUCHDOWN TOTAL	1 lb ai/a				
AMS	2 % w/v				
9 GRAMOXONE MAX	1 lb ai/a	99	99	99	72.0
BOUNDARY	1.22 lb ai/a				
ACTIVATOR 90	0.25 % v/v				
FLEXSTAR	0.353 lb ai/a				
FUSION	0.25 lb ai/a				
COC	1 qt/a				
LIQUID N	4 qt/a				
10 TOUCHDOWN TOTAL	1 lb ai/a	99	99	99	70.2
BOUNDARY	1.22 lb ai/a				
AMS	2 % w/v				
TOUCHDOWN TOTAL	1 lb ai/a				
AMS	2 % w/v				

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Pest Type		W Weed	W Weed	W Weed	
Pest Code		SETFA	AMBTR	IPOSS	
Pest Name		Giant foxtail	Giant Ragweed	Morning glory	
Crop Code					GLXMA
BBCH Scale					BSOY
Crop Name					Soybean
Rating Data Type		CONTROL	CONTROL	CONTROL	YIELD
Rating Unit		PERCENT	PERCENT	PERCENT	BU/A
Trt-Eval Interval		8 WEEK	8 WEEK	8 WEEK	
ARM Action Codes		P	P	P	TY1
Number of Decimals		0	0	0	1
Trt Treatment	Rate	Rate			
No. Name	Rate Unit	10	11	12	16
11 TOUCHDOWN TOTAL	1 lb ai/a	99	99	99	74.5
BOUNDARY	1.22 lb ai/a				
AMS	2 % w/v				
FLEXSTAR	0.353 lb ai/a				
FUSION	0.25 lb ai/a				
COC	1 qt/a				
LIQUID N	4 qt/a				
12 AIM	0.008 lb ai/a	99	99	99	75.1
ROUNDUP WeatherMAX	22 fl oz/a				
AMS	3.7 % v/v				
ROUNDUP WeatherMAX	22 fl oz/a				
AMS	3.7 % v/v				
13 FIRSTRATE	0.016 lb ai/a	99	99	99	72.7
GF-1279	24 fl oz/a				
AMS	1.5 % v/v				
GF-1279	24 fl oz/a				
AMS	1.5 % v/v				
14 ROUNDUP ORIGINAL MAX	22 fl oz/a	99	99	99	77.0
ACTIVATOR 90	0.25 % v/v				
AMS	3.7 % v/v				
ROUNDUP ORIGINAL MAX	22 fl oz/a				
ACTIVATOR 90	0.25 % v/v				
AMS	3.7 % v/v				
15 TOUCHDOWN TOTAL	24 fl oz/a	99	99	99	74.5
AMS	2 % w/v				
TOUCHDOWN TOTAL	24 fl oz/a				
AMS	2 % w/v				
16 TOUCHDOWN HI-TECH	1 lb ai/a	99	99	99	72.5
ACTIVATOR 90	0.25 % v/v				
AMS	2 % w/v				
TOUCHDOWN HI-TECH	1 lb ai/a				
ACTIVATOR 90	0.25 % v/v				
AMS	2 % w/v				
17 GRAMOXONE MAX	1 lb ai/a	99	99	99	76.8
ACTIVATOR 90	0.25 % v/v				
TOUCHDOWN TOTAL	24 fl oz/a				
AMS	2 % w/v				
18 VALOR SX	0.031 lb ai/a	99	99	99	75.3
GRAMOXONE MAX	1 lb ai/a				
ACTIVATOR 90	0.25 % v/v				
TOUCHDOWN HI-TECH	1 lb ai/a				
ACTIVATOR 90	0.25 % v/v				
AMS	2 % w/v				
LSD (P=.05)		0.0	0.0	0.0	7.11
Standard Deviation		0.0	0.0	0.0	5.03
CV		0.0	0.0	0.0	6.86
Grand Mean		99.0	99.0	99.0	73.27
Bartlett's X2		0.0	0.0	0.0	14.465
P(Bartlett's X2)		.	.	.	0.634
Replicate F		0.000	0.000	0.000	26.696
Replicate Prob(F)		1.0000	1.0000	1.0000	0.0001
Treatment F		0.000	0.000	0.000	1.505
Treatment Prob(F)		1.0000	1.0000	1.0000	0.1309

Column 13: TY1 = 14.82004*[14]*(100-[15])/87

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Weed Science Field Research

NO-TILL SOYBEAN

Trial ID: S4020
Location: LEXINGTON, KY

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

General Trial Information

Study Director: CHARLES H. SLACK
Affiliation: UNIVERSITY OF KENTUCKY
Postal Code: 40546
Investigator: Charles H. Slack

Trial Location

City: LEXINGTON **Trial Status:** COMPLETE
State/Prov.: KENTUCKY
Postal Code: 40511 **Initiation Date:** 5-7-04
Directions:

