



Plant and Soil Sciences

2005

Herbicide Evaluation Trials

Charles H. Slack and William W. Witt

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

[Table of Contents](#)

[Acknowledgements](#)

[Chemicals Used](#)

[Methods of Application](#)

[Weed/Crop Code Abbreviations](#)

[Climatology](#)

Trials

[C5001](#) [C5002](#) [C5003](#) [C5004](#) [C5005](#) [C5006](#)

[C5007](#) [C5008](#) [C5009](#) [C5010](#) [C5011](#) [C5014](#)

[C5015](#) [C5016](#) [C5017](#) [C5018](#) [C5040](#) [C5041](#)

[C5042](#) [C5043](#) [C5044](#)

[FBC4002](#) [FBS4003](#)

[S5014](#) [S5015](#) [S5018](#) [S5019](#) [S5020](#) [S5022](#)

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[UK WEED SCIENCE](#)

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TABLE OF CONTENTS

LIST OF CHEMICALS USED

DEFINITIONS OF METHODS OF APPLICATION

CLIMATOLOGICAL DATA

CORN PREEMERGENCE (C5001)

CORN PREEMERGENCE II (C5002)

CORN PREEMERGENCE III (C5017)

CORN PREEMERGENCE IV (C5018)

CORN PREEMERGENCE V (C5005)

CORN PREEMERGENCE VI (C5006)

CORN PREEMERGENCE VII (C5008)

CORN PREEMERGENCE VIII (C5015)

CORN PREEMERGENCE IX (C5016)

CORN PREEMERGENCE & POSTEMERGENCE (C5003)

CORN PREEMERGENCE & POSTEMERGENCE II (C5011)

CORN POSTEMERGENCE (C5009)

CORN PREEMERGENCE & POSTEMERGENCE LIBERTY (C5010)

CORN EARLY PREPLANT, PREEMERGENCE & POSTEMERGENCE (C5007)

NO-TILL CORN (C5004)

NO-TILL CORN II (C5014)

NO-TILL CORN EARLY PREPLANT ROUNDUP READY (C5040)

NO-TILL CORN EARLY PREPLANT ROUNDUP READY II (C5041)

NO-TILL CORN ROUNDUP READY (C5043)

NO-TILL CORN ROUNDUP READY II (C5044)

NO-TILL CORN ROUNDUP READY VARIETIES (C5042)

CORN FALL BURNDOWN (FBC4002)

SOYBEAN FALL BURNDOWN (FBS4003)

SOYBEAN POSTEMERGENCE (S5014)

SOYBEAN POSTEMERGENCE II (S5015)

NO-TILL SOYBEAN EARLY PREPLANT (S5018)

NO-TILL SOYBEAN EARLY PREPLANT II (S5019)

NO-TILL SOYBEAN EARLY PREPLANT III (S5022)

NO-TILL SOYBEAN (S5020)

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HERBICIDES IN REPORT

<u>TRADE NAME</u>	<u>COMMON NAME</u>	<u>COMPANY</u>
A14354A	S-METOLACHLOR + FOMESAFEN	SYNGENTA
A14972A	S-METOLACHLOR + FOMESAFEN	SYNGENTA
AATREX	ATRAZINE	SYNGENTA
ACCENT	NICOSULFURON	DUPONT
ACETO ATRAZINE	ACETOCHLOR + ATRAZINE	MANA
ACTIVATOR 90	SURFACTANT	LOVELAND
AIM	CARFENTRAZONE	FMC
AMS	AMMONIUM SULFATE	CLEAN CROP
ARROW	CLETHODIM	MANA
BALANCE PRO	ISOXAFLUTOLE	BAYER
BANVEL	DICAMBA	MICRO FLO
BARRAGE HF	2,4-D ESTER	HELENA
BASAGRAN	BENTAZON	BASF
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
BUCTRIL/ATRA	BROMOXYNIL + ATRAZINE	BAYER
CALLISTO	MESOTRIONE	SYNGENTA
CAMIX	S-METOLACHLOR + MESOTRIONE + BENOXACOR	SYNGENTA
CANOPY EX	CHLORIMURON + TRIBENURON	DUPONT
CANOPY XL	CHLORIMURON + SULFENTRAZONE (1:5 RATIO)	DUPONT
CELEBRITY PLUS	DICAMBA + DIFLUFENZOPYR + NICOSULFURON	BASF
CINCH ATZ	S-METOLACHLOR + ATRAZINE + BENOXACOR	DUPONT
CLARITY	DIGLYCOLAMINE SALT OF DICAMBA	BASF
CLASSIC	CHLORIMURON	DUPONT
COBRA	LACTOFEN	VALENT
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
DUAL II MAGNUM	S-METOLACHLOR + BENOXACOR	SYNGENTA
EQUIP CORN HERBICIDE	FORAMSULFURON + IODPSULFURON-METHYL-SODIUM	BAYER
EXPRESS	TRIBENURON METHYL	DUPONT
EXTREME	IMAZETHAPYR + GLYPHOSATE	BASF
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
GLYPHOMAX XRT	GLYPHOSATE	DOW AGROSCIENCE
GRAMOXONE INTEON	PARAQUAT	SYNGENTA
GRAMOXONE MAX	PARAQUAT	SYNGENTA
GUARDSMAN MAX	DIMETHENAMID-P + ATRAZINE	BASF
HARMONY GT	THIFENSULFURON	DUPONT
HARNESS	ACETOCHLOR	MONSANTO
HARNESS EXTRA	ACETOCHLOR + ATRAZINE + MON13900	MONSANTO
HORNET	FLUMETSULAM + CLOPYRALID	DOW AGROSCIENCE
IMPACT	TOPRAMEZONE	AMVC
KEYSTONE	ACETOCHLOR + ATRAZINE	DOW AGROSCIENCE
KIH-485	KIH-485	KUMIAI CHEMICAL
KIH-485/ATRAZINE	KIH-485 + ATRAZINE	KUMIAI CHEMICAL
LEXAR	S-METOLACHLOR + MESOTRIONE + ATRAZINE	SYNGENTA
LIBERTY	GLUFOSINATE-AMMONIUM	BAYER
LIGHTNING	IMAZETHAPYR + IMAZAPYR	BASF
LINEX	LINURON	GRIFFIN
LIQUID N	28% NITROGEN	
LOROX PLUS	CHLORIMURON + METRIBUZIN	GRIFFIN
LUMAX	S-METOLACHLOR + MESOTRIONE + ATRAZINE	SYNGENTA
MANA 283	METOLACHLOR + ATRAZINE	MANA
MANA 284	METOLACHLOR + ATRAZINE	MANA
MANA ACE	ACETOCHLOR	MANA
MARKSMAN	DICAMBA + ATRAZINE (2.1 + 1.1)	BASF
MSO	METHYLATED SEED OIL	LOVELAND
OPTION	FORAMSULFURON	BAYER
OUTLOOK	DIMETHENAMID-P	BASF
PREVIEW	CHLORIMURON + METRIBUZIN	DUPONT
PRINCEP	SIMAZINE	SYNGENTA
PROWL H2O	PENDIMETHALIN	BASF
RADIUS	ISOXAFLUTOLE + FLUFENACET	BAYER
RAPTOR	IMAZAMOX	BASF
RESOURCE	FLUMICLORAC PENTYL	VALENT
RIMSULFURON	RIMSULFURON	DUPONT
ROUNDUP ORIGINAL	GLYPHOSATE	MONSANTO
ROUNDUP ORINGINAL MAX	GLYPHOSATE (POTASSIUM SALT)	MONSANTO
ROUNDUP WEATHER MAX	GLYPHOSATE + ADJUVANT (POTASSIUM SALT)	MONSANTO
SELECT	CLETHODIM	VALENT

HERBICIDES IN REPORT CONTINUED

<u>TRADE NAME</u>	<u>COMMON NAME</u>	<u>COMPANY</u>
SENCOR	METRIBUZIN	BAYER
SEQUENCE	GLYPHOSATE + S-METOLACHLOR	SYNGENTA
SPARTAN	SULFENTRAZONE	FMC
SPIRIT	PRIMISULFURON + PROSULFURON	SYNGENTA
STALWART C	METOLACHLOR	SIPCAM
STALWART XTRA	METOLACHLOR + ATRAZINE	SIPCAM
STEADFAST	NICOSULFURON + RIMSULFURON	DUPONT
STEADFAST ATZ	NICOSULFURON + RIMSULFURON + ATRAZINE	DUPONT
SURPASS	ACETOCHLOR	DOW AGROSCIENCE
SYNCHRONY XP	CHLORIMURON + THIFENSULFURON	DUPONT
THIFENSULFURON	THIFENSULFURON	DUPONT
TOUCHDOWN Total	GLYPHOSATE	SYNGENTA
ULTRA BLAZER	ACIFLUORFEN	UNITED PHOSPHORUS
VALOR SX	FLUMIOXAZIN (V-53482)	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
18D	18 DAYS BEFORE PLANTING
PRE	PREEMERGENCE

POSTEMERGENCE

EP	EARLY POSTEMERGENCE WEEDS 0-2"
MP	MID-POSTEMERGENCE WEEDS 2-4"
LP	LATE POSTEMERGENCE WEEDS 4-6"
4W	4 INCH WEEDS
7W	7 INCH WEEDS
3C	3 INCH CORN
5C	5 INCH CORN
10C	10 INCH CORN
16C	16 INCH CORN
20C	20 INCH CORN
V3	12 INCH CORN, 5LF
V8	24 INCH CORN
3TR	3 TRIFOLATE
6TR	6 TRIFOLATE

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>
ERICA	Horseweed	<i>Conyza Canadensis cronq</i>
GLYMA	Soybean	<i>Glycine max</i>
IPOSS	Morningglory	<i>Ipomoea ssp.</i>
LAMAM	Henbit	<i>Lamium amplexicaule</i>
SETFA	Giant Foxtail	<i>Setaria faberi</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 SPINDLOTOP

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	MX	MN	MX	MN	
04-01-2005	51	42	46	0.44	100	63	54	49	53	48	
04-02-2005	46	39	42	0.12	100	58	49	46	48	45	
04-03-2005	62	37	50		66	33	50	44	54	41	
04-04-2005	73	41	57		78	36	55	47	61	45	
04-05-2005	76	51	64		65	27	57	51	61	50	
04-06-2005	75	56	66		80	29	57	53	62	53	
04-07-2005	66	58	62	0.04	100	80	57	55	61	56	
04-08-2005	68	50	59	0.01	100	33	58	55	64	56	
04-09-2005	74	43	58		79	47	59	53	67	52	
04-10-2005	81	52	66		100	35	62	56	72	56	
04-11-2005	78	60	69		95	46	63	59	72	61	
04-12-2005	65	56	60	0.17	100	46	62	59	66	60	
04-13-2005	56	46	51	0.33	100	52	59	56	60	55	
04-14-2005	65	38	52		68	30	57	53	64	49	
04-15-2005	68	40	54		65	30	57	53	65	51	
04-16-2005	70	44	57		61	30	58	54	67	52	
04-17-2005	77	46	62		64	29	59	54	69	54	
04-18-2005	77	55	66		68	35	60	56	72	57	
04-19-2005	77	54	66		75	41	61	57	73	59	
04-20-2005	77	56	66		68	40	61	58	74	61	
04-21-2005	69	52	60	0.04	100	56	61	59	71	62	
04-22-2005	71	53	62	0.38	100	65	61	59	68	62	
04-23-2005	53	35	44	0.17	100	100	59	52	62	50	
04-24-2005	47	33	40	0.01	100	50	52	49	50	46	
04-25-2005	63	41	52		69	31	53	49	59	46	
04-26-2005	59	43	51	0.45	100	48	53	51	55	52	
04-27-2005	54	41	48	0.01	100	48	54	51	57	49	
04-28-2005	59	40	50	0.14	100	47	53	50	55	48	
04-29-2005	60	48	54	0.86	100	100	54	52	57	52	
04-30-2005	57	44	50	0.13	100	70	55	54	56	54	

TOTAL	AIR TEMP			TOTAL	PRECIP	RH		SOIL TEMP			
	MX	MN	AV			MX	MN	MX	MN	MX	MN
	66	46	56	3.30	87	48	57	53	62	53	
(Dev. from normal)	+0	+2	+1	-0.58							

MAY CLIMATOLOGICAL DATA

SPINDLETOP

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	MX	MN	MX	MN	
05-01-2005	60	38	49		100	33	56	50	59	48	
05-02-2005	53	41	47		71	39	56	52	57	51	
05-03-2005	55	34	44		100	34	56	50	58	48	
05-04-2005	61	36	48		100	32	57	50	62	48	
05-05-2005	69	41	55		77	36	59	52	65	51	
05-06-2005	70	44	57		100	32	63	55	70	55	
05-07-2005	76	48	62		74	40	62	56	70	56	
05-08-2005	80	54	67		100	43	66	59	75	60	
05-09-2005	82	58	70		85	41	67	61	75	63	
05-10-2005 E	79	60	70		99	53	67	63			
05-11-2005	85	60	72		100	41	69	62	79	65	
05-12-2005	74	58	66		100	75	68	65	78	68	
05-13-2005	85	57	71		100	43	69	64	79	66	
05-14-2005	72	55	64	0.63	100	65	67	65	73	66	
05-15-2005	63	45	54		100	50	65	62	70	61	
05-16-2005	63	41	52		100	49	63	58	67	57	
05-17-2005	68	42	55		100	40	65	57	72	56	
05-18-2005	77	46	62		97	46	68	59	76	59	
05-19-2005	79	56	68	0.98	100	57	67	63	73	64	
05-20-2005	73	58	66	0.01	100	62	68	64	73	64	
05-21-2005	71	51	61		100	40	70	64	75	62	
05-22-2005	74	49	62	0.14	100	41	68	63	74	62	
05-23-2005	78	57	68		100	36	68	65	75	64	
05-24-2005	65	51	58		100	49	67	63	71	62	
05-25-2005	68	48	58		100	50	67	62	73	61	
05-26-2005	75	48	62		100	45	69	61	78	61	
05-27-2005	76	58	67		100	31	70	64	80	66	
05-28-2005	75	54	64	0.02	100	37	70	65	79	67	
05-29-2005	77	52	64		100	30	71	64	81	65	
05-30-2005	73	56	64		100	56	69	64	76	67	
05-31-2005	76	49	62		100	41	71	64	80	65	

(Dev. from normal)	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	MX	MN	MX	MN	
	72	50	61	1.78	97	44	66	60	72	60	
	-4	-5	-4	-2.69							