Objectives:**Conclusions:****Crop Description**

Crop 1: GLXMA Glycine max Soybean
Variety: ASGROW 4403
BBCH Scale: BSOY **Planting Date:** 5-10-04
Planting Method: DRILLED **Rate, Unit:** 200000 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 7.5 IN
Seed Bed: ROUGH/TRASHY **Soil Temperature, Unit:** 65 F
Soil Moisture: SLIGHTLY WET **Emergence Date:** 5-16-04
Harvest Date: 10-28-04 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 48 IN **Harvested Length, Unit:** 27 FT

Pest Description

Pest 1 Type: W **Code:** SETFA **Setaria faberi**
Common Name: Giant Foxtail
Pest 2 Type: W **Code:** AMBTR **Ambrosia trifida**
Common Name: Giant Ragweed
Pest 3 Type: W **Code:** IPOSS **Ipomoea sp.**
Common Name: Morning glory

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD
Plot Length, Unit: 33 FT **Tillage Type:** NO-TILL
Replications: 4 **Study Design:** Randomized Complete Block

Trial Initiation Comments:**Field Prep./Maintenance:****Soil Description**

% Sand: 3 **% OM:** 4 **Texture:** SILT LOAM
% Silt: 63 **pH:** 6.5 **Soil Name:** LANTON
% Clay: 34 **CEC:** 25 **Fert. Level:** EXCELLENT

Moisture Conditions

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

Application Description

	A	B	C
Application Date:	5-7-04	6-15-04	6-21-04
Time of Day:	10:00	11:00	1:00
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	MP	LP
Application Placement:	BROFOL	BROFOL	BROFOL
Air Temperature, Unit:	72 F	76 F	76 F
% Relative Humidity:	73	92	92
Wind Velocity, Unit:	3 MPH	3 MPH	3 MPH
Dew Presence (Y/N):	N	N	N
Soil Temperature, Unit:	63 F	76 F	76 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	10	20	20

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:	BBCH	BBCH	BBCH
Height, Unit:		7 IN	7 IN

Pest Stage At Each Application

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

Application Equipment

	A	B	C
Appl. Equipment:	ATV	BACKPACK	BACKPACK
Operating Pressure:	30	30	30
Pressure Unit:	PSI	PSI	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:	19 IN	25 IN	25 IN
Ground Speed, Unit:	4 MPH	3.5 MPH	3.5 MPH
Carrier:	WATER	WATER	WATER
Spray Volume:	24	24	24
Volume Unit:	GPA	GPA	GPA
Propellant:	CO2	CO2	CO2

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SOYBEAN HORSEWEED

Trial ID: S4030
Location: LEXINGTON, KY

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

Pest Type		W Weed	W Weed
Pest Code		ERICA	CHEAL
Pest Name		Horseweed, Canada Lambsquarters, commo	
Crop Code	GLXMA		
BBCH Scale	BSOY		
Crop Name	Soybean		
Crop Variety	Soybean		
Rating Data Type	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Crop Stage	V2		
Trt-Eval Interval	PRE POST	PRE POST	PRE POST
ARM Action Codes			
Number of Decimals			

Trt No.	Treatment Name	Rate	Unit	1	2	3
1	ROUNDUP WeatherMAX	1.5	lb ae/a	2	88	73
	WEEDONE LV4	1	pt/a			
	AMS	3.7	% v/v			
	INTRRO	1	qt/a			
	ROUNDUP WeatherMAX	0.75	lb ae/a			
	AMS	3.7	% v/v			
2	ROUNDUP WeatherMAX	1.5	lb ae/a	3	92	78
	WEEDONE LV4	1	pt/a			
	AMS	3.7	% v/v			
	INTRRO	1.5	qt/a			
	ROUNDUP WeatherMAX	0.75	lb ae/a			
	AMS	3.7	% v/v			
3	ROUNDUP WeatherMAX	1.5	lb ae/a	3	91	92
	WEEDONE LV4	1	pt/a			
	AMS	3.7	% v/v			
	PROWL H20	1	qt/a			
	ROUNDUP WeatherMAX	0.75	lb ae/a			
	AMS	3.7	% v/v			
4	ROUNDUP WeatherMAX	1.5	lb ae/a	3	95	93
	WEEDONE LV4	1	pt/a			
	AMS	3.7	% v/v			
	VALOR SX	2	oz/a			
	ROUNDUP WeatherMAX	0.75	lb ae/a			
	AMS	3.7	% v/v			
5	ROUNDUP WeatherMAX	1.5	lb ae/a	3	90	95
	WEEDONE LV4	1	pt/a			
	AMS	3.7	% v/v			
	AUTHORITY	0.25	lb ai/a			
	ROUNDUP WeatherMAX	0.75	lb ae/a			
	AMS	3.7	% v/v			
6	ROUNDUP WeatherMAX	1.5	lb ae/a	2	95	90
	WEEDONE LV4	1	pt/a			
	AMS	3.7	% v/v			
	AMPLIFY	0.6	oz/a			
	ROUNDUP WeatherMAX	0.75	lb ae/a			
	AMS	3.7	% v/v			
7	ROUNDUP WeatherMAX	1.5	lb ae/a	5	98	95
	WEEDONE LV4	1	pt/a			
	AMS	3.7	% v/v			
	CANOPY XL	2.5	oz/a			
	ROUNDUP WeatherMAX	0.75	lb ae/a			
	AMS	3.7	% v/v			
8	ROUNDUP WeatherMAX	1.5	lb ae/a	3	96	95
	WEEDONE LV4	1	pt/a			
	AMS	3.7	% v/v			
	EXTREME	3	pt/a			
	ROUNDUP WeatherMAX	0.75	lb ae/a			
	AMS	3.7	% v/v			