JUNE CLIMATOLOGICAL DATA SPINDLETOP

DATE	AIR TEMP			PRECIP	SOIL TEMP		GRASS		BARE		EVAP
	MX	MN	AV		RH		MX	MN	MX	MN	
	-----	-----	-----		-----	-----	-----	-----	-----	-----	
06-01-2005	79	57	68	0.01	100	46	69	65	77	68	
06-02-2005	69	58	64	0.01	100	100	67	65	71	67	
06-03-2005	77	62	70	0.07	100	100	69	65	75	67	
06-04-2005	84	60	72		100	49	73	67	82	68	
06-05-2005	91	66	78		100	44	75	68	86	71	
06-06-2005	92	71	82		100	39	76	71	89	75	
06-07-2005	85	66	76		100	54	76	71	86	75	
06-08-2005	88	68	78		100	46	77	71	88	75	
06-09-2005	90	69	80		100	43	78	72	88	77	
06-10-2005	87	71	79	0.94	100	52	78	73	86	78	
06-11-2005	78	71	74	0.01	100	100	75	73	79	76	
06-12-2005	85	68	76	0.14	100	61	76	73	81	74	
06-13-2005	85	72	78		100	56	77	73	83	75	
06-14-2005	89	69	79	0.10	100	51	77	74	84	75	
06-15-2005	82	65	74		100	42	75	72	82	72	
06-16-2005	77	59	68		100	36	74	70	84	71	
06-17-2005	78	53	66		100	33	72	67	81	69	
06-18-2005	75	60	68		81	49	72	68	80	71	
06-19-2005	79	56	68		100	46	73	67	83	69	
06-20-2005	80	55	68		100	39	73	67	83	70	
06-21-2005	82	57	70		100	36	74	68	83	72	
06-22-2005	88	67	78		77	28	76	69	87	73	
06-23-2005	89	58	74		100	25	77	69	88	73	
06-24-2005	93	64	78		67	20	79	70	90	74	
06-25-2005	95	64	80		100	26	79	72	89	76	
06-26-2005	93	66	80		100	29	80	74	89	77	
06-27-2005	89	72	80		78	46	77	75	82	79	
06-28-2005 E	91	70	80	T	90	30	79	75	85	78	
06-29-2005 E	90	70	80	0.05	100	40	79	75	85	78	
06-30-2005	94	70	82	T	92	38	81	74	82	71	

(Dev. from normal)	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	MX	MN	MX	MN	
	-----	-----	-----		-----	-----	-----	-----	-----	-----	
	85	64	75	1.33	96	47	75	70	84	73	
	+2	+2	+2	-2.33							

JULY CLIMATOLOGICAL DATA SPINDLETOP

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	MX	MN	MX	MN	
07-01-2005	89	67	78	0.01	94	38	80	75	81	71	
07-02-2005	87	62	74		89	35	79	72	81	69	
07-03-2005	92	64	78	0.08	86	37	80	73	80	69	
07-04-2005 E	93	70	82		90	40	80	78	88	85	
07-05-2005	83	71	77		100	59	80	75	85	78	
07-06-2005	87	67	77		100	38	80	74	86	77	
07-07-2005	83	67	75		100	50	79	75	84	77	
07-08-2005	88	63	76		100	32	81	73	87	75	
07-09-2005	89	63	76		100	21	83	73	90	76	
07-10-2005	91	62	76		76	24	83	74	89	76	
07-11-2005	81	70	76	0.02	100	56	79	76	82	78	
07-12-2005	78	68	73	0.20	100	71	76	74	78	76	
07-13-2005	72	66	69	0.63	100	100	74	73	75	74	
07-14-2005	78	67	72	0.12	100	100	76	72	78	73	
07-15-2005	83	67	75		100	100	78	74	81	75	
07-16-2005	82	72	77	0.02	100	100	79	75	81	76	
07-17-2005	83	71	77	0.27	100	91	80	76	82	76	
07-18-2005	87	71	79	0.10	100	59	81	76	84	76	
07-19-2005	86	69	78	1.85	100	61	81	77	84	78	
07-20-2005	88	70	79		100	65	82	76	85	76	
07-21-2005	90	72	81		100	50	83	77	87	78	
07-22-2005	85	70	78		100	56	82	78	86	79	
07-23-2005	89	69	79		100	44	83	77	88	78	
07-24-2005	90	71	80		100	52	83	78	88	78	
07-25-2005	93	73	83		100	51	84	79	90	80	
07-26-2005	92	77	84		100	45	84	80	91	82	
07-27-2005	83	66	74		100	78	82	79	86	81	
07-28-2005	84	65	74		100	42	82	76	88	78	
07-29-2005	87	61	74		100	36	80	75	87	77	
07-30-2005	87	64	76		100	27	81	75	88	77	
07-31-2005	90	63	76		100	28	82	75	89	77	

	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	MX	MN	MX	MN	
(Dev. from normal)	+0	+3	+2	-1.70	98	54	81	75	85	77	

AUGUST CLIMATOLOGICAL DATA SPINDLETOP

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	MX	MN	MX	MN	
08-01-2005	92	65	78		100	28	82	75	90	78	
08-02-2005	94	65	80		100	29	83	75	90	79	
08-03-2005	96	68	82		100	23	83	76	91	79	
08-04-2005	97	70	84		100	23	84	76	91	80	
08-05-2005	92	70	81		100	40	81	78	87	81	
08-06-2005	86	68	77		100	56	81	76	86	79	
08-07-2005	91	67	79		100	40	82	76	88	79	
08-08-2005	86	65	76		100	46	81	75	86	78	
08-09-2005	91	64	78		100	32	82	75	89	77	
08-10-2005	95	64	80		100	27	83	75	91	78	
08-11-2005	96	71	84		100	32	84	77	91	80	
08-12-2005	97	73	85		100	28	85	78	92	81	
08-13-2005	96	72	84	0.03	100	34	83	79	89	82	
08-14-2005	92	68	80		100	36	82	77	88	78	
08-15-2005	88	69	78		100	47	82	77	88	80	
08-16-2005	78	72	75	0.75	100	100	79	77	83	80	
08-17-2005	85	67	76		100	53	80	76	82	77	
08-18-2005	83	70	76		100	86	79	76	83	77	
08-19-2005	92	70	81	0.24	100	56	81	76	87	77	
08-20-2005	95	74	84		100	44	83	78	89	79	
08-21-2005	90	68	79		100	32	82	77	90	78	
08-22-2005	88	64	76		100	42	79	75	87	76	
08-23-2005	82	62	72		100	40	80	74	86	75	
08-24-2005	85	59	72		100	30	80	73	86	74	
08-25-2005	91	58	74		100	29	80	72	88	74	
08-26-2005	82	73	78	0.11	100	83	78	76	82	79	
08-27-2005	84	72	78	0.02	100	59	78	75	82	77	
08-28-2005	82	68	75	0.21	100	70	76	74	79	76	
08-29-2005	72	68	70	0.23	100	100	74	73	76	74	
08-30-2005	73	70	72	1.58	100	100	74	73	75	74	
08-31-2005	80	65	72	0.17	100	49	75	72	79	73	

TOTAL	AIR TEMP			TOTAL	RH	SOIL TEMP				EVAP	
	MX	MN	AV			MX	MN	MX	MN		
	88	68	78	3.34	100	48	81	76	86	78	
(Dev. from normal)	+4	+5	+5	-0.59							

SEPTEMBER CLIMATOLOGICAL DATA SPINDLTOP

DATE	AIR TEMP			PRECIP	RH		SOIL TEMP				EVAP
	MX	MN	AV		MX	MN	MX	MN	MX	MN	
09-01-2005	84	61	72		100	44	76	70	81	71	
09-02-2005	83	65	74		100	29	76	72	81	74	
09-03-2005	80	58	69		100	41	75	70	79	71	
09-04-2005	79	59	69		100	39	75	70	78	71	
09-05-2005	83	55	69		100	44	74	69	79	69	
09-06-2005	84	60	72		100	42	75	70	80	70	
09-07-2005	83	56	70		100	40	74	69	80	70	
09-08-2005	83	57	70		100	45	74	68	80	70	
09-09-2005	87	63	75		100	47	75	70	80	72	
09-10-2005	86	62	74		100	38	75	70	81	72	
09-11-2005	87	62	74		100	32	75	70	82	72	
09-12-2005	86	58	72		100	36	75	69	82	72	
09-13-2005	86	61	74		100	32	75	70	82	73	
09-14-2005	82	62	72		100	57	74	69	79	72	
09-15-2005	88	63	76		100	44	75	70	81	72	
09-16-2005	83	66	74	0.07	100	60	75	72	81	75	
09-17-2005	76	63	70		100	58	73	71	78	74	
09-18-2005	81	60	70		100	46	74	69	79	71	
09-19-2005	89	59	74	0.27	100	32	75	68	81	70	
09-20-2005	80	65	72	0.39	100	54	74	71	80	73	
09-21-2005	86	60	73		100	43	74	69	81	71	
09-22-2005	87	60	74		100	52	74	69	80	71	
09-23-2005	88	70	79		100	49	75	71	81	73	
09-24-2005	89	68	78		100	43	76	72	81	74	
09-25-2005	82	71	76		100	50	74	72	77	74	
09-26-2005	76	62	69	0.18	100	79	72	71	76	73	
09-27-2005	76	56	66		100	48	71	68	77	69	
09-28-2005	83	54	68		100	42	70	65	75	66	
09-29-2005	75	48	62	0.08	100	42	70	65	74	67	
09-30-2005	73	42	58		100	30	66	60	72	61	

	AIR TEMP			TOTAL PRECIP	RH		SOIL TEMP				TOTAL EVAP
	MX	MN	AV		MX	MN	MX	MN	MX	MN	
	83	60	72	0.99	100	45	74	69	79	71	
(Dev. from normal)	+5	+5	+5	-2.21							

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

CORN PREEMERGENCE

Trial ID: C5001
Protocol ID:
Location: LEXINGTON, KY

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

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

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

CORN PREEMERGENCE

Trial ID: C5001
Protocol ID:
Location: LEXINGTON, KY

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

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

Trt Treatment	Form	Rate	Growth	1	2	3	4	5	6	7	8	
No. Name	Conc	Rate	Stage									
11 STALWART C	7.8	1.67	PT/A	PRE	0	99	93	93	0	99	75	75
11 AATREX	4	1.5	QT/A	PRE								
11 CALLISTO	4	5	FL OZ/A	PRE								
12 STALWART XTRA	5.5	2.1	QT/A	PRE	0	99	92	92	0	95	80	80
12 BALANCE PRO	4	2.25	FL OZ/A	PRE								
13 STALWART XTRA	5.5	1.4	QT/A	PRE	0	99	98	98	0	98	91	91
13 ROUNDUP ORIGINAL MAX	5.5	22	FL OZ/A	LP								
13 AMS		3.7	% V/V	LP								
14 STALWART XTRA	5.5	1.4	QT/A	PRE	0	99	98	98	0	98	90	90
14 ROUNDUP ORIGINAL MAX	5.5	22	FL OZ/A	LP								
14 CLARITY	4	1	FL OZ/A	LP								
14 AMS		3.7	% V/V	LP								
LSD (P=.05)				0.0	1.4	4.6	4.7	0.0	5.1	10.0	10.0	
Standard Deviation				0.0	0.8	2.7	2.8	0.0	3.1	5.9	5.9	
CV				0.0	0.85	2.85	2.9	0.0	3.17	6.9	6.9	
Grand Mean				0.0	98.81	96.17	96.26	0.0	96.81	85.93	85.93	
Replicate F				0.000	2.167	0.956	1.246	0.000	2.108	0.551	0.551	
Replicate Prob(F)				1.0000	0.1348	0.3977	0.3042	1.0000	0.1418	0.5831	0.5831	
Treatment F				0.000	1.000	3.021	2.829	0.000	0.920	4.302	4.302	
Treatment Prob(F)				1.0000	0.4786	0.0079	0.0116	1.0000	0.5460	0.0008	0.0008	

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

CORN PREEMERGENCE

Trial ID: C5001
Protocol ID:
Location: LEXINGTON, KY

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

Pest Type		W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	XANST
Pest Name		Giant foxtail	Giant Ragweed	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	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Form Conc	Rate	Rate Unit	Growth Stage	9	10	11	12
1 BICEP II MAGNUM	5.5	2.1	QT/A	PRE	0	95	57	57
2 BICEP II MAGNUM	5.5	2.1	QT/A	PRE	0	93	92	92
2 CALLISTO	4	3	FL OZ/A	EP				
2 AATREX	4	0.5	QT/A	EP				
3 LEXAR	3.7	3	QT/A	PRE	0	91	76	76
4 LEXAR	3.7	2.25	QT/A	PRE	0	99	83	83
4 TOUCHDOWN TOTAL	4.17	24	FL OZ/A	EP				
4 AMS		3.7	% V/V	EP				
5 LEXAR	3.7	2.25	QT/A	LP	0	96	93	93
5 TOUCHDOWN TOTAL	4.17	24	FL OZ/A	LP				
5 AMS		3.7	% V/V	LP				
6 LUMAX	3.94	2.5	QT/A	PRE	0	98	83	83
6 AATREX	4	1	QT/A	PRE				
7 KIH-485	60	0.148	LB A/A	PRE	0	96	85	85
7 ROUNDUP WeatherMAX	5.5	22	FL OZ/A	LP				
7 AMS		3.7	% V/V	LP				
8 KEYSTONE	5.25	2.65	QT/A	PRE	0	98	73	73
8 AATREX	4	0.5	QT/A	PRE				
9 KEYSTONE	5.25	2.65	QT/A	PRE	0	96	78	78
9 AATREX	4	0.5	QT/A	PRE				
9 HORNET	68.5	3	OZ/A	PRE				
10 KEYSTONE	5.25	1.33	QT/A	PRE	0	98	87	87
10 AATREX	4	0.5	QT/A	PRE				
10 GLYPHOMAX XRT	5.4	24	FL OZ/A	LP				
10 AMS	100	1.5	% V/V	LP				

Dept. of Agronomy, Univ. of Ky
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CORN PREEMERGENCE

Trial ID: C5001
Protocol ID:
Location: LEXINGTON, KY

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

Pest Type		W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	XANST
Pest Name		Giant foxtail	Giant Ragweed	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	8 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Form Conc	Rate Rate	Unit Unit	Growth Stage	9	10	11	12
11 STALWART C	7.8	1.67	PT/A	PRE	0	99	67	68
11 AATREX	4	1.5	QT/A	PRE				
11 CALLISTO	4	5	FL OZ/A	PRE				
12 STALWART XTRA	5.5	2.1	QT/A	PRE	0	95	77	77
12 BALANCE PRO	4	2.25	FL OZ/A	PRE				
13 STALWART XTRA	5.5	1.4	QT/A	PRE	0	98	84	84
13 ROUNDUP ORIGINAL MAX	5.5	22	FL OZ/A	LP				
13 AMS		3.7	% V/V	LP				
14 STALWART XTRA	5.5	1.4	QT/A	PRE	0	98	83	83
14 ROUNDUP ORIGINAL MAX	5.5	22	FL OZ/A	LP				
14 CLARITY	4	1	FL OZ/A	LP				
14 AMS		3.7	% V/V	LP				
LSD (P=.05)					0.0	6.5	13.6	14.0
Standard Deviation					0.0	3.9	8.1	8.3
CV					0.0	4.01	10.12	10.4
Grand Mean					0.0	96.38	79.86	79.98
Replicate F					0.000	1.380	0.082	0.060
Replicate Prob(F)					1.0000	0.2694	0.9215	0.9417
Treatment F					0.000	0.982	4.340	3.955
Treatment Prob(F)					1.0000	0.4931	0.0007	0.0014

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

CORN PREEMERGENCE

Trial ID: C5001

Protocol ID:

Location: LEXINGTON, KY

Study Director: CHARLES H. SLACK

Investigator: Charles H. Slack

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

Pest 3 Type: W **Code:** XANST Xanthium strumarium
Common Name: Common cocklebur

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

Description Name: MAURY
% Sand: 6 **% OM:** 2.7 **Texture:** SILT LOAM
% Silt: 64 **pH:** 6.5 **Soil Name:** MAURY
% Clay: 30 **CEC:** 17 **Fert. Level:** EXCELLENT

Moisture Conditions

Overall Moisture Conditions: NORMAL

Closest Weather Station: SPINDLETOP

Distance: 1.5 **Unit:** MI

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CORN PREEMERGENCE

Trial ID: C5001
Protocol ID:
Location: LEXINGTON, KY

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

Application Description

	A	B	C
Application Date:	5-3-05	5-27-05	5-30-05
Time of Day:	4:30 PM	1 PM	10 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	EP	LP
Application Placement:	BROSOI	BROFOL	BROFOL
Applied By:	C. H. SLACK	C. H. SLACK	C. H. SLACK
Air Temperature, Unit:	55 F	75 F	70 F
% Relative Humidity:	50	20	20
Wind Velocity, Unit:	4 MPH	5 MPH	4 MPH
Wind Direction:	N	N	SW
Soil Temperature, Unit:	56 F	72 F	73 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	20	0	10

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH		
Height, Unit:	9	IN 9	IN

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Disc., Scale:	SETFA W	SETFA W	SETFA W
Height, Unit:	0	IN 4	IN
Pest 2 Code, Disc., Scale:	AMBTR W	AMBTR W	AMBTR W
Height, Unit:	0	IN 6	IN 8
Pest 3 Code, Disc., Scale:	XANST W	XANST W	XANST W
Height, Unit:	0	IN 6	IN 6

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

CORN PREEMERGENCE

Trial ID: C5001
Protocol ID:
Location: LEXINGTON, KY

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

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

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

CORN PREEMERGENCE II

Trial ID: C5002
Protocol ID:
Location: LEXINGTON, KY

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

Pest Type	W Weed		W Weed		W Weed		W Weed		W Weed			
	SETFA	AMBTR	SETFA	AMBTR	SETFA	AMBTR	SETFA	AMBTR	SETFA			
Pest Code	Giant foxtail		Giant Ragweed		Giant foxtail		Giant Ragweed		Giant foxtail			
Pest Name	ZEAMX		ZEAMX		ZEAMX		ZEAMX		ZEAMX			
Crop Code	BCOR		BCOR		BCOR		BCOR		BCOR			
BBCH Scale	Corn		Corn		Corn		Corn		Corn			
Crop Name	INJURY		INJURY		INJURY		INJURY		INJURY			
Rating Data Type	PERCENT		PERCENT		PERCENT		PERCENT		PERCENT			
Rating Unit	1 WEEK		2 WEEK		4 WEEK		4 WEEK		8 WEEK			
Trt-Eval Interval	P		P		P		P		P			
ARM Action Codes	0		0		0		0		0			
Number of Decimals	0		0		0		0		0			
Trt Treatment	Form	Rate	Growth									
No. Name	Conc	Rate	Stage	1	2	3	4	5	6	7	8	9
15 BICEP II MAGNUM	5.5	2.1 QT/A	PRE	0	0	99	98	0	96	93	0	95
15 CALLISTO	4	0.094 QT/A	10C									
15 AATREX	4	0.5 QT/A	10C									
15 COC		1 % V/V	10C									
15 LIQUID N		2 % V/V	10C									
16 CHECK UNTREATED				0	0	0	0	0	0	0	0	0
LSD (P=.05)				0.0	0.0	0.0	5.7	0.0	3.2	11.4	0.0	3.6
Standard Deviation				0.0	0.0	0.0	3.4	0.0	1.9	6.9	0.0	2.2
CV				0.0	0.0	0.0	4.38	0.0	2.27	9.76	0.0	2.57
Grand Mean				0.0	0.0	86.63	78.19	0.0	84.73	70.31	0.0	84.58
Replicate F				0.000	0.000	0.000	2.832	0.000	4.301	4.115	0.000	4.299
Replicate Prob(F)				1.0000	1.0000	1.0000	0.0747	1.0000	0.0228	0.0263	1.0000	0.0228
Treatment F				0.000	0.000	0.000	243.990	0.000	890.856	52.560	0.000	696.342
Treatment Prob(F)				1.0000	1.0000	1.0000	0.0001	1.0000	0.0001	0.0001	1.0000	0.0001

CORN PREEMERGENCE II

Trial ID: C5002

Protocol ID:

Location: LEXINGTON, KY

Study Director: CHARLES H. SLACK

Investigator: Charles H. Slack

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
Trt-Eval Interval	8 WEEK	
ARM Action Codes	P	TY1
Number of Decimals	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	10	13
1	CHECK UNTREATED					0	7
2	LEXAR	3.7	3	QT/A	PRE	77	41
3	LEXAR	3.7	3.5	QT/A	PRE	83	67
4	BICEP II MAGNUM	5.5	2.1	QT/A	PRE	68	45
5	LUMAX	3.94	2.5	QT/A	PRE	55	58
6	LUMAX	3.94	3	QT/A	PRE	82	75
6	PRINCEP	4	1	QT/A	PRE		
7	GUARDSMAN MAX	5	3	PT/A	PRE	58	35
8	HARNESS XTRA	5.6	2	QT/A	PRE	57	36
9	RADIUS	4	20	FL OZ/A	PRE	55	25
10	KEYSTONE	5.25	2.6	QT/A	PRE	67	58
11	LEXAR	3.7	3	QT/A	3C	90	99
11	ACTIVATOR 90		0.25	% V/V	3C		
12	BICEP II MAGNUM	5.5	2.1	QT/A	3C	73	52
12	ACTIVATOR 90		0.25	% V/V	3C		
13	LEXAR	3.7	1.5	QT/A	PRE	90	58
13	PRINCEP	4	1	QT/A	PRE		
13	LEXAR	3.7	1.5	QT/A	3C		
13	ACTIVATOR 90		0.25	% V/V	3C		
14	KEYSTONE	5.25	2.6	QT/A	PRE	82	77
14	HORNET	68.5	4	OZ/A	PRE		

CORN PREEMERGENCE II

Trial ID: C5002
 Protocol ID: Study Director: CHARLES H. SLACK
 Location: LEXINGTON, KY Investigator: Charles H. Slack

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
 Trt-Eval Interval 8 WEEK
 ARM Action Codes P TY1
 Number of Decimals 0 0

Trt Treatment No. Name	Form Conc	Rate Rate	Unit Unit	Growth Stage	10	13
15 BICEP II MAGNUM	5.5	2.1	QT/A	PRE	93	86
15 CALLISTO	4	0.094	QT/A	10C		
15 AATREX	4	0.5	QT/A	10C		
15 COC		1	% V/V	10C		
15 LIQUID N		2	% V/V	10C		
16 CHECK UNTREATED					0	3
LSD (P=.05)					15.1	18.8
Standard Deviation					9.0	11.3
CV					14.04	21.88
Grand Mean					64.33	51.57
Replicate F					3.346	0.936
Replicate Prob(F)					0.0488	0.4035
Treatment F					29.172	16.795
Treatment Prob(F)					0.0001	0.0001

Column 11: TY1 = 4.353032*[12]

CORN PREEMERGENCE II

Trial ID: C5002
Protocol ID:
Location: LEXINGTON, KY

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

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

Description Name: MAURY		
% Sand: 6	% OM: 2.7	Texture: SILT LOAM
% Silt: 64	pH: 6.5	Soil Name: MAURY
% Clay: 30	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:	5-3-05	5-3-05	6-1-05
Time of Day:	3:30 PM	1:30 PM	3:30 PM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	PRE	
Application Placement:	BROSOI	BROSOI	BROFOL
Applied By:	C. H. SLACK	C. H. SLACK	C. H. SLACK
Air Temperature, Unit:	55 F	55 F	78 F
% Relative Humidity:	50	50	50
Wind Velocity, Unit:	4 MPH	4 MPH	4 MPH
Wind Direction:	N	N	SW
Soil Temperature, Unit:	56 F	56 F	70 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	20	20	70

CORN PREEMERGENCE II

Trial ID: C5002
Protocol ID:
Location: LEXINGTON, KY

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

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	
Stage Majority, Percent:	2 LF		5LF			
Height, Unit:	3		IN	10	IN	

Pest Stage At Each Application

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

Application Equipment

	A		B		C	
Appl. Equipment:	ATV		ATV		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	19	IN	25	IN
Ground Speed, Unit:	4	MPH	4	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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CORN PREEMERGENCE & POSTEMERGENCE

Trial ID: C5003
 Protocol ID: Study Director: CHARLES H. SLACK
 Location: LEXINGTON, KY Investigator: Charles H. Slack

Pest Type	ZEAMX		ZEAMX		W Weed		W Weed		W Weed		W Weed		W Weed	
Pest Code	BCOR		BCOR		SETFA		AMBTR		IPOSS		SETFA		AMBTR	
Pest Name	Corn		Corn		Giant foxtail		Giant Ragweed		Morning glory		Giant foxtail		Giant Ragweed	
Crop Code	Corn		Corn		CONTROL		CONTROL		CONTROL		INJURY		CONTROL	
BBCH Scale	Corn		Corn		PERCENT		PERCENT		PERCENT		PERCENT		PERCENT	
Crop Name	Corn		Corn		1 WEEK		2 WEEK		2 WEEK		4 WEEK		4 WEEK	
Rating Data Type	P		P		P		P		P		P		P	
Rating Unit	0		0		0		0		0		0		0	
Trt-Eval Interval	1 WEEK		2 WEEK		2 WEEK		2 WEEK		2 WEEK		4 WEEK		4 WEEK	
ARM Action Codes	P		P		P		P		P		P		P	
Number of Decimals	0		0		0		0		0		0		0	
Trt Treatment	Form	Rate	Rate	Growth										
No. Name	Conc	Rate	Unit	Stage	5	6	7	8	9	10	11	12		
20 BICEP II MAGNUM	5.5	1.4	QT/A	PRE	0	0	99	95	92	0	99	95		
20 TOUCHDOWN TOTAL	4.17	24	FL OZ/A	7W										
20 AMS	100	17	LB A/100 GAL	7W										
21 KEYSTONE	5.25	2.4	QT/A	PRE	0	0	99	93	87	0	98	88		
21 HORNET	68.5	4	OZ/A	PRE										
22 DEFINE	3.99	18	FL OZ/A	PRE	0	0	99	87	86	0	98	82		
22 BALANCE PRO	4	2.1	FL OZ/A	PRE										
22 AATREX	4	2	QT/A	PRE										
23 GUARDSMAN MAX	5	2	QT/A	PRE	0	0	99	92	92	0	98	90		
23 BALANCE PRO	4	2.25	OZ/A	PRE										
24 GUARDSMAN MAX	5	2	QT/A	PRE	0	0	99	98	95	0	99	98		
24 MARKSMAN	3.2	3	QT/A	EP										
LSD (P=.05)					0.0	0.0	4.3	3.9	5.9	0.0	5.1	5.4		
Standard Deviation					0.0	0.0	2.6	2.3	3.6	0.0	3.1	3.3		
CV					0.0	0.0	2.78	2.62	4.19	0.0	3.35	3.72		
Grand Mean					0.0	0.0	93.4	89.74	85.94	0.0	92.38	87.33		
Replicate F					0.000	0.000	5.889	3.996	1.382	0.000	9.284	3.646		
Replicate Prob(F)					1.0000	1.0000	0.0053	0.0251	0.2613	1.0000	0.0004	0.0339		
Treatment F					0.000	0.000	178.609	207.224	80.526	0.000	124.317	107.865		
Treatment Prob(F)					1.0000	1.0000	0.0001	0.0001	0.0001	1.0000	0.0001	0.0001		

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CORN PREEMERGENCE & POSTEMERGENCE

Trial ID: C5003
Protocol ID: Study Director: CHARLES H. SLACK
Location: LEXINGTON, KY Investigator: Charles H. Slack

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	ZEAMX				ZEAMX				
BBCH Scale	BCOR				BCOR				
Crop Name	Corn				Corn				
Rating Data Type	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	YIELD			
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	BU			
Trt-Eval Interval	4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK				
ARM Action Codes	P	P	P	P	P	TY1			
Number of Decimals	0	0	0	0	0	1			
Trt Treatment	Form	Rate	Growth						
No. Name	Conc	Rate	Stage	13	14	15	16	17	21
1 LUMAX	3.94	2.5 QT/A	PRE	80	0	90	77	78	73.7
2 LUMAX	3.94	2.5 QT/A	PRE	83	0	92	77	78	68.6
2 AATREX	4	1 QT/A	PRE						
3 LEXAR	3.7	3 QT/A	PRE	77	0	95	73	73	74.9
4 LEXAR	3.7	3 QT/A	PRE	78	0	94	72	77	74.1
4 PRINCEP	4	1 QT/A	PRE						
5 CAMIX	3.67	1.6 QT/A	EP	87	0	91	78	79	77.3
5 TOUCHDOWN TOTAL	4.17	24 FL OZ/A	EP						
5 AMS	100	17 LB A/100 GAL	EP						
6 LUMAX	3.94	2 QT/A	EP	88	0	96	86	86	81.5
6 TOUCHDOWN TOTAL	4.17	24 FL OZ/A	EP						
6 AMS	100	17 LB A/100 GAL	EP						
7 LEXAR	3.7	2.25 QT/A	EP	92	0	99	96	90	84.9
7 TOUCHDOWN TOTAL	4.17	24 FL OZ/A	4W						
7 AMS	100	17 LB A/100 GAL	4W						
8 CAMIX	3.67	1.6 QT/A	PRE	85	0	99	95	85	86.5
8 TOUCHDOWN TOTAL	4.17	24 FL OZ/A	4W						
8 AMS	100	17 LB A/100 GAL	4W						
9 LUMAX	3.94	2 QT/A	PRE	92	0	99	93	90	88.1
9 TOUCHDOWN TOTAL	4.17	24 FL OZ/A	4W						
9 AMS	100	17 LB A/100 GAL	4W						
10 LUMAX	3.94	2.25 QT/A	PRE	87	0	99	93	86	75.5
10 TOUCHDOWN TOTAL	4.17	24 FL OZ/A	4W						
10 AMS	100	17 LB A/100 GAL	4W						

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CORN PREEMERGENCE & POSTEMERGENCE

Trial ID: C5003
Protocol ID: Study Director: CHARLES H. SLACK
Location: LEXINGTON, KY Investigator: Charles H. Slack