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Pest Type		W Weed	W Weed
Pest Code		ERICA	CHEAL
Pest Name		Horseweed, Canada Lambsquarters, commo	
Crop Code	GLXMA		
BBCH Scale	BSOY		
Crop Name	Soybean		
Crop Variety	Soybean		
Rating Data Type	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Crop Stage	V2		
Trt-Eval Interval	PRE POST	PRE POST	PRE POST
ARM Action Codes			
Number of Decimals			

Trt No.	Treatment Name	Rate	Unit	1	2	3	
9	ROUNDUP WeatherMAX	1.5	lb ae/a	0	95		95
	WEEDONE LV4	0.5	lb ai/a				
	AMS	3.7	% v/v				
	BOUNDARY	1.63	lb ai/a				
	ROUNDUP WeatherMAX	0.75	lb ae/a				
	AMS	3.7	% v/v				
10	ROUNDUP WeatherMAX	1.5	lb ae/a	2	95		95
	WEEDONE LV4	0.5	lb ai/a				
	AMS	3.7	% v/v				
	DOMAIN	0.45	lb ai/a				
	ROUNDUP WeatherMAX	0.75	lb ae/a				
	AMS	3.7	% v/v				
11	ROUNDUP WeatherMAX	1.5	lb ae/a	5	95		95
	WEEDONE LV4	0.5	lb ai/a				
	AMS	3.7	% v/v				
	FIRSTRATE	0.016	lb ai/a				
	AUTHORITY	0.125	lb ai/a				
	ROUNDUP WeatherMAX	0.75	lb ae/a				
	AMS	3.7	% v/v				
12	ROUNDUP WeatherMAX	1.5	lb ae/a	2	93		75
	WEEDONE LV4	0.5	lb ai/a				
	AMS	3.7	% v/v				
	CHECK						
	ROUNDUP WeatherMAX	0.75	lb ae/a				
	AMS	3.7	% v/v				
13	ROUNDUP WeatherMAX	1.5	lb ae/a	2	89		78
	AMS	3.7	% v/v				
	INTRRO	1	qt/a				
	ROUNDUP WeatherMAX	0.75	lb ae/a				
	AMS	3.7	% v/v				
14	ROUNDUP WeatherMAX	1.5	lb ae/a	2	89		80
	AMS	3.7	% v/v				
	INTRRO	1.5	qt/a				
	ROUNDUP WeatherMAX	0.75	lb ae/a				
	AMS	3.7	% v/v				
15	ROUNDUP WeatherMAX	1.5	lb ae/a	2	77		88
	AMS	3.7	% v/v				
	PROWL H20	1	qt/a				
	ROUNDUP WeatherMAX	0.75	lb ae/a				
	AMS	3.7	% v/v				
16	ROUNDUP WeatherMAX	1.5	lb ae/a	8	92		93
	AMS	3.7	% v/v				
	VALOR SX	2	oz/a				
	ROUNDUP WeatherMAX	0.75	lb ae/a				
	AMS	3.7	% v/v				
17	ROUNDUP WeatherMAX	1.5	lb ae/a	6	85		95
	AMS	3.7	% v/v				
	AUTHORITY	0.25	lb ai/a				
	ROUNDUP WeatherMAX	0.75	lb ae/a				
	AMS	3.7	% v/v				
18	ROUNDUP WeatherMAX	1.5	lb ae/a	3	95		83
	AMS	3.7	% v/v				
	AMPLIFY	0.6	oz/a				
	ROUNDUP WeatherMAX	0.75	lb ae/a				
	AMS	3.7	% v/v				

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Pest Type W Weed W Weed
 Pest Code ERICA CHEAL
 Pest Name Horseweed, Canada Lambsquarters, commo
 Crop Code GLXMA
 BBCH Scale BSOY
 Crop Name Soybean
 Crop Variety Soybean
 Rating Data Type INJURY CONTROL CONTROL
 Rating Unit PERCENT PERCENT PERCENT
 Crop Stage V2
 Trt-Eval Interval PRE POST PRE POST PRE POST
 ARM Action Codes
 Number of Decimals

Trt No.	Treatment Name	Rate	Rate Unit	1	2	3
19	ROUNDUP WeatherMAX	1.5	lb ae/a	2	93	93
	AMS	3.7	% v/v			
	CANOPY XL	2.5	oz/a			
	ROUNDUP WeatherMAX	0.75	lb ae/a			
	AMS	3.7	% v/v			
20	ROUNDUP WeatherMAX	1.5	lb ae/a	2	96	95
	AMS	3.7	% v/v			
	EXTREME	3	pt/a			
	ROUNDUP WeatherMAX	0.75	lb ae/a			
	AMS	3.7	% v/v			
21	ROUNDUP WeatherMAX	1.5	lb ae/a	7	96	96
	AMS	3.7	% v/v			
	BOUNDARY	1.63	lb ai/a			
	ROUNDUP WeatherMAX	0.75	lb ae/a			
	AMS	3.7	% v/v			
22	ROUNDUP WeatherMAX	1.5	lb ae/a	0	96	95
	AMS	3.7	% v/v			
	DOMAIN	0.45	lb ai/a			
	ROUNDUP WeatherMAX	0.75	lb ae/a			
	AMS	3.7	% v/v			
23	ROUNDUP WeatherMAX	1.5	lb ae/a	3	96	93
	AMS	3.7	% v/v			
	FIRSTRATE	0.016	lb ai/a			
	AUTHORITY	0.125	lb ai/a			
	ROUNDUP WeatherMAX	0.75	lb ae/a			
	AMS	3.7	% v/v			
24	ROUNDUP WeatherMAX	1.5	lb ae/a	0	80	67
	AMS	3.7	% v/v			
	CHECK					
	ROUNDUP WeatherMAX	0.75	lb ae/a			
	AMS	3.7	% v/v			
	LSD (P=.05)			4.9	8.8	9.8
	Standard Deviation			3.0	5.3	5.9
	CV			102.67	5.8	6.7
	Grand Mean			2.9	91.96	88.67
	Bartlett's X2			6.025	30.424	25.697
	P(Bartlett's X2)			0.996	0.023*	0.028*
	Replicate F			2.934	0.929	1.475
	Replicate Prob(F)			0.0632	0.4024	0.2393
	Treatment F			1.535	2.929	6.490
	Treatment Prob(F)			0.1069	0.0009	0.0001

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Pest Type	W Weed	W Weed	W Weed
Pest Code	POLPY	SETFA	ERICA
Pest Name	Pennsylvania smartwe Giant foxtail Horseweed, Canada		
Crop Code			
BBCH Scale			
Crop Name			
Crop Variety			
Rating Data Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Crop Stage			
Trt-Eval Interval	PRE POST	PRE POST	2WK POST
ARM Action Codes			
Number of Decimals			

Trt No.	Treatment Name	Rate	Unit	4	5	6
1	ROUNDUP WeatherMAX	1.5	lb ae/a		65	70
	WEEDONE LV4		1 pt/a			99
	AMS	3.7	% v/v			
	INTRRO		1 qt/a			
	ROUNDUP WeatherMAX	0.75	lb ae/a			
	AMS	3.7	% v/v			
2	ROUNDUP WeatherMAX	1.5	lb ae/a		60	83
	WEEDONE LV4		1 pt/a			99
	AMS	3.7	% v/v			
	INTRRO		1.5 qt/a			
	ROUNDUP WeatherMAX	0.75	lb ae/a			
	AMS	3.7	% v/v			
3	ROUNDUP WeatherMAX	1.5	lb ae/a		73	87
	WEEDONE LV4		1 pt/a			99
	AMS	3.7	% v/v			
	PROWL H20		1 qt/a			
	ROUNDUP WeatherMAX	0.75	lb ae/a			
	AMS	3.7	% v/v			
4	ROUNDUP WeatherMAX	1.5	lb ae/a		87	83
	WEEDONE LV4		1 pt/a			99
	AMS	3.7	% v/v			
	VALOR SX		2 oz/a			
	ROUNDUP WeatherMAX	0.75	lb ae/a			
	AMS	3.7	% v/v			
5	ROUNDUP WeatherMAX	1.5	lb ae/a		95	83
	WEEDONE LV4		1 pt/a			99
	AMS	3.7	% v/v			
	AUTHORITY	0.25	lb ai/a			
	ROUNDUP WeatherMAX	0.75	lb ae/a			
	AMS	3.7	% v/v			
6	ROUNDUP WeatherMAX	1.5	lb ae/a		93	60
	WEEDONE LV4		1 pt/a			99
	AMS	3.7	% v/v			
	AMPLIFY		0.6 oz/a			
	ROUNDUP WeatherMAX	0.75	lb ae/a			
	AMS	3.7	% v/v			
7	ROUNDUP WeatherMAX	1.5	lb ae/a		95	70
	WEEDONE LV4		1 pt/a			99
	AMS	3.7	% v/v			
	CANOPY XL		2.5 oz/a			
	ROUNDUP WeatherMAX	0.75	lb ae/a			
	AMS	3.7	% v/v			
8	ROUNDUP WeatherMAX	1.5	lb ae/a		93	92
	WEEDONE LV4		1 pt/a			99
	AMS	3.7	% v/v			
	EXTREME		3 pt/a			
	ROUNDUP WeatherMAX	0.75	lb ae/a			
	AMS	3.7	% v/v			
9	ROUNDUP WeatherMAX	1.5	lb ae/a		92	92
	WEEDONE LV4		0.5 lb ai/a			99
	AMS	3.7	% v/v			
	BOUNDARY	1.63	lb ai/a			
	ROUNDUP WeatherMAX	0.75	lb ae/a			
	AMS	3.7	% v/v			