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	ZEAMX				ZEAMX				
BBCH Scale	BCOR				BCOR				
Crop Name	Corn				Corn				
Rating Data Type	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	YIELD			
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	BU			
Trt-Eval Interval	4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK				
ARM Action Codes	P	P	P	P	P	TY1			
Number of Decimals	0	0	0	0	0	1			
Trt Treatment	Form	Rate	Growth						
No. Name	Conc	Rate	Stage	13	14	15	16	17	21
11 DUAL II MAGNUM	7.64	1.33 PT/A	PRE	90	0	92	93	88	92.4
11 CALLISTO	4	3 FL OZ/A	4W						
11 AATREX	4	0.5 QT/A	4W						
11 COC		1 % V/V	4W						
11 LIQUID N		2.5 % V/V	4W						
12 BICEP II MAGNUM	5.5	2.1 QT/A	PRE	93	0	91	98	91	85.5
12 CALLISTO	4	3 FL OZ/A	4W						
12 AATREX	4	0.5 QT/A	4W						
12 COC		1 % V/V	4W						
12 LIQUID N		2.5 % V/V	4W						
13 ROUNDUP WeatherMAX	5.5	22 OZ/A	EP	83	0	88	72	78	57.3
13 AMS	100	17 LB A/100 GAL	EP						
14 ROUNDUP WeatherMAX	5.5	22 OZ/A	4W	85	0	95	88	83	70.2
14 AMS	100	17 LB A/100 GAL	4W						
15 ROUNDUP WeatherMAX	5.5	32 OZ/A	7W	84	0	99	92	82	58.3
15 AMS	100	17 LB A/100 GAL	7W						
16 HARNESS XTRA	5.6	1.5 QT/A	PRE	86	0	99	93	88	83.9
16 ROUNDUP WeatherMAX	5.5	22 OZ/A	7W						
16 AMS	100	17 LB A/100 GAL	7W						
17 ROUNDUP WeatherMAX	5.5	22 OZ/A	EP	89	0	96	98	87	77.9
17 AMS	100	17 LB A/100 GAL	EP						
17 ROUNDUP WeatherMAX	5.5	22 OZ/A	V8						
17 AMS	100	17 LB A/100 GAL	V8						
18 CHECK UNTREATED				0	0	0	0	0	4.5
19 LEXAR	3.7	1.5 QT/A	PRE	92	0	96	89	91	74.6
19 PRINCEP	4	1 QT/A	PRE						
19 LEXAR	3.7	1.5 QT/A	EP						
19 ACTIVATOR 90		0.25 % V/V	EP						

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CORN PREEMERGENCE & POSTEMERGENCE

Trial ID: C5003
Protocol ID: Study Director: CHARLES H. SLACK
Location: LEXINGTON, KY Investigator: Charles H. Slack

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	ZEAMX				ZEAMX				
BBCH Scale	BCOR				BCOR				
Crop Name	Corn				Corn				
Rating Data Type	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	YIELD			
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	BU			
Trt-Eval Interval	4 WEEK	8 WEEK	8 WEEK	8 WEEK	8 WEEK				
ARM Action Codes	P	P	P	P	P	TY1			
Number of Decimals	0	0	0	0	0	1			
Trt Treatment	Form	Rate	Growth						
No. Name	Conc	Rate	Stage	13	14	15	16	17	21
20 BICEP II MAGNUM	5.5	1.4 QT/A	PRE	90	0	99	93	86	63.1
20 TOUCHDOWN TOTAL	4.17	24 FL OZ/A	7W						
20 AMS	100	17 LB A/100 GAL	7W						
21 KEYSTONE	5.25	2.4 QT/A	PRE	82	0	98	82	80	65.4
21 HORNET	68.5	4 OZ/A	PRE						
22 DEFINE	3.99	18 FL OZ/A	PRE	82	0	98	75	77	58.2
22 BALANCE PRO	4	2.1 FL OZ/A	PRE						
22 AATREX	4	2 QT/A	PRE						
23 GUARDSMAN MAX	5	2 QT/A	PRE	86	0	98	85	86	59.1
23 BALANCE PRO	4	2.25 OZ/A	PRE						
24 GUARDSMAN MAX	5	2 QT/A	PRE	95	0	99	96	95	73.4
24 MARKSMAN	3.2	3 QT/A	EP						
LSD (P=.05)				7.8	0.0	5.7	7.9	8.0	16.25
Standard Deviation				4.7	0.0	3.5	4.8	4.9	9.85
CV				5.72	0.0	3.79	5.78	6.04	13.83
Grand Mean				82.65	0.0	91.75	83.07	80.63	71.21
Replicate F				1.790	0.000	13.524	3.996	0.480	6.704
Replicate Prob(F)				0.1784	1.0000	0.0001	0.0251	0.6218	0.0028
Treatment F				44.470	0.000	97.698	50.882	41.229	9.424
Treatment Prob(F)				0.0001	1.0000	0.0001	0.0001	0.0001	0.0001

Column 14: TY1 = 4.353032*[20]

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CORN PREEMERGENCE & POSTEMERGENCE

Trial ID: C5003
Protocol ID:
Location: LEXINGTON, KY

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

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**

Description Name: MAURY
% Sand: 6 **% OM:** 2.7 **Texture:** SILT LOAM
% Silt: 64 **pH:** 6.5 **Soil Name:** MAURY
% Clay: 30 **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	E
Application Date:	5-3-05	5-24-05	6-5-05	6-8-05	6-9-05
Time of Day:	3:30 PM	9 AM	9 AM	9 AM	9 AM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	EP	4W	7W	V8
Application Placement:	BROSOI	BROFOL	BROFOL	BROFOL	BROFOL
Applied By:	C. H. SLACK	C. H. SLACK	C. H. SLACK	C. H. SLACK	C. H. SLACK
Air Temperature, Unit:	55 F	58 F	75 F	77 F	77 F
% Relative Humidity:	50				
Wind Velocity, Unit:	4 MPH	8 MPH	4 MPH	4 MPH	4 MPH
Wind Direction:	N	N			
Soil Temperature, Unit:	56 F	70 F	75 F	78 F	78 F
Soil Moisture:	ADEQUATE	ADEQUATE	INADEQUATE	INADEQUATE	INADEQUATE
% Cloud Cover:	20	40	10	10	10

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CORN PREEMERGENCE & POSTEMERGENCE

Trial ID: C5003
Protocol ID:
Location: LEXINGTON, KY

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

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	
Stage Majority, Percent:	4LF		V8		V8		V8		V8	
Height, Unit:	5		IN 14		IN 15		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
Stage Majority, Percent:	2 LF		4 LF		4 LF		4 LF		4 LF	
Height, Unit:	2		IN 6		IN 6		IN 6		IN	
Pest 2 Code, Disc., Scale:	AMBTR	W	AMBTR	W	AMBTR	W	AMBTR	W	AMBTR	W
Stage Majority, Percent:	4 LF		8 LF		8 LF		8 LF			
Height, Unit:	2		IN 7		IN 8		IN 9		IN	
Pest 3 Code, Disc., Scale:	IPOHE	W	IPOHE	W	IPOHE	W	IPOHE	W	IPOHE	W
Height, Unit:	1		IN 2		IN 2		IN 2		IN	

Application Equipment

	A		B		C		D		E	
Appl. Equipment:	ATV		ATV		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	8002	DG	8002	DG	8004	DG	8004	DG
Nozzle Spacing, Unit:	20	IN	20	IN	20	IN	20	IN	20	IN
Boom Length, Unit:	10	FT	10	FT	10	FT	10	FT	10	FT
Boom Height, Unit:	19	IN	19	IN	25	IN	25	IN	25	IN
Ground Speed, Unit:	4	MPH	4	MPH	3.5	MPH	3.5	MPH	3.5	MPH
Carrier:	WATER		WATER		WATER		WATER		WATER	
Spray Volume:	24		12		12		24		24	
Volume Unit:	GPA		GPA		GPA		GPA		GPA	
Propellant:	CO2		CO2		CO2		CO2		CO2	

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Weed Science Field Research

NO TILL CORN

Trial ID: C5004

Protocol ID:

Location: LEXINGTON, KY

Study Director: CHARLES H. SLACK

Investigator: Charles H. Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	SETFA	STEME	CHEAL	AMBTR	SETFA	STEME				
Pest Name	Giant foxtail	Common chickweed	Lambsquarters,	common Giant Ragweed	Giant foxtail	Common chickweed				
Crop Code					ZEAMX					
BBCH Scale					BCOR					
Crop Name					Corn					
Rating Date										
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL				
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT				
Days After First/Last Applic.										
Trt-Eval Interval	1 WEEK	1 WEEK	1 WEEK	1 WEEK	1WEEK	2 WEEK				
ARM Action Codes	P	P	P	P	P	P				
Number of Decimals	0	0	0	0	0	0				
Trt Treatment	Form	Rate	Growth	1	2	3	4	5	6	7
No. Name	Conc	Rate	Unit	Stage						
1 CHECK UNTREATED					0	0	0	0	0	0
2 GRAMOXONE INTEON	2	40	FL OZ/A	PRE	99	99	99	99	0	99
2 ACTIVATOR 90		0.125	% V/V	PRE						
2 LEXAR	3.7	96	FL OZ/A	3C						
2 ACTIVATOR 90		0.25	% V/V	3C						
3 GRAMOXONE INTEON	2	48	FL OZ/A	PRE	99	99	99	99	0	99
3 ACTIVATOR 90		0.125	% V/V	PRE						
3 LEXAR	3.7	96	FL OZ/A	3C						
3 ACTIVATOR 90		0.25	% V/V	3C						
4 GRAMOXONE INTEON	2	64	FL OZ/A	PRE	99	99	99	99	0	99
4 ACTIVATOR 90		0.125	% V/V	PRE						
4 LEXAR	3.7	96	FL OZ/A	3C						
4 ACTIVATOR 90		0.25	% V/V	3C						
5 GRAMOXONE INTEON	2	40	FL OZ/A	PRE	99	99	99	99	0	99
5 WEEDONE LV4	3.8	16	FL OZ/A	PRE						
5 ACTIVATOR 90		0.125	% V/V	PRE						
5 LEXAR	3.7	96	FL OZ/A	3C						
5 ACTIVATOR 90		0.25	% V/V	3C						
6 GRAMOXONE INTEON	2	48	FL OZ/A	PRE	99	99	99	99	0	99
6 WEEDONE LV4	3.8	16	FL OZ/A	PRE						
6 ACTIVATOR 90		0.125	% V/V	PRE						
6 LEXAR	3.7	96	FL OZ/A	3C						
6 ACTIVATOR 90		0.25	% V/V	3C						
7 GRAMOXONE INTEON	2	64	FL OZ/A	PRE	99	99	99	99	0	99
7 WEEDONE LV4	3.8	16	FL OZ/A	PRE						
7 ACTIVATOR 90		0.125	% V/V	PRE						
7 LEXAR	3.7	96	FL OZ/A	3C						
7 ACTIVATOR 90		0.25	% V/V	3C						

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

NO TILL CORN

Trial ID: C5004

Protocol ID:

Location: LEXINGTON, KY

Study Director: CHARLES H. SLACK

Investigator: Charles H. Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed					
Pest Code	SETFA	STEME	CHEAL	AMBTR	SETFA	STEME					
Pest Name	Giant foxtail	Common chickweed	Lambsquarters,	common Giant Ragweed	Giant foxtail	Common chickweed					
Crop Code					ZEAMX						
BBCH Scale					BCOR						
Crop Name					Corn						
Rating Date											
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL					
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT					
Days After First/Last Applic.											
Trt-Eval Interval	1 WEEK	1 WEEK	1 WEEK	1 WEEK	1WEEK	2 WEEK					
ARM Action Codes	P	P	P	P	P	P					
Number of Decimals	0	0	0	0	0	0					
Trt Treatment	Form	Rate	Growth	1	2	3	4	5	6	7	
No. Name	Conc	Rate	Unit	Stage							
8 GRAMOXONE INTEON	2	40	FL OZ/A	PRE	99	99	99	99	0	99	99
8 LEXAR	3.7	96	FL OZ/A	PRE							
8 ACTIVATOR 90		0.125	% V/V	PRE							
9 GRAMOXONE INTEON	2	48	FL OZ/A	PRE	99	99	99	99	0	99	99
9 LEXAR	3.7	96	FL OZ/A	PRE							
9 ACTIVATOR 90		0.125	% V/V	PRE							
10 GRAMOXONE INTEON	2	64	FL OZ/A	PRE	99	99	99	99	0	99	99
10 LEXAR	3.7	96	FL OZ/A	PRE							
10 ACTIVATOR 90		0.125	% V/V	PRE							
11 ROUNDUP WeatherMAX	5.5	22	FL OZ/A	PRE	99	99	99	99	0	99	99
11 DEGREE XTRA	4.04	96	FL OZ/A	PRE							
12 GRAMOXONE INTEON	2	40	FL OZ/A	PRE	99	99	99	99	0	99	99
12 LEXAR	3.7	96	FL OZ/A	PRE							
12 AATREX	4	1	QT/A	PRE							
12 ACTIVATOR 90		0.125	% V/V	PRE							
13 TOUCHDOWN TOTAL	4.17	24	FL OZ/A	PRE	99	99	99	99	0	99	99
13 LEXAR	3.7	3	QT/A	PRE							
14 GRAMOXONE INTEON	2	48	FL OZ/A	PRE	99	99	99	99	0	99	99
14 BICEP II MAGNUM	5.5	2.1	QT/A	PRE							
14 ACTIVATOR 90		0.125	% V/V	PRE							
LSD (P=.05)					0.0	0.0	0.0	0.0	0.0	0.0	0.0
Standard Deviation					0.0	0.0	0.0	0.0	0.0	0.0	0.0
CV					0.0	0.0	0.0	0.0	0.0	0.0	0.0
Grand Mean					91.93	91.93	91.93	91.93	0.0	91.93	91.93

Dept. of Agronomy, Univ. of Ky
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NO TILL CORN

Trial ID: C5004
Protocol ID: Study Director: CHARLES H. SLACK
Location: LEXINGTON, KY Investigator: Charles H. Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	AMBTR	SETFA	AMBTR	SETFA	AMBTR	AMBTR
Pest Name	Lambsquarters, common	Giant Ragweed	Giant foxtail	Giant Ragweed	Giant foxtail	Giant Ragweed	Giant Ragweed
Crop Code							
BBCH Scale							
Crop Name							
Rating Date							
Rating Data Type	CONTROL	CONTROL	INJURY	INJURY	INJURY	INJURY	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Days After First/Last Applic.							
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK
ARM Action Codes	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0

Trt Treatment No. Name	Form Conc	Rate Rate	Growth Unit	Stage	8	9	10	11	12	13	14	15
8 GRAMOXONE INTEON	2	40	FL OZ/A	PRE	99	99	0	91	87	0	83	78
8 LEXAR	3.7	96	FL OZ/A	PRE								
8 ACTIVATOR 90		0.125	% V/V	PRE								
9 GRAMOXONE INTEON	2	48	FL OZ/A	PRE	99	99	0	89	83	0	82	73
9 LEXAR	3.7	96	FL OZ/A	PRE								
9 ACTIVATOR 90		0.125	% V/V	PRE								
10 GRAMOXONE INTEON	2	64	FL OZ/A	PRE	99	99	0	89	88	0	77	88
10 LEXAR	3.7	96	FL OZ/A	PRE								
10 ACTIVATOR 90		0.125	% V/V	PRE								
11 ROUNDUP WeatherMAX	5.5	22	FL OZ/A	PRE	99	99	0	80	77	0	65	72
11 DEGREE XTRA	4.04	96	FL OZ/A	PRE								
12 GRAMOXONE INTEON	2	40	FL OZ/A	PRE	99	99	0	92	95	0	82	92
12 LEXAR	3.7	96	FL OZ/A	PRE								
12 AATREX	4	1	QT/A	PRE								
12 ACTIVATOR 90		0.125	% V/V	PRE								
13 TOUCHDOWN TOTAL	4.17	24	FL OZ/A	PRE	99	99	0	85	85	0	68	77
13 LEXAR	3.7	3	QT/A	PRE								
14 GRAMOXONE INTEON	2	48	FL OZ/A	PRE	99	99	0	86	94	0	70	90
14 BICEP II MAGNUM	5.5	2.1	QT/A	PRE								
14 ACTIVATOR 90		0.125	% V/V	PRE								
LSD (P=.05)		0.0			0.0	0.0	0.0	13.3	8.9	0.0	20.0	12.5
Standard Deviation		0.0			0.0	0.0	0.0	7.9	5.3	0.0	11.9	7.4
CV		0.0			0.0	0.0	0.0	9.43	6.21	0.0	16.32	9.21
Grand Mean					91.93	91.93	0.0	83.74	85.14	0.0	73.1	80.74