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Pest Type	W Weed	W Weed	W Weed
Pest Code	POLPY	SETFA	ERICA
Pest Name	Pennsylvania smartwe Giant foxtail Horseweed, Canada		
Crop Code			
BBCH Scale			
Crop Name			
Crop Variety			
Rating Data Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Crop Stage			
Trt-Eval Interval	PRE POST	PRE POST	2WK POST
ARM Action Codes			
Number of Decimals			

Trt No.	Treatment Name	Rate	Unit	4	5	6	
10	ROUNDUP WeatherMAX	1.5	lb ae/a		93	90	99
	WEEDONE LV4	0.5	lb ai/a				
	AMS	3.7	% v/v				
	DOMAIN	0.45	lb ai/a				
	ROUNDUP WeatherMAX	0.75	lb ae/a				
	AMS	3.7	% v/v				
11	ROUNDUP WeatherMAX	1.5	lb ae/a	95		80	99
	WEEDONE LV4	0.5	lb ai/a				
	AMS	3.7	% v/v				
	FIRSTRATE	0.016	lb ai/a				
	AUTHORITY	0.125	lb ai/a				
	ROUNDUP WeatherMAX	0.75	lb ae/a				
	AMS	3.7	% v/v				
12	ROUNDUP WeatherMAX	1.5	lb ae/a		0	0	99
	WEEDONE LV4	0.5	lb ai/a				
	AMS	3.7	% v/v				
	CHECK						
	ROUNDUP WeatherMAX	0.75	lb ae/a				
	AMS	3.7	% v/v				
13	ROUNDUP WeatherMAX	1.5	lb ae/a	53		85	99
	AMS	3.7	% v/v				
	INTRRO	1	qt/a				
	ROUNDUP WeatherMAX	0.75	lb ae/a				
	AMS	3.7	% v/v				
14	ROUNDUP WeatherMAX	1.5	lb ae/a	77		88	99
	AMS	3.7	% v/v				
	INTRRO	1.5	qt/a				
	ROUNDUP WeatherMAX	0.75	lb ae/a				
	AMS	3.7	% v/v				
15	ROUNDUP WeatherMAX	1.5	lb ae/a	77		68	99
	AMS	3.7	% v/v				
	PROWL H20	1	qt/a				
	ROUNDUP WeatherMAX	0.75	lb ae/a				
	AMS	3.7	% v/v				
16	ROUNDUP WeatherMAX	1.5	lb ae/a	93		83	99
	AMS	3.7	% v/v				
	VALOR SX	2	oz/a				
	ROUNDUP WeatherMAX	0.75	lb ae/a				
	AMS	3.7	% v/v				
17	ROUNDUP WeatherMAX	1.5	lb ae/a	93		75	99
	AMS	3.7	% v/v				
	AUTHORITY	0.25	lb ai/a				
	ROUNDUP WeatherMAX	0.75	lb ae/a				
	AMS	3.7	% v/v				
18	ROUNDUP WeatherMAX	1.5	lb ae/a	88		57	99
	AMS	3.7	% v/v				
	AMPLIFY	0.6	oz/a				
	ROUNDUP WeatherMAX	0.75	lb ae/a				
	AMS	3.7	% v/v				
19	ROUNDUP WeatherMAX	1.5	lb ae/a	93		52	99
	AMS	3.7	% v/v				
	CANOPY XL	2.5	oz/a				
	ROUNDUP WeatherMAX	0.75	lb ae/a				
	AMS	3.7	% v/v				

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Pest Type
Pest Code
Pest Name
Crop Code
BBCH Scale
Crop Name
Crop Variety
Rating Data Type
Rating Unit
Crop Stage
Trt-Eval Interval
ARM Action Codes
Number of Decimals