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NO TILL CORN

Trial ID: C5004

Protocol ID:

Study Director: CHARLES H. SLACK

Location: LEXINGTON, KY

Investigator: Charles H. Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	CHEAL	AMBTR		SETFA	AMBTR		SETFA	AMBTR			
Pest Name	Lambsquarters, common	Giant Ragweed		Giant foxtail	Giant Ragweed		Giant foxtail	Giant Ragweed			
Crop Code			ZEAMX			ZEAMX					
BBCH Scale			BCOR			BCOR					
Crop Name			Corn			Corn					
Rating Date											
Rating Data Type	CONTROL	CONTROL	INJURY	INJURY	INJURY	INJURY	INJURY	INJURY	INJURY		
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT		
Days After First/Last Applic.											
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK		
ARM Action Codes	P	P	P	P	P	P	P	P	P		
Number of Decimals	0	0	0	0	0	0	0	0	0		
Trt Treatment No. Name	Form Conc	Rate Rate	Growth Stage	8	9	10	11	12	13	14	15
Replicate F				0.000	0.000	0.000	1.841	3.897	0.000	1.327	1.603
Replicate Prob(F)				1.0000	1.0000	1.0000	0.1788	0.0331	1.0000	0.2827	0.2205
Treatment F				0.000	0.000	0.000	28.857	69.494	0.000	10.240	33.093
Treatment Prob(F)				1.0000	1.0000	1.0000	0.0001	0.0001	1.0000	0.0001	0.0001

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NO TILL CORN

Trial ID: C5004
Protocol ID: Study Director: CHARLES H. SLACK
Location: LEXINGTON, KY Investigator: Charles H. Slack

Pest Type		W Weed	W Weed	
Pest Code		SETFA	AMBTR	
Pest Name		Giant foxtail	Giant Ragweed	
Crop Code	ZEAMX			ZEAMX
BBCH Scale	BCOR			BCOR
Crop Name	Corn			Corn
Rating Date				9-15-05
Rating Data Type	INJURY	INJURY	INJURY	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	BU
Days After First/Last Applic.				134 121
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	
ARM Action Codes	P	P	P	TY1
Number of Decimals	0	0	0	1

Trt No.	Treatment Name	Form	Rate	Growth Stage	16	17	18	22
1	CHECK UNTREATED				0	0	0	34.0
2	GRAMOXONE INTEON	2	40 FL OZ/A	PRE	0	77	93	84.0
2	ACTIVATOR 90		0.125 % V/V	PRE				
2	LEXAR	3.7	96 FL OZ/A	3C				
2	ACTIVATOR 90		0.25 % V/V	3C				
3	GRAMOXONE INTEON	2	48 FL OZ/A	PRE	0	83	95	86.5
3	ACTIVATOR 90		0.125 % V/V	PRE				
3	LEXAR	3.7	96 FL OZ/A	3C				
3	ACTIVATOR 90		0.25 % V/V	3C				
4	GRAMOXONE INTEON	2	64 FL OZ/A	PRE	0	78	90	83.6
4	ACTIVATOR 90		0.125 % V/V	PRE				
4	LEXAR	3.7	96 FL OZ/A	3C				
4	ACTIVATOR 90		0.25 % V/V	3C				
5	GRAMOXONE INTEON	2	40 FL OZ/A	PRE	0	73	91	81.6
5	WEEDONE LV4	3.8	16 FL OZ/A	PRE				
5	ACTIVATOR 90		0.125 % V/V	PRE				
5	LEXAR	3.7	96 FL OZ/A	3C				
5	ACTIVATOR 90		0.25 % V/V	3C				
6	GRAMOXONE INTEON	2	48 FL OZ/A	PRE	0	78	95	74.6
6	WEEDONE LV4	3.8	16 FL OZ/A	PRE				
6	ACTIVATOR 90		0.125 % V/V	PRE				
6	LEXAR	3.7	96 FL OZ/A	3C				
6	ACTIVATOR 90		0.25 % V/V	3C				
7	GRAMOXONE INTEON	2	64 FL OZ/A	PRE	0	73	92	92.3
7	WEEDONE LV4	3.8	16 FL OZ/A	PRE				
7	ACTIVATOR 90		0.125 % V/V	PRE				
7	LEXAR	3.7	96 FL OZ/A	3C				
7	ACTIVATOR 90		0.25 % V/V	3C				

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

NO TILL CORN

Trial ID: C5004
Protocol ID: Study Director: CHARLES H. SLACK
Location: LEXINGTON, KY Investigator: Charles H. Slack

Pest Type		W Weed	W Weed	
Pest Code		SETFA	AMBTR	
Pest Name		Giant foxtail	Giant Ragweed	
Crop Code	ZEAMX			ZEAMX
BBCH Scale	BCOR			BCOR
Crop Name	Corn			Corn
Rating Date				9-15-05
Rating Data Type	INJURY	INJURY	INJURY	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	BU
Days After First/Last Applic.				134 121
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 No. Name	Form Conc	Rate Rate	Growth Unit	Stage	16	17	18	22
8 GRAMOXONE INTEON	2	40	FL OZ/A	PRE	0	82	68	74.2
8 LEXAR	3.7	96	FL OZ/A	PRE				
8 ACTIVATOR 90		0.125	% V/V	PRE				
9 GRAMOXONE INTEON	2	48	FL OZ/A	PRE	0	55	50	69.1
9 LEXAR	3.7	96	FL OZ/A	PRE				
9 ACTIVATOR 90		0.125	% V/V	PRE				
10 GRAMOXONE INTEON	2	64	FL OZ/A	PRE	0	77	88	85.0
10 LEXAR	3.7	96	FL OZ/A	PRE				
10 ACTIVATOR 90		0.125	% V/V	PRE				
11 ROUNDUP WeatherMAX	5.5	22	FL OZ/A	PRE	0	65	72	86.5
11 DEGREE XTRA	4.04	96	FL OZ/A	PRE				
12 GRAMOXONE INTEON	2	40	FL OZ/A	PRE	0	77	92	73.4
12 LEXAR	3.7	96	FL OZ/A	PRE				
12 AATREX	4	1	QT/A	PRE				
12 ACTIVATOR 90		0.125	% V/V	PRE				
13 TOUCHDOWN TOTAL	4.17	24	FL OZ/A	PRE	0	68	73	89.2
13 LEXAR	3.7	3	QT/A	PRE				
14 GRAMOXONE INTEON	2	48	FL OZ/A	PRE	0	67	90	77.0
14 BICEP II MAGNUM	5.5	2.1	QT/A	PRE				
14 ACTIVATOR 90		0.125	% V/V	PRE				
LSD (P=.05)					0.0	28.7	24.6	22.93
Standard Deviation					0.0	17.1	14.7	13.66
CV					0.0	25.1	18.87	17.53
Grand Mean					0.0	68.05	77.69	77.93

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

NO TILL CORN

Trial ID: C5004
Protocol ID:
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
BBCH Scale	BCOR			BCOR
Crop Name	Corn			Corn
Rating Date				9-15-05
Rating Data Type	INJURY	INJURY	INJURY	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	BU
Days After First/Last Applic.				134 121
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 No. Name	Form Conc	Rate Rate	Growth Unit	Stage	16	17	18	22
Replicate F					0.000	2.608	1.186	2.183
Replicate Prob(F)					1.0000	0.0928	0.3215	0.1329
Treatment F					0.000	4.509	9.375	3.300
Treatment Prob(F)					1.0000	0.0005	0.0001	0.0046

Column 19: TY1 = 3.948636*[C20]

Dept. of Agronomy, Univ. of Ky
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NO TILL CORN

Trial ID: C5004

Protocol ID:

Location: LEXINGTON, KY

Study Director: CHARLES H. SLACK

Investigator: Charles H. Slack

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: 44 FT **Tillage Type:** NO-TILL
Replications: 3 **Study Design:** Randomized Complete Block

Trial Initiation Comments:

Field Prep./Maintenance:

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.7 **Texture:** SILT LOAM
% Silt: 64 **pH:** 6.5 **Soil Name:** MAURY
% Clay: 30 **CEC:** 17 **Fert. Level:** EXCELLENT

Moisture Conditions

Overall Moisture Conditions: BELOW NORMAL

Closest Weather Station: SPINDLETOP

Distance: 1.5 **Unit:** MI

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

NO TILL CORN

Trial ID: C5004
Protocol ID:
Location: LEXINGTON, KY

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

Application Description

	A	B
Application Date:	5-4-05	5-17-05
Time of Day:	4:30 PM	1:30 PM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	3C
Application Placement:	BROSOI	BROSOI
Applied By:	C. H. SLACK	C. H. SLACK
Air Temperature, Unit:	55 F	55 F
% Relative Humidity:	50	50
Wind Velocity, Unit:	4 MPH	6 MPH
Wind Direction:	N	N
Soil Temperature, Unit:	56 F	56 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	
Stage Majority, Percent:			2	LF
Height, Unit:			3	IN

Pest Stage At Each Application

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

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

NO TILL CORN

Trial ID: C5004
Protocol ID:
Location: LEXINGTON, KY

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

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
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CORN PREEMERGENCE V

Trial ID: C5005
Protocol ID:
Location: LEXINGTON, KY

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

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	SETFA	ABUTH	AMBTR	SETFA	ABUTH	AMBTR	SETFA	ABUTH			
Pest Name	Giant foxtail	Velvetleaf	Giant Ragweed	Giant foxtail	Velvetleaf	Giant Ragweed	Giant foxtail	Velvetleaf			
Crop Code	ZEAMX		ZEAMX		ZEAMX		ZEAMX				
BBCH Scale	BCOR		BCOR		BCOR		BCOR				
Crop Name	Corn		Corn		Corn		Corn				
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL			
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT			
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK			
ARM Action Codes	P	P	P	P	P	P	P	P			
Number of Decimals	0	0	0	0	0	0	0	0			
Trt Treatment	Form	Rate	Growth	1	2	3	4	5	6	7	8
No. Name	Conc	Rate	Stage								
1 CHECK UNTREATED				0	0	0	0	0	0	0	0
2 KIH-485	60	0.112 LB	A/A PRE	0	88	83	57	0	68	67	43
3 KIH-485	60	0.1489 LB	A/A PRE	0	98	96	77	0	89	88	63
4 KIH-485	60	0.186 LB	A/A PRE	0	98	93	69	0	85	85	50
5 KIH-485	60	0.296 LB	A/A PRE	0	99	99	82	0	89	91	67
6 DUAL II MAGNUM	7.64	1.27 LB	A/A PRE	0	98	90	70	0	89	78	57
7 HARNESS	7	1.55 LB	A/A PRE	0	90	83	70	0	82	75	60
8 HARNESS	7	1.99 LB	A/A PRE	0	99	95	70	0	93	88	63
9 KIH-485/ATRAZINE	57.8	1.097 LB	A/A PRE	0	91	91	83	0	72	77	63
10 BICEP LITE II MAGNUM	6	1.67 LB	A/A PRE	0	89	86	73	0	75	78	63
11 BICEP II MAGNUM	5.5	2.2 LB	A/A PRE	0	93	93	78	0	72	83	62
LSD (P=.05)				0.0	4.2	6.4	12.4	0.0	10.0	9.6	19.6
Standard Deviation				0.0	2.5	3.8	7.3	0.0	5.9	5.6	11.5
CV				0.0	2.88	4.54	10.95	0.0	7.95	7.64	21.38
Grand Mean				0.0	85.64	82.7	66.3	0.0	74.03	73.67	53.79
Replicate F				0.000	0.463	0.478	2.061	0.000	3.286	0.073	3.545
Replicate Prob(F)				1.0000	0.6359	0.6267	0.1535	1.0000	0.0584	0.9302	0.0481
Treatment F				0.000	406.490	165.495	30.518	0.000	58.607	61.163	8.292
Treatment Prob(F)				1.0000	0.0001	0.0001	0.0001	1.0000	0.0001	0.0001	0.0001

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CORN PREEMERGENCE V

Trial ID: C5005
 Protocol ID: Study Director: CHARLES H. SLACK
 Location: LEXINGTON, KY Investigator: Charles H. Slack

Pest Type W Weed
 Pest Code SETFA
 Pest Name Giant foxtail
 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 No. Name	Form Conc	Rate Rate	Growth Unit	Stage Stage	
					9

1	CHECK UNTREATED				0
2	KIH-485	60	0.112 LB	A/A PRE	68
3	KIH-485	60	0.1489 LB	A/A PRE	89
4	KIH-485	60	0.186 LB	A/A PRE	85
5	KIH-485	60	0.296 LB	A/A PRE	89
6	DUAL II MAGNUM	7.64	1.27 LB	A/A PRE	89
7	HARNESS	7	1.55 LB	A/A PRE	82
8	HARNESS	7	1.99 LB	A/A PRE	93
9	KIH-485/ATRAZINE	57.8	1.097 LB	A/A PRE	72
10	BICEP LITE II MAGNUM	6	1.67 LB	A/A PRE	75
11	BICEP II MAGNUM	5.5	2.2 LB	A/A PRE	72

LSD (P=.05) 10.0
 Standard Deviation 5.9
 CV 7.95
 Grand Mean 74.03

Replicate F 3.286
 Replicate Prob(F) 0.0584
 Treatment F 58.607
 Treatment Prob(F) 0.0001

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CORN PREEMERGENCE V

Trial ID: C5005
Protocol ID:
Location: LEXINGTON, KY

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

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**

Description Name: MAURY		
% Sand: 6	% OM: 2.7	Texture: SILT LOAM
% Silt: 64	pH: 6.5	Soil Name: MAURY
% Clay: 30	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:	4-28-05
Time of Day:	2 PM
Application Method:	SPRAY
Application Timing:	PRE
Application Placement:	BROSOI
Applied By:	C. H. SLACK
Air Temperature, Unit:	59 F
% Relative Humidity:	80
Wind Velocity, Unit:	6 MPH
Wind Direction:	SW
Soil Temperature, Unit:	52 F
Soil Moisture:	ADEQUATE
% Cloud Cover:	90

CORN PREEMERGENCE V

Trial ID: C5005
Protocol ID:
Location: LEXINGTON, KY

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

Crop Stage At Each Application

A

Crop 1 Code, BBCH Scale: ZEAMX BCOR

Pest Stage At Each Application

A

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

Trial ID: C5006
Protocol ID:
Location: LEXINGTON, KY

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

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	
Pest Code	SETFA	ABUTH	AMBTR	SETFA	ABUTH	AMBTR	SETFA	ABUTH	AMBTR	
Pest Name	Giant foxtail Velvetleaf Giant Ragweed			Giant foxtail Velvetleaf Giant Ragweed			Giant foxtail Velvetleaf Giant Ragweed			
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	Form	Rate	Growth	1	2	3	4	5	6	7	8	9
No. Name	Conc	Rate	Stage									
1 CHECK UNTREATED				0	0	0	0	0	0	0	0	0
2 KIH-485	60	0.148 LB	A/A PRE	0	99	94	73	0	88	79	53	0
3 KIH-485	60	0.186 LB	A/A PRE	0	99	93	60	0	93	82	50	0
4 KIH-485	60	0.223 LB	A/A PRE	0	99	99	82	0	92	86	68	0
5 KIH-485	60	0.373 LB	A/A PRE	0	99	99	83	0	98	94	65	0
6 DUAL II MAGNUM	7.64	1.59 LB	A/A PRE	0	99	86	80	0	95	70	63	0
7 HARNESS	7	1.55 LB	A/A PRE	0	99	92	74	0	93	78	61	0
8 HARNESS	7	1.99 LB	A/A PRE	0	99	90	75	0	93	73	57	0
9 KIH-485/ATRAZINE	57.8	1.378 LB	A/A PRE	0	99	95	87	0	99	83	70	0
10 BICEP LITE II MAGNUM	6	2.28 LB	A/A PRE	0	99	85	60	0	95	72	43	0
11 BICEP II MAGNUM	5.5	2.87 LB	A/A PRE	0	99	89	73	0	91	73	50	0
LSD (P=.05)				0.0	0.0	10.4	19.8	0.0	6.1	14.9	25.9	0.0
Standard Deviation				0.0	0.0	6.1	11.6	0.0	3.6	8.7	15.2	0.0
CV				0.0	0.0	7.3	17.07	0.0	4.24	12.15	28.78	0.0
Grand Mean				0.0	90.0	83.85	67.97	0.0	85.18	71.79	52.82	0.0
Replicate F				0.000	0.000	0.161	2.545	0.000	0.216	0.862	2.508	0.000
Replicate Prob(F)				1.0000	1.0000	0.8524	0.1036	1.0000	0.8072	0.4374	0.1067	1.0000
Treatment F				0.000	0.000	63.541	12.958	0.000	186.131	24.308	4.899	0.000
Treatment Prob(F)				1.0000	1.0000	0.0001	0.0001	1.0000	0.0001	0.0001	0.0012	1.0000

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CORN PREEMERGENCE VI

Trial ID: C5006
Protocol ID:
Location: LEXINGTON, KY

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

Pest Type	W Weed	W Weed	W Weed
Pest Code	SETFA	ABUTH	AMBTR
Pest Name	Giant foxtail	Velvetleaf	Giant Ragweed
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	Form Conc	Rate Rate	Growth Unit Stage	10	11	12
1 CHECK UNTREATED				0	0	0
2 KIH-485	60	0.148	LB A/A PRE	88	79	40
3 KIH-485	60	0.186	LB A/A PRE	93	82	37
4 KIH-485	60	0.223	LB A/A PRE	92	86	58
5 KIH-485	60	0.373	LB A/A PRE	98	94	57
6 DUAL II MAGNUM	7.64	1.59	LB A/A PRE	95	70	53
7 HARNESS	7	1.55	LB A/A PRE	93	78	53
8 HARNESS	7	1.99	LB A/A PRE	93	73	50
9 KIH-485/ATRAZINE	57.8	1.378	LB A/A PRE	99	83	60
10 BICEP LITE II MAGNUM	6	2.28	LB A/A PRE	95	72	37
11 BICEP II MAGNUM	5.5	2.87	LB A/A PRE	91	73	43
LSD (P=.05)				6.1	14.9	22.9
Standard Deviation				3.6	8.7	13.4
CV				4.24	12.15	30.28
Grand Mean				85.18	71.79	44.39
Replicate F				0.216	0.862	1.940
Replicate Prob(F)				0.8072	0.4374	0.1697
Treatment F				186.131	24.308	4.797
Treatment Prob(F)				0.0001	0.0001	0.0014

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CORN PREEMERGENCE VI

Trial ID: C5006
Protocol ID:
Location: LEXINGTON, KY

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

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**

Description Name: LANTON		
% 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:	4-25-05
Time of Day:	3:30 PM
Application Method:	SPRAY
Application Timing:	PRE
Application Placement:	BROSOI
Applied By:	C. H. SLACK
Air Temperature, Unit:	76 F
% Relative Humidity:	45
Wind Velocity, Unit:	4 MPH
Wind Direction:	N
Soil Temperature, Unit:	58 F
Soil Moisture:	ADEQUATE
% Cloud Cover:	20

CORN PREEMERGENCE VI

Trial ID: C5006
Protocol ID:
Location: LEXINGTON, KY

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

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
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: 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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CORN EARLY PREPLANT, PREEMERGENCE & POSTEMERGENCE

Trial ID: C5007
Protocol ID: Study Director: CHARLES H. SLACK
Location: LEXINGTON, KY Investigator: Charles H. Slack

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

Trt Treatment No. Name	Form Conc	Rate Rate	Unit Unit	Growth Stage	1	2	3	4	5	6	7	8	
16 BASIS	75	0.33	OZ/A	4WK	0	99	94		94	88	0	92	91
16 AATREX	4	1	LB A/A	4WK									
16 COC		1	QT/A	4WK									
16 ROUNDUP WeatherMAX	5.5	22	FL OZ/A	V3									
16 AMS		2	% V/V	V3									
17 BASIS	75	1	OZ/A	4WK	0	99	93		93	88	0	92	89
17 AATREX	4	1	LB A/A	4WK									
17 COC		1	QT/A	4WK									
17 ROUNDUP WeatherMAX	5.5	22	FL OZ/A	V3									
17 AMS		2	% V/V	V3									
18 BASIS	75	0.66	OZ/A	4WK	0	99	95		93	88	0	93	93
18 AATREX	4	1	LB A/A	4WK									
18 COC		1	QT/A	4WK									
18 ROUNDUP WeatherMAX	5.5	22	FL OZ/A	V3									
18 AMS		2	% V/V	V3									
LSD (P=.05)					0.0	0.9	4.2		5.3	7.9	0.0	5.9	6.4
Standard Deviation					0.0	0.5	2.5		3.2	4.8	0.0	3.5	3.8
CV					0.0	0.55	2.63		3.3	5.27	0.0	3.83	4.1
Grand Mean					0.0	98.93	96.89		95.8	90.28	0.0	91.57	93.89
Replicate F					0.000	1.000	4.964		5.951	10.359	0.000	8.448	0.552
Replicate Prob(F)					1.0000	0.3784	0.0128		0.0061	0.0003	1.0000	0.0011	0.5809
Treatment F					0.000	1.000	1.404		1.378	1.123	0.000	1.393	1.201
Treatment Prob(F)					1.0000	0.4813	0.1950		0.2076	0.3737	1.0000	0.2003	0.3148

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CORN EARLY PREPLANT, PREEMERGENCE & POSTEMERGENCE

Trial ID: C5007
Protocol ID: Study Director: CHARLES H. SLACK
Location: LEXINGTON, KY Investigator: Charles H. Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	IPOSS	SETFA	AMBTR	CHEAL	IPOSS
Pest Name	Lambsquarters, common	Morning glory	Giant foxtail	Giant Ragweed	Lambsquarters, common	Morning glory
Crop Code			ZEAMX			
BBCH Scale			BCOR			
Crop Name			Corn			
Rating Data Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	4 WEEK	4 WEEK	8 WEEK	8 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	Form	Rate	Growth	9	10	11	12	13	14	15	
No. Name	Conc	Rate	Unit	Stage							
1 ROUNDUP WeatherMAX	5.5	22	FL OZ/A	V3	90	85	0	78	92	90	75
1 AMS		2	% V/V	V3							
2 ROUNDUP WeatherMAX	5.5	22	FL OZ/A	V3	94	83	0	85	96	94	73
2 RIMSULFURON	25	1	OZ/A	V3							
2 AMS		2	% V/V	V3							
3 ROUNDUP WeatherMAX	5.5	22	FL OZ/A	V3	89	85	0	84	93	89	77
3 RIMSULFURON	25	1	OZ/A	V3							
3 THIFENSULFURON	75	0.06	OZ/A	V3							
3 AMS		2	% V/V	V3							
4 ROUNDUP WeatherMAX	5.5	22	FL OZ/A	V3	88	84	0	87	93	88	80
4 RIMSULFURON	25	1	OZ/A	V3							
4 BANVEL	4	2	FL OZ/A	V3							
4 AMS		2	% V/V	V3							
5 ROUNDUP WeatherMAX	5.5	22	FL OZ/A	V3	96	85	0	78	98	96	75
5 RIMSULFURON	25	1	OZ/A	V3							
5 AATREX	4	1	LB A/A	V3							
5 AMS		2	% V/V	V3							
6 ROUNDUP WeatherMAX	5.5	22	FL OZ/A	V3	88	89	0	88	95	87	83
6 HARNESS	7	1.5	PT/A	V3							
6 AMS		2	% V/V	V3							
7 STEADFAST ATZ	89.3	14	OZ/A	V3	95	83	0	75	94	95	77
7 CALLISTO	4	1.5	FL OZ/A	V3							
7 COC		1	QT/A	V3							
7 AMS		2	% V/V	V3							
8 BASIS	75	0.33	OZ/A	PRE	88	83	0	80	91	88	80
8 COC		1	QT/A	PRE							
8 ROUNDUP WeatherMAX	5.5	22	FL OZ/A	V3							
8 AMS		2	% V/V	V3							

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CORN EARLY PREPLANT, PREEMERGENCE & POSTEMERGENCE

Trial ID: C5007
 Protocol ID: Study Director: CHARLES H. SLACK
 Location: LEXINGTON, KY Investigator: Charles H. Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	IPOSS	SETFA	AMBTR	CHEAL	IPOSS
Pest Name	Lambsquarters, common	Morning glory	Giant foxtail	Giant Ragweed	Lambsquarters, common	Morning glory
Crop Code			ZEAMX			
BBCH Scale			BCOR			
Crop Name			Corn			
Rating Data Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	4 WEEK	4 WEEK	8 WEEK	8 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 No. Name	Form Conc	Rate Rate	Unit Unit	Growth Stage	9	10	11	12	13	14	15
9 BASIS	75	0.66	OZ/A	PRE	88	73	0	89	92	88	63
9 COC			1 QT/A	PRE							
9 ROUNDUP WeatherMAX	5.5	22	FL OZ/A	V3							
9 AMS			2 % V/V	V3							
10 BASIS	75	1	OZ/A	PRE	96	79	0	83	93	96	75
10 COC			1 QT/A	PRE							
10 ROUNDUP WeatherMAX	5.5	22	FL OZ/A	V3							
10 AMS			2 % V/V	V3							
11 BASIS	75	0.33	OZ/A	PRE	96	77	0	91	92	96	72
11 AATREX	4	1	LB A/A	PRE							
11 COC			1 QT/A	PRE							
11 ROUNDUP WeatherMAX	5.5	22	FL OZ/A	V3							
11 AMS			2 % V/V	V3							
12 BASIS	75	0.66	OZ/A	PRE	95	80	0	85	89	95	73
12 AATREX	4	1	LB A/A	PRE							
12 COC			1 QT/A	PRE							
12 ROUNDUP WeatherMAX	5.5	22	FL OZ/A	V3							
12 AMS			2 % V/V	V3							
13 BASIS	75	1	OZ/A	PRE	95	81	0	89	96	95	76
13 AATREX	4	1	LB A/A	PRE							
13 COC			1 QT/A	PRE							
13 ROUNDUP WeatherMAX	5.5	22	FL OZ/A	V3							
13 AMS			2 % V/V	V3							
14 HARNESS XTRA	5.6	3	PT/A	PRE	91	85	0	90	92	91	78
14 ROUNDUP WeatherMAX	5.5	22	FL OZ/A	V3							
14 AMS			2 % V/V	V3							
15 CINCH ATZ	5.5	1.5	PT/A	PRE	96	83	0	89	93	96	78
15 STEADFAST ATZ	89.3	14	OZ/A	V3							
15 COC			1 QT/A	V3							
15 AMS			2 % V/V	V3							

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CORN EARLY PREPLANT, PREEMERGENCE & POSTEMERGENCE

Trial ID: C5007
 Protocol ID: Study Director: CHARLES H. SLACK
 Location: LEXINGTON, KY Investigator: Charles H. Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	IPOSS	SETFA	AMBTR	CHEAL	IPOSS
Pest Name	Lambsquarters, common	Morning glory	Giant foxtail	Giant Ragweed	Lambsquarters, common	Morning glory
Crop Code			ZEAMX			
BBCH Scale			BCOR			
Crop Name			Corn			
Rating Data Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	4 WEEK	4 WEEK	8 WEEK	8 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	Form	Rate	Growth	9	10	11	12	13	14	15	
No. Name	Conc	Rate	Unit	Stage							
16 BASIS	75	0.33	OZ/A	4WK	93	82	0	87	90	92	80
16 AATREX	4	1	LB A/A	4WK							
16 COC		1	QT/A	4WK							
16 ROUNDUP WeatherMAX	5.5	22	FL OZ/A	V3							
16 AMS		2	% V/V	V3							
17 BASIS	75	1	OZ/A	4WK	93	84	0	90	88	91	82
17 AATREX	4	1	LB A/A	4WK							
17 COC		1	QT/A	4WK							
17 ROUNDUP WeatherMAX	5.5	22	FL OZ/A	V3							
17 AMS		2	% V/V	V3							
18 BASIS	75	0.66	OZ/A	4WK	90	85	0	88	92	88	82
18 AATREX	4	1	LB A/A	4WK							
18 COC		1	QT/A	4WK							
18 ROUNDUP WeatherMAX	5.5	22	FL OZ/A	V3							
18 AMS		2	% V/V	V3							
LSD (P=.05)		6.3				10.9	0.0	8.7	7.6	6.7	13.7
Standard Deviation		3.8				6.5	0.0	5.2	4.5	4.0	8.2
CV		4.08				7.89	0.0	6.13	4.89	4.34	10.74
Grand Mean		92.37				82.52	0.0	85.43	92.67	92.04	76.63
Replicate F		4.761				4.327	0.000	11.430	0.521	5.415	2.546
Replicate Prob(F)		0.0150				0.0212	1.0000	0.0002	0.5984	0.0091	0.0932
Treatment F		2.134				0.918	0.000	2.488	0.925	2.186	0.956
Treatment Prob(F)		0.0294				0.5611	1.0000	0.0116	0.5542	0.0256	0.5236

Dept. of Agronomy, Univ. of Ky
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CORN EARLY PREPLANT, PREEMERGENCE & POSTEMERGENCE