W Weed
POLPY
Pennsylvania smartwe

W Weed
SETFA
Giant foxtail

W Weed
ERICA
Horseweed, Canada

CONTROL
PERCENT
PRE POST

CONTROL
PERCENT
PRE POST

CONTROL
PERCENT
2WK POST

Trt No.	Treatment Name	Rate	Unit	4	5	6
20	ROUNDUP WeatherMAX	1.5	lb ae/a		95	87
	AMS	3.7	% v/v			99
	EXTREME	3	pt/a			
	ROUNDUP WeatherMAX	0.75	lb ae/a			
	AMS	3.7	% v/v			
21	ROUNDUP WeatherMAX	1.5	lb ae/a		96	96
	AMS	3.7	% v/v			99
	BOUNDARY	1.63	lb ai/a			
	ROUNDUP WeatherMAX	0.75	lb ae/a			
	AMS	3.7	% v/v			
22	ROUNDUP WeatherMAX	1.5	lb ae/a		95	92
	AMS	3.7	% v/v			99
	DOMAIN	0.45	lb ai/a			
	ROUNDUP WeatherMAX	0.75	lb ae/a			
	AMS	3.7	% v/v			
23	ROUNDUP WeatherMAX	1.5	lb ae/a		95	72
	AMS	3.7	% v/v			99
	FIRSTRATE	0.016	lb ai/a			
	AUTHORITY	0.125	lb ai/a			
	ROUNDUP WeatherMAX	0.75	lb ae/a			
	AMS	3.7	% v/v			
24	ROUNDUP WeatherMAX	1.5	lb ae/a		32	17
	AMS	3.7	% v/v			99
	CHECK					
	ROUNDUP WeatherMAX	0.75	lb ae/a			
	AMS	3.7	% v/v			
	LSD (P=.05)			19.9	16.9	0.0
	Standard Deviation			12.1	10.3	0.0
	CV			15.04	13.98	0.0
	Grand Mean			80.38	73.35	99.0
	Bartlett's X2			48.241	41.046	0.0
	P(Bartlett's X2)			0.001*	0.008*	.
	Replicate F			6.136	0.619	0.000
	Replicate Prob(F)			0.0043	0.5429	1.0000
	Treatment F			11.654	15.541	0.000
	Treatment Prob(F)			0.0001	0.0001	1.0000

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Pest Type	W Weed	W Weed	W Weed	
Pest Code	CHEAL	POLPY	SETFA	
Pest Name	Lambsquarters, commo	Pennsylvania smartwe	Giant foxtail	
Crop Code				GLXMA
BBCH Scale				BSOY
Crop Name				Soybean
Crop Variety				
Rating Data Type	CONTROL	CONTROL	CONTROL	BU/A
Rating Unit	PERCENT	PERCENT	PERCENT	
Crop Stage				
Trt-Eval Interval	2WK POST	2WK POST	2WK POST	
ARM Action Codes				
Number of Decimals				1

Trt No.	Treatment Name	Rate	Unit	7	8	9	15
1	ROUNDUP WeatherMAX	1.5	lb ae/a		99	85	99
	WEEDONE LV4		1 pt/a				56.1
	AMS	3.7	% v/v				
	INTRRO		1 qt/a				
	ROUNDUP WeatherMAX	0.75	lb ae/a				
	AMS	3.7	% v/v				
2	ROUNDUP WeatherMAX	1.5	lb ae/a		99	82	99
	WEEDONE LV4		1 pt/a				61.7
	AMS	3.7	% v/v				
	INTRRO		1.5 qt/a				
	ROUNDUP WeatherMAX	0.75	lb ae/a				
	AMS	3.7	% v/v				
3	ROUNDUP WeatherMAX	1.5	lb ae/a		99	87	99
	WEEDONE LV4		1 pt/a				61.1
	AMS	3.7	% v/v				
	PROWL H20		1 qt/a				
	ROUNDUP WeatherMAX	0.75	lb ae/a				
	AMS	3.7	% v/v				
4	ROUNDUP WeatherMAX	1.5	lb ae/a		99	88	99
	WEEDONE LV4		1 pt/a				63.8
	AMS	3.7	% v/v				
	VALOR SX		2 oz/a				
	ROUNDUP WeatherMAX	0.75	lb ae/a				
	AMS	3.7	% v/v				
5	ROUNDUP WeatherMAX	1.5	lb ae/a		99	93	99
	WEEDONE LV4		1 pt/a				62.2
	AMS	3.7	% v/v				
	AUTHORITY	0.25	lb ai/a				
	ROUNDUP WeatherMAX	0.75	lb ae/a				
	AMS	3.7	% v/v				
6	ROUNDUP WeatherMAX	1.5	lb ae/a		99	93	99
	WEEDONE LV4		1 pt/a				65.0
	AMS	3.7	% v/v				
	AMPLIFY		0.6 oz/a				
	ROUNDUP WeatherMAX	0.75	lb ae/a				
	AMS	3.7	% v/v				
7	ROUNDUP WeatherMAX	1.5	lb ae/a		99	95	99
	WEEDONE LV4		1 pt/a				64.4
	AMS	3.7	% v/v				
	CANOPY XL		2.5 oz/a				
	ROUNDUP WeatherMAX	0.75	lb ae/a				
	AMS	3.7	% v/v				
8	ROUNDUP WeatherMAX	1.5	lb ae/a		99	99	99
	WEEDONE LV4		1 pt/a				66.5
	AMS	3.7	% v/v				
	EXTREME		3 pt/a				
	ROUNDUP WeatherMAX	0.75	lb ae/a				
	AMS	3.7	% v/v				
9	ROUNDUP WeatherMAX	1.5	lb ae/a		99	96	99
	WEEDONE LV4		0.5 lb ai/a				63.2
	AMS	3.7	% v/v				
	BOUNDARY	1.63	lb ai/a				
	ROUNDUP WeatherMAX	0.75	lb ae/a				
	AMS	3.7	% v/v				