Trial ID: C5007
Protocol ID: Study Director: CHARLES H. SLACK
Location: LEXINGTON, KY Investigator: Charles H. Slack

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:** Split-Block

Trial Initiation Comments:

Field Prep./Maintenance:

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.7 **Texture:** SILT LOAM
% Silt: 64 **pH:** 6.5 **Soil Name:** MAURY
% Clay: 30 **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:	4-5-05	4-26-05	5-25-05
Time of Day:	4:30 PM	1:30 PM	4:30 PM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	4 WK	PRE	V3
Application Placement:	BROSOI	BROSOI	BROFOL
Applied By:	C. H. SLACK	C. H. SLACK	C. H. SLACK
Air Temperature, Unit:	55 F	55 F	80 F
% Relative Humidity:	50	50	40
Wind Velocity, Unit:	4 MPH	6 MPH	4 MPH
Wind Direction:	N	N	SW
Soil Temperature, Unit:	56 F	56 F	78 F
Soil Moisture:	ADEQUATE	ADEQUATE	INADEQUATE
% Cloud Cover:	20	20	10

CORN EARLY PREPLANT, PREEMERGENCE & POSTEMERGENCE

Trial ID: C5007
 Protocol ID: Study Director: CHARLES H. SLACK
 Location: LEXINGTON, KY Investigator: Charles H. Slack

Crop Stage At Each Application

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

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Disc., Scale:	SETFA W	SETFA W	SETFA W
Stage Majority, Percent:	4 IN		
Pest 2 Code, Disc., Scale:	AMBTR W	AMBTR W	AMBTR W
Stage Majority, Percent:	6 IN		
Pest 3 Code, Disc., Scale:	CHEAL W	CHEAL W	CHEAL W
Stage Majority, Percent:	4 IN		
Pest 4 Code, Disc., Scale:	IPOSS W	IPOSS W	IPOSS W
Stage Majority, Percent:	2 IN		

Application Equipment

	A	B	C
Appl. Equipment:	ATV	ATV	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	19 IN	25 IN
Ground Speed, Unit:	4 MPH	4 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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CORN PREEMERGENCE VII

Trial ID: C5008
Protocol ID:
Location: LEXINGTON, KY

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

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	SETFA	AMBTR	IPOSS	SETFA	AMBTR	IPOSS	SETFA	AMBTR	IPOSS			
Pest Name	Giant foxtail	Giant Ragweed	Morning glory	Giant foxtail	Giant Ragweed	Morning glory	Giant foxtail	Giant Ragweed	Morning glory			
Crop Code	ZEAMX			ZEAMX			ZEAMX		ZEAMX			
BBCH Scale	BCOR			BCOR			BCOR		BCOR			
Crop Name	Corn			Corn			Corn		Corn			
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	INJURY			
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT			
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK			
ARM Action Codes	P	P	P	P	P	P	P	P	P			
Number of Decimals	0	0	0	0	0	0	0	0	0			
Trt Treatment No. Name	Form Conc	Rate Rate	Growth Unit Stage	1	2	3	4	5	6	7	8	9
8 CALLISTO	4	0.094 LB	A/A MP	12	99	99	99	0	88	93	92	0
8 ACCENT	75	0.031 LB	A/A MP									
8 AATREX	4	0.5 LB	A/A MP									
8 MSO		1 %	V/V MP									
8 LIQUID N		2.5 %	V/V MP									
LSD (P=.05)				6.4	0.0	3.2	5.5	0.0	5.2	6.3	7.9	0.0
Standard Deviation				3.7	0.0	1.8	3.1	0.0	3.0	3.6	4.5	0.0
CV				252.34	0.0	2.14	3.67	0.0	3.63	4.71	5.85	0.0
Grand Mean				1.46	86.63	84.46	84.71	0.0	81.79	76.21	76.71	0.0
Replicate F				1.000	0.000	1.232	1.295	0.000	8.057	7.155	4.968	0.000
Replicate Prob(F)				0.3927	1.0000	0.3214	0.3048	1.0000	0.0047	0.0072	0.0234	1.0000
Treatment F				3.769	0.000	1088.231	370.168	0.000	373.196	240.746	149.767	0.000
Treatment Prob(F)				0.0166	1.0000	0.0001	0.0001	1.0000	0.0001	0.0001	0.0001	1.0000

CORN PREEMERGENCE VII

Trial ID: C5008
Protocol ID:
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			
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 No.	Treatment Name	Form	Rate	Unit	Growth Stage	10	11	12
1	CHECK UNTREATED					0	0	0
2	BICEP II MAGNUM	5.5	2.2	LB A/A	PRE	95	45	65
3	BICEP II MAGNUM	5.5	2.2	LB A/A	PRE	95	84	83
3	IMPACT	2.8	0.016	LB A/A	MP			
3	AATREX	4	0.5	LB A/A	MP			
3	MSO		1	% V/V	MP			
3	LIQUID N		2.5	% V/V	MP			
4	BICEP II MAGNUM	5.5	2.2	LB A/A	PRE	96	86	90
4	IMPACT	2.8	0.022	LB A/A	MP			
4	AATREX	4	0.5	LB A/A	MP			
4	MSO		1	% V/V	MP			
4	LIQUID N		2.5	% V/V	MP			
5	BICEP II MAGNUM	5.5	2.2	LB A/A	PRE	91	93	92
5	CALLISTO	4	0.094	LB A/A	MP			
5	AATREX	4	0.25	LB A/A	MP			
5	COC		1	% V/V	MP			
5	LIQUID N		2.5	% V/V	MP			
6	BICEP II MAGNUM	5.5	2.2	LB A/A	PRE	93	86	92
6	DISTINCT	70	0.175	LB A/A	MP			
6	ACTIVATOR 90		0.25	% V/V	MP			
6	LIQUID N		1.25	% V/V	MP			
7	IMPACT	2.8	0.016	LB A/A	MP	93	83	87
7	ACCENT	75	0.031	LB A/A	MP			
7	AATREX	4	0.5	LB A/A	MP			
7	MSO		1	% V/V	MP			
7	LIQUID N		2.5	% V/V	MP			

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CORN PREEMERGENCE VII

Trial ID: C5008
Protocol ID:
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			
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	Form Conc	Rate Rate	Growth Unit Stage	10	11	12
8 CALLISTO	4	0.094 LB	A/A MP	88	86	88
8 ACCENT	75	0.031 LB	A/A MP			
8 AATREX	4	0.5 LB	A/A MP			
8 MSO		1 %	V/V MP			
8 LIQUID N		2.5 %	V/V MP			
LSD (P=.05)				5.2	8.3	13.6
Standard Deviation				3.0	4.7	7.8
CV				3.65	6.69	10.47
Grand Mean				81.38	70.5	74.42
Replicate F				9.566	6.145	3.338
Replicate Prob(F)				0.0024	0.0121	0.0653
Treatment F				369.234	139.267	48.411
Treatment Prob(F)				0.0001	0.0001	0.0001

CORN PREEMERGENCE VII

Trial ID: C5008
 Protocol ID:
 Location: LEXINGTON, KY

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

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**

Description Name: MAURY		
% Sand: 6	% OM: 2.7	Texture: SILT LOAM
% Silt: 64	pH: 6.5	Soil Name: MAURY
% Clay: 30	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:	5-3-05	5-27-05
Time of Day:	3 PM	1:30 PM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	MP
Application Placement:	BROSOI	BROFOL
Applied By:	C. H. SLACK	C. H. SLACK
Air Temperature, Unit:	55 F	75 F
% Relative Humidity:	50	30
Wind Velocity, Unit:	4 MPH	5 MPH
Wind Direction:	N	N
Soil Temperature, Unit:	56 F	72 F
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	20	0

CORN PREEMERGENCE VII

Trial ID: C5008
 Protocol ID:
 Location: LEXINGTON, KY

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

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		V3
Height, Unit:	8	IN

Pest Stage At Each Application

	A	B
Pest 1 Code, Disc., Scale:	SETFA W	SETFA W
Stage Majority, Percent:		2 LF
Height, Unit:		2 IN
Pest 2 Code, Disc., Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:		6 LF
Height, Unit:		4 IN
Pest 3 Code, Disc., Scale:	IPOSS W	IPOSS W
Stage Majority, Percent:		COD
Height, Unit:		1 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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CORN POSTEMERGENCE

Trial ID: C5009

Protocol ID:

Location: LEXINGTON, KY

Study Director: CHARLES H. SLACK

Investigator: Charles H. Slack

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

Trt No.	Treatment Name	Form Conc	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9
1	STEADFAST	75	0.75	OZ/A	V3	0	99	97	96	0	96	88	88	0
1	LEXAR	3.7	28.8	FL OZ/A	V3									
1	ACTIVATOR 90		0.25	% V/V	V3									
1	AMS	100	17	LB/100 GAL	V3									
2	STEADFAST	75	0.75	OZ/A	V3	0	99	96	98	0	92	88	88	0
2	LEXAR	3.7	57.6	FL OZ/A	V3									
2	ACTIVATOR 90		0.25	% V/V	V3									
2	AMS	100	17	LB/100 GAL	V3									
3	STEADFAST	75	0.75	OZ/A	V3	0	99	93	96	0	91	86	83	0
3	LUMAX	3.94	24	FL OZ/A	V3									
3	ACTIVATOR 90		0.25	% V/V	V3									
3	AMS	100	17	LB/100 GAL	V3									
4	STEADFAST	75	0.75	OZ/A	V3	0	98	95	96	0	89	89	89	0
4	LUMAX	3.94	48	FL OZ/A	V3									
4	ACTIVATOR 90		0.25	% V/V	V3									
4	AMS	100	17	LB/100 GAL	V3									
5	CINCH ATZ	5.5	1	QT/A	PRE	0	99	95	95	0	98	85	85	0
5	STEADFAST	75	0.75	OZ/A	V3									
5	CALLISTO	4	2	FL OZ/A	V3									
5	DISTINCT	70	2	OZ/A	V3									
5	ACTIVATOR 90		0.125	% V/V	V3									
6	KEYSTONE	5.25	1.33	QT/A	PRE	0	99	93	95	0	98	83	83	0
6	AATREX	4	0.5	QT/A	PRE									
6	LIGHTNING	70	1.28	OZ/A	V3									
6	COC		1	QT/A	V3									
6	LIQUID N		2	QT/A	V3									
	LSD (P=.05)		0.0			0.0	1.7	3.2	3.2	0.0	5.7	4.1	5.7	0.0
	Standard Deviation		0.0			0.0	0.9	1.7	1.7	0.0	3.1	2.3	3.1	0.0
	CV		0.0			0.0	0.95	1.83	1.81	0.0	3.35	2.63	3.62	0.0
	Grand Mean		0.0			0.0	98.78	95.0	96.11	0.0	94.06	86.5	85.94	0.0

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CORN POSTEMERGENCE

Trial ID: C5009
Protocol ID:
Location: LEXINGTON, KY

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

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	SETFA	AMBTR	IPOSS	SETFA	AMBTR	IPOSS	SETFA	AMBTR	IPOSS			
Pest Name	Giant foxtail	Giant Ragweed	Morning glory	Giant foxtail	Giant Ragweed	Morning glory	Giant foxtail	Giant Ragweed	Morning glory			
Crop Code	ZEAMX			ZEAMX			ZEAMX		ZEAMX			
BBCH Scale	BCOR			BCOR			BCOR		BCOR			
Crop Name	Corn			Corn			Corn		Corn			
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	INJURY			
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT			
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK			
ARM Action Codes	P	P	P	P	P	P	P	P	P			
Number of Decimals	0	0	0	0	0	0	0	0	0			
Trt Treatment No. Name	Form Conc Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8	9
Replicate F				0.000	1.000	10.385	2.059	0.000	1.517	4.742	0.765	0.000
Replicate Prob(F)				1.0000	0.4019	0.0036	0.1783	1.0000	0.2658	0.0356	0.4906	1.0000
Treatment F				0.000	1.000	2.549	1.000	0.000	3.983	2.703	1.732	0.000
Treatment Prob(F)				1.0000	0.4651	0.0975	0.4651	1.0000	0.0300	0.0849	0.2149	1.0000

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CORN POSTEMERGENCE

Trial ID: C5009
Protocol ID:
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			
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 No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	10	11	12
1	STEADFAST	75	0.75	OZ/A	V3	95	75	82
1	LEXAR	3.7	28.8	FL OZ/A	V3			
1	ACTIVATOR 90		0.25	% V/V	V3			
1	AMS	100	17	LB/100 GAL	V3			
2	STEADFAST	75	0.75	OZ/A	V3	92	80	82
2	LEXAR	3.7	57.6	FL OZ/A	V3			
2	ACTIVATOR 90		0.25	% V/V	V3			
2	AMS	100	17	LB/100 GAL	V3			
3	STEADFAST	75	0.75	OZ/A	V3	88	73	80
3	LUMAX	3.94	24	FL OZ/A	V3			
3	ACTIVATOR 90		0.25	% V/V	V3			
3	AMS	100	17	LB/100 GAL	V3			
4	STEADFAST	75	0.75	OZ/A	V3	89	78	82
4	LUMAX	3.94	48	FL OZ/A	V3			
4	ACTIVATOR 90		0.25	% V/V	V3			
4	AMS	100	17	LB/100 GAL	V3			
5	CINCH ATZ	5.5	1	QT/A	PRE	98	73	77
5	STEADFAST	75	0.75	OZ/A	V3			
5	CALLISTO	4	2	FL OZ/A	V3			
5	DISTINCT	70	2	OZ/A	V3			
5	ACTIVATOR 90		0.125	% V/V	V3			
6	KEYSTONE	5.25	1.33	QT/A	PRE	98	70	73
6	AATREX	4	0.5	QT/A	PRE			
6	LIGHTNING	70	1.28	OZ/A	V3			
6	COC		1	QT/A	V3			
6	LIQUID N		2	QT/A	V3			
LSD (P=.05)						7.4	9.5	9.2
Standard Deviation						4.0	5.2	5.1
CV						4.34	6.99	6.42
Grand Mean						93.28	75.0	79.17

CORN POSTEMERGENCE

Trial ID: C5009
Protocol ID:
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			
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.	Treatment Name	Form Conc	Rate Rate	Unit	Growth Stage	10	11	12
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Replicate F	1.386	3.182	1.452
Replicate Prob(F)	0.2941	0.0852	0.2796
Treatment F	3.225	1.455	1.387
Treatment Prob(F)	0.0543	0.2867	0.3078

CORN POSTEMERGENCE

Trial ID: C5009
 Protocol ID:
 Location: LEXINGTON, KY

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

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**

Description Name: MAURY		
% Sand: 6	% OM: 2.7	Texture: SILT LOAM
% Silt: 64	pH: 6.5	Soil Name: MAURY
% Clay: 30	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:	5-3-05	5-25-05
Time of Day:	2 PM	3 PM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	V3
Application Placement:	BROSOI	BROFOL
Applied By:	C. H. SLACK	C. H. SLACK
Air Temperature, Unit:	55 F	68 F
% Relative Humidity:	50	50
Wind Velocity, Unit:	4 MPH	4 MPH
Wind Direction:	N	SW
Soil Temperature, Unit:	56 F	65 F
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	20	10