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

Pest Type	W Weed	W Weed	W Weed	
Pest Code	CHEAL	POLPY	SETFA	
Pest Name	Lambsquarters, commo	Pennsylvania smartwe	Giant foxtail	
Crop Code				GLXMA
BBCH Scale				BSOY
Crop Name				Soybean
Crop Variety				
Rating Data Type	CONTROL	CONTROL	CONTROL	BU/A
Rating Unit	PERCENT	PERCENT	PERCENT	
Crop Stage				
Trt-Eval Interval	2WK POST	2WK POST	2WK POST	
ARM Action Codes				
Number of Decimals				1

Trt No.	Treatment Name	Rate	Unit	7	8	9	15
10	ROUNDUP WeatherMAX	1.5	lb ae/a		99	96	99
	WEEDONE LV4	0.5	lb ai/a				64.1
	AMS	3.7	% v/v				
	DOMAIN	0.45	lb ai/a				
	ROUNDUP WeatherMAX	0.75	lb ae/a				
	AMS	3.7	% v/v				
11	ROUNDUP WeatherMAX	1.5	lb ae/a	99		96	99
	WEEDONE LV4	0.5	lb ai/a				63.9
	AMS	3.7	% v/v				
	FIRSTRATE	0.016	lb ai/a				
	AUTHORITY	0.125	lb ai/a				
	ROUNDUP WeatherMAX	0.75	lb ae/a				
	AMS	3.7	% v/v				
12	ROUNDUP WeatherMAX	1.5	lb ae/a	99		75	99
	WEEDONE LV4	0.5	lb ai/a				62.0
	AMS	3.7	% v/v				
	CHECK						
	ROUNDUP WeatherMAX	0.75	lb ae/a				
	AMS	3.7	% v/v				
13	ROUNDUP WeatherMAX	1.5	lb ae/a	99		72	99
	AMS	3.7	% v/v				71.4
	INTRRO	1	qt/a				
	ROUNDUP WeatherMAX	0.75	lb ae/a				
	AMS	3.7	% v/v				
14	ROUNDUP WeatherMAX	1.5	lb ae/a	99		82	99
	AMS	3.7	% v/v				65.7
	INTRRO	1.5	qt/a				
	ROUNDUP WeatherMAX	0.75	lb ae/a				
	AMS	3.7	% v/v				
15	ROUNDUP WeatherMAX	1.5	lb ae/a	99		85	99
	AMS	3.7	% v/v				64.9
	PROWL H20	1	qt/a				
	ROUNDUP WeatherMAX	0.75	lb ae/a				
	AMS	3.7	% v/v				
16	ROUNDUP WeatherMAX	1.5	lb ae/a	99		93	99
	AMS	3.7	% v/v				68.0
	VALOR SX	2	oz/a				
	ROUNDUP WeatherMAX	0.75	lb ae/a				
	AMS	3.7	% v/v				
17	ROUNDUP WeatherMAX	1.5	lb ae/a	99		96	99
	AMS	3.7	% v/v				71.1
	AUTHORITY	0.25	lb ai/a				
	ROUNDUP WeatherMAX	0.75	lb ae/a				
	AMS	3.7	% v/v				
18	ROUNDUP WeatherMAX	1.5	lb ae/a	99		96	99
	AMS	3.7	% v/v				72.5
	AMPLIFY	0.6	oz/a				
	ROUNDUP WeatherMAX	0.75	lb ae/a				
	AMS	3.7	% v/v				
19	ROUNDUP WeatherMAX	1.5	lb ae/a	99		98	99
	AMS	3.7	% v/v				75.0
	CANOPY XL	2.5	oz/a				
	ROUNDUP WeatherMAX	0.75	lb ae/a				
	AMS	3.7	% v/v				

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Pest Type	W Weed	W Weed	W Weed	
Pest Code	CHEAL	POLPY	SETFA	
Pest Name	Lambsquarters, commo	Pennsylvania smartwe	Giant foxtail	
Crop Code				GLXMA
BBCH Scale				BSOY
Crop Name				Soybean
Crop Variety				
Rating Data Type	CONTROL	CONTROL	CONTROL	BU/A
Rating Unit	PERCENT	PERCENT	PERCENT	
Crop Stage				
Trt-Eval Interval	2WK POST	2WK POST	2WK POST	
ARM Action Codes				
Number of Decimals				1

Trt No.	Treatment Name	Rate	Unit	7	8	9	15
20	ROUNDUP WeatherMAX	1.5	lb ae/a				
	AMS	3.7	% v/v	99		98	99
	EXTREME	3	pt/a				75.8
	ROUNDUP WeatherMAX	0.75	lb ae/a				
	AMS	3.7	% v/v				
21	ROUNDUP WeatherMAX	1.5	lb ae/a	99		99	99
	AMS	3.7	% v/v				70.1
	BOUNDARY	1.63	lb ai/a				
	ROUNDUP WeatherMAX	0.75	lb ae/a				
	AMS	3.7	% v/v				
22	ROUNDUP WeatherMAX	1.5	lb ae/a	99		96	99
	AMS	3.7	% v/v				75.1
	DOMAIN	0.45	lb ai/a				
	ROUNDUP WeatherMAX	0.75	lb ae/a				
	AMS	3.7	% v/v				
23	ROUNDUP WeatherMAX	1.5	lb ae/a	99		95	99
	AMS	3.7	% v/v				71.1
	FIRSTRATE	0.016	lb ai/a				
	AUTHORITY	0.125	lb ai/a				
	ROUNDUP WeatherMAX	0.75	lb ae/a				
	AMS	3.7	% v/v				
24	ROUNDUP WeatherMAX	1.5	lb ae/a	99		85	99
	AMS	3.7	% v/v				70.0
	CHECK						
	ROUNDUP WeatherMAX	0.75	lb ae/a				
	AMS	3.7	% v/v				
	LSD (P=.05)			0.0		5.0	0.0
	Standard Deviation			0.0		3.0	0.0
	CV			0.0		3.33	0.0
	Grand Mean			99.0		90.88	99.0
	Bartlett's X2			0.0		6.971	0.0
	P(Bartlett's X2)			.		0.997	.
	Replicate F			0.000		2.035	0.000
	Replicate Prob(F)			1.0000		0.1423	1.0000
	Treatment F			0.000		19.491	0.000
	Treatment Prob(F)			1.0000		0.0001	1.0000

Dept. of Agronomy, Univ. of Ky
Weed Science Field Research

SOYBEAN HORSEWEED

Trial ID: S4030
Location: LEXINGTON, KY

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

General Trial Information

Study Director: CHARLES H. SLACK
Affiliation: UNIVERSITY OF KENTUCKY
Postal Code: 40546
Investigator: Charles H. Slack

Trial Location

City: LEXINGTON **Trial Status:** COMPLETE
State/Prov.: KENTUCKY
Postal Code: 40511 **Initiation Date:** 4-15-04
Directions:

Objectives:

Conclusions:

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: ASGROW 4403
BBCH Scale: BSOY **Planting Date:** 5-11-04
Planting Method: ROW **Rate, Unit:** 200000 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM **Soil Temperature, Unit:** 66 F
Soil Moisture: SLIGHTLY WET **Emergence Date:** 5-15-04
Harvest Date: 10-28-04 **Harvest Equipment:** COMBINE
Harvested Width, Unit: 48 IN **Harvested Length, Unit:** 30 FT

Pest Description

Pest 1 Type: W **Code:** ERICA *Erigeron canadensis*
Common Name: Horseweed, Canada
Pest 2 Type: W **Code:** CHEAL *Chenopodium album*
Common Name: Lambsquarters, common
Pest 3 Type: W **Code:** POLPY *Polygonum pensylvanicum*
Common Name: Pennsylvania smartweed
Pest 4 Type: W **Code:** SETFA *Setaria faberi*
Common Name: Giant Foxtail

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD
Plot Length, Unit: 33 FT **Tillage Type:** MINIMUM-TILL
Replications: 3 **Study Design:** Split-Block

Trial Initiation Comments:

Field Prep./Maintenance:

Soil Description

% Sand: 6 **% OM:** 2.6 **Texture:** SILT LOAM
% Silt: 62 **pH:** 6.4 **Soil Name:** MAURY
% Clay: 32 **CEC:** 17 **Fert. Level:** EXCELLENT

Moisture Conditions

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

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Weed Science Field Research

Application Description

	A	B	C
Application Date:	4-15-04	4-28-04	6-2-04
Time of Day:	1:00	2:00	10:00
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	30D	21D	+4W
Application Placement:	BROFOL	BROFOL	BROFOL
Air Temperature, Unit:	54 F	54 F	68 F
% Relative Humidity:	50	53	68
Wind Velocity, Unit:	2 MPH	4 MPH	3 MPH
Dew Presence (Y/N):	N	N	N
Soil Temperature, Unit:	52 F	57 F	67 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	10	20	20

Crop Stage At Each Application

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

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Disc., Scale:	ERICA W	ERICA W	ERICA W
Height, Unit:		1	IN
Pest 2 Code, Disc., Scale:	CHEAL W	CHEAL W	CHEAL W
Height, Unit:	1	IN 2	IN 5
Pest 3 Code, Disc., Scale:	POLPY W	POLPY W	POLPY W
Height, Unit:	1	IN 2	IN
Pest 4 Code, Disc., Scale:	SETFA W	SETFA W	SETFA W
Height, Unit:	1	IN 2	IN 4

Application Equipment

	A	B	C
Appl. Equipment:	ATV	ATV	ATV
Operating Pressure:	30	30	30
Pressure Unit:	PSI	PSI	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:	19 IN	19 IN	25 IN
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH
Carrier:	WATER	WATER	WATER
Spray Volume:	12	12	12
Volume Unit:	GPA	GPA	GPA
Propellant:	CO2	CO2	CO2