CORN POSTEMERGENCE

Trial ID: C5009
 Protocol ID:
 Location: LEXINGTON, KY

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

Crop Stage At Each Application

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

Pest Stage At Each Application

	A	B
Pest 1 Code, Disc., Scale:	SETFA W	SETFA W
Stage Majority, Percent:		2 LF
Height, Unit:		3 IN
Pest 2 Code, Disc., Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:		4 LF
Height, Unit:		3 IN
Pest 3 Code, Disc., Scale:	IPOSS W	IPOSS W
Stage Majority, Percent:		4 LF
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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CORN PREEMERGENCE & POSTEMERGENCE LIBERTY

Trial ID: C5010
 Protocol ID: Study Director: CHARLES H. SLACK
 Location: LEXINGTON, KY Investigator: Charles H. Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed					
Pest Code	SETFA	AMBTR	IPOSS	CHEAL	SETFA					
Pest Name	Giant foxtail Giant Ragweed Morning glory Lambsquarters, common				Giant foxtail					
Crop Code	ZEAMX		ZEAMX							
BBCH Scale	BCOR		BCOR							
Crop Name	Corn		Corn							
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	4 WEEK					
ARM Action Codes	P	P	P	P	P					
Number of Decimals	0	0	0	0	0					
Trt Treatment	Form	Rate	Growth							
No. Name	Conc	Rate	Stage	1	2	3	4	5	6	7
1 CHECK UNTREATED				0	0	0	0	0	0	0
2 RADIUS	4	21 OZ/A	PRE	0	99	70	77	95	0	99
3 RADIUS	4	18 OZ/A	PRE	0	99	91	96	98	0	96
3 AATREX	4	1.5 QT/A	PRE							
4 RADIUS	4	21 OZ/A	PRE	0	99	91	95	96	0	98
4 AATREX	4	1.5 QT/A	PRE							
5 BALANCE PRO	4	2.25 OZ/A	PRE	0	99	320	88	95	0	99
5 AATREX	4	0.75 QT/A	PRE							
5 PRINCEP	4	0.75 QT/A	PRE							
6 BALANCE PRO	4	1.5 OZ/A	PRE	0	99	99	99	99	0	96
6 LIBERTY	1.67	32 OZ/A	MP							
6 AATREX	4	1 QT/A	MP							
6 AMS	100	3 LB A/A	MP							
7 BALANCE PRO	4	1.5 OZ/A	PRE	0	99	96	98	99	0	95
7 AATREX	4	1 QT/A	PRE							
7 OPTION CORN HERBICIDE	70	1.5 OZ/A	MP							
7 MSO		1.5 PT/A	MP							
7 LIQUID N		1.5 QT/A	MP							
8 RADIUS	4	10 OZ/A	PRE	0	99	99	99	99	0	96
8 LIBERTY	1.67	32 OZ/A	MP							
8 AATREX	4	1 QT/A	MP							
8 AMS	100	3 LB A/A	MP							
9 RADIUS	4	10 OZ/A	PRE	0	99	95	96	99	0	95
9 EQUIP CORN HERBICIDE	32	1.5 OZ/A	MP							
9 MSO		1.5 PT/A	MP							
9 LIQUID N		1.5 QT/A	MP							

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CORN PREEMERGENCE & POSTEMERGENCE LIBERTY

Trial ID: C5010
 Protocol ID: Study Director: CHARLES H. SLACK
 Location: LEXINGTON, KY Investigator: Charles H. Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	IPOSS	CHEAL	SETFA
Pest Name	Giant foxtail Giant Ragweed Morning glory Lambsquarters, common				Giant foxtail
Crop Code	ZEAMX				ZEAMX
BBCH Scale	BCOR				BCOR
Crop Name	Corn				Corn
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	4 WEEK
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt Treatment	Form	Rate	Growth	1	2	3	4	5	6	7
No. Name	Conc	Rate	Stage							
10 BALANCE PRO	4	1.5 OZ/A	PRE	0	99	95	96	98	0	90
10 EQUIP CORN HERBICIDE	32	1.5 OZ/A	MP							
10 DISTINCT	70	2 OZ/A	MP							
10 MSO		1 PT/A	MP							
10 LIQUID N		1.5 QT/A	MP							
11 DEFINE	3.99	21 OZ/A	PRE	3	99	99	99	99	0	96
11 BUCTRIL/ATRA	3	3 PT/A	MP							
12 LIBERTY	1.67	32 OZ/A	MP	0	99	99	99	99	0	89
12 AATREX	4	1 QT/A	MP							
12 CALLISTO	4	1 OZ/A	MP							
12 AMS	100	3 LB A/A	MP							
13 DEFINE	3.99	8 OZ/A	EP	0	99	98	99	99	0	88
13 LIBERTY	1.67	32 OZ/A	EP							
13 AATREX	4	1 QT/A	EP							
13 AMS	100	3 LB A/A	EP							
14 DEFINE	3.99	10 OZ/A	EP	0	99	98	99	99	0	90
14 EQUIP CORN HERBICIDE	32	1.5 OZ/A	EP							
14 DISTINCT	70	2 OZ/A	EP							
14 MSO		1.5 PT/A	EP							
14 LIQUID N		1.5 QT/A	EP							
15 LEXAR	3.7	3 QT/A	PRE	0	99	91	93	98	0	92
16 LUMAX	3.94	2.5 QT/A	PRE	0	99	85	95	98	0	88
LSD (P=.05)				2.4	0.0	173.7	5.1	2.2	0.0	7.6
Standard Deviation				1.4	0.0	104.2	3.0	1.3	0.0	4.6
CV				692.82	0.0	102.54	3.41	1.42	0.0	5.2
Grand Mean				0.21	92.81	101.63	89.27	91.81	0.0	87.9

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CORN PREEMERGENCE & POSTEMERGENCE LIBERTY

Trial ID: C5010
 Protocol ID: Study Director: CHARLES H. SLACK
 Location: LEXINGTON, KY Investigator: Charles H. Slack

Trt Treatment No. Name	Form Conc	Rate Rate	Growth Unit Stage	1	2	3	4	5	6	7	
Replicate F				1.000	0.000	0.988	2.326		0.584	0.000	0.588
Replicate Prob(F)				0.3798	1.0000	0.3841	0.1151		0.5637	1.0000	0.5617
Treatment F				1.000	0.000	1.104	194.354		1054.363	0.000	81.044
Treatment Prob(F)				0.4801	1.0000	0.3935	0.0001		0.0001	1.0000	0.0001

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CORN PREEMERGENCE & POSTEMERGENCE LIBERTY

Trial ID: C5010
 Protocol ID: Study Director: CHARLES H. SLACK
 Location: LEXINGTON, KY Investigator: Charles H. Slack

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

Trt No.	Treatment Name	Form	Rate	Growth Stage	8	9	10	11	12	13	14
1	CHECK UNTREATED				0	0	0	0	0	0	0
2	RADIUS	4	21 OZ/A	PRE	40	52	92	0	99	27	52
3	RADIUS	4	18 OZ/A	PRE	70	87	93	0	96	58	78
3	AATREX	4	1.5 QT/A	PRE							
4	RADIUS	4	21 OZ/A	PRE	75	88	93	0	98	60	80
4	AATREX	4	1.5 QT/A	PRE							
5	BALANCE PRO	4	2.25 OZ/A	PRE	58	81	93	0	99	38	73
5	AATREX	4	0.75 QT/A	PRE							
5	PRINCEP	4	0.75 QT/A	PRE							
6	BALANCE PRO	4	1.5 OZ/A	PRE	92	92	98	0	95	87	87
6	LIBERTY	1.67	32 OZ/A	MP							
6	AATREX	4	1 QT/A	MP							
6	AMS	100	3 LB A/A	MP							
7	BALANCE PRO	4	1.5 OZ/A	PRE	87	86	96	0	94	83	83
7	AATREX	4	1 QT/A	PRE							
7	OPTION CORN HERBICIDE	70	1.5 OZ/A	MP							
7	MSO		1.5 PT/A	MP							
7	LIQUID N		1.5 QT/A	MP							
8	RADIUS	4	10 OZ/A	PRE	95	93	96	0	95	89	87
8	LIBERTY	1.67	32 OZ/A	MP							
8	AATREX	4	1 QT/A	MP							
8	AMS	100	3 LB A/A	MP							
9	RADIUS	4	10 OZ/A	PRE	89	87	98	0	93	85	83
9	EQUIP CORN HERBICIDE	32	1.5 OZ/A	MP							
9	MSO		1.5 PT/A	MP							
9	LIQUID N		1.5 QT/A	MP							

CORN PREEMERGENCE & POSTEMERGENCE LIBERTY

Trial ID: C5010
Protocol ID: Study Director: CHARLES H. SLACK
Location: LEXINGTON, KY Investigator: Charles H. Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	IPOSS	CHEAL	SETFA	AMBTR	IPOSS
Pest Name	Giant Ragweed	Morning glory	Lambsquarters, common	Giant foxtail	Giant Ragweed	Morning glory
Crop Code				ZEAMX		
BBCH Scale				BCOR		
Crop Name				Corn		
Rating Data Type	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	4 WEEK	4 WEEK	4 WEEK	8 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 No. Name	Form Conc	Rate Rate Unit	Growth Stage	8	9	10	11	12	13	14	
10 BALANCE PRO	4	1.5 OZ/A	PRE	89	87		95	0	90	85	84
10 EQUIP CORN HERBICIDE	32	1.5 OZ/A	MP								
10 DISTINCT	70	2 OZ/A	MP								
10 MSO		1 PT/A	MP								
10 LIQUID N		1.5 QT/A	MP								
11 DEFINE	3.99	21 OZ/A	PRE	92	85		96	0	93	86	83
11 BUCTRIL/ATRA	3	3 PT/A	MP								
12 LIBERTY	1.67	32 OZ/A	MP	93	93		98	0	89	89	89
12 AATREX	4	1 QT/A	MP								
12 CALLISTO	4	1 OZ/A	MP								
12 AMS	100	3 LB A/A	MP								
13 DEFINE	3.99	8 OZ/A	EP	87	83		98	0	87	78	82
13 LIBERTY	1.67	32 OZ/A	EP								
13 AATREX	4	1 QT/A	EP								
13 AMS	100	3 LB A/A	EP								
14 DEFINE	3.99	10 OZ/A	EP	83	80		92	0	90	75	80
14 EQUIP CORN HERBICIDE	32	1.5 OZ/A	EP								
14 DISTINCT	70	2 OZ/A	EP								
14 MSO		1.5 PT/A	EP								
14 LIQUID N		1.5 QT/A	EP								
15 LEXAR	3.7	3 QT/A	PRE	78	80		96	0	91	70	78
16 LUMAX	3.94	2.5 QT/A	PRE	75	83		95	0	88	68	77
LSD (P=.05)				14.6	12.5		4.4	0.0	8.0	20.2	12.6
Standard Deviation				8.7	7.5		2.6	0.0	4.8	12.1	7.6
CV				11.63	9.56		2.92	0.0	5.51	17.98	10.13
Grand Mean				75.21	78.52		89.38	0.0	87.23	67.48	74.79

CORN PREEMERGENCE & POSTEMERGENCE LIBERTY

Trial ID: C5010
 Protocol ID: Study Director: CHARLES H. SLACK
 Location: LEXINGTON, KY Investigator: Charles H. Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	IPOSS	CHEAL	SETFA	AMBTR	IPOSS
Pest Name	Giant Ragweed	Morning glory	Lambsquarters, common	Giant foxtail	Giant Ragweed	Morning glory
Crop Code				ZEAMX		
BBCH Scale				BCOR		
Crop Name				Corn		
Rating Data Type	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	4 WEEK	4 WEEK	4 WEEK	8 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	Form	Rate	Growth							
No. Name	Conc	Rate	Stage	8	9	10	11	12	13	14

Replicate F	0.544	3.421	1.163	0.000	0.635	0.755	3.148
Replicate Prob(F)	0.5858	0.0459	0.3263	1.0000	0.5370	0.4789	0.0574
Treatment F	24.047	28.161	251.403	0.000	72.224	13.492	24.597
Treatment Prob(F)	0.0001	0.0001	0.0001	1.0000	0.0001	0.0001	0.0001

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CORN PREEMERGENCE & POSTEMERGENCE LIBERTY

Trial ID: C5010
 Protocol ID: Study Director: CHARLES H. SLACK
 Location: LEXINGTON, KY Investigator: Charles H. Slack

Pest Type W Weed
 Pest Code CHEAL
 Pest Name Lambsquarters, common
 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 No.	Treatment Name	Form	Rate	Unit	Growth Stage	15
1	CHECK UNTREATED					0
2	RADIUS	4	21	OZ/A	PRE	92
3	RADIUS	4	18	OZ/A	PRE	93
3	AATREX	4	1.5	QT/A	PRE	
4	RADIUS	4	21	OZ/A	PRE	93
4	AATREX	4	1.5	QT/A	PRE	
5	BALANCE PRO	4	2.25	OZ/A	PRE	93
5	AATREX	4	0.75	QT/A	PRE	
5	PRINCEP	4	0.75	QT/A	PRE	
6	BALANCE PRO	4	1.5	OZ/A	PRE	98
6	LIBERTY	1.67	32	OZ/A	MP	
6	AATREX	4	1	QT/A	MP	
6	AMS	100	3	LB A/A	MP	
7	BALANCE PRO	4	1.5	OZ/A	PRE	96
7	AATREX	4	1	QT/A	PRE	
7	OPTION CORN HERBICIDE	70	1.5	OZ/A	MP	
7	MSO		1.5	PT/A	MP	
7	LIQUID N		1.5	QT/A	MP	
8	RADIUS	4	10	OZ/A	PRE	96
8	LIBERTY	1.67	32	OZ/A	MP	
8	AATREX	4	1	QT/A	MP	
8	AMS	100	3	LB A/A	MP	
9	RADIUS	4	10	OZ/A	PRE	98
9	EQUIP CORN HERBICIDE	32	1.5	OZ/A	MP	
9	MSO		1.5	PT/A	MP	
9	LIQUID N		1.5	QT/A	MP	

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CORN PREEMERGENCE & POSTEMERGENCE LIBERTY

Trial ID: C5010
Protocol ID: Study Director: CHARLES H. SLACK
Location: LEXINGTON, KY Investigator: Charles H. Slack

Pest Type W Weed
Pest Code CHEAL
Pest Name Lambsquarters, common
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 No.	Treatment Name	Form	Rate	Unit	Growth Stage	
						15
10	BALANCE PRO	4	1.5	OZ/A	PRE	95
10	EQUIP CORN HERBICIDE	32	1.5	OZ/A	MP	
10	DISTINCT	70	2	OZ/A	MP	
10	MSO		1	PT/A	MP	
10	LIQUID N		1.5	QT/A	MP	
11	DEFINE	3.99	21	OZ/A	PRE	96
11	BUCTRIL/ATRA	3	3	PT/A	MP	
12	LIBERTY	1.67	32	OZ/A	MP	98
12	AATREX	4	1	QT/A	MP	
12	CALLISTO	4	1	OZ/A	MP	
12	AMS	100	3	LB A/A	MP	
13	DEFINE	3.99	8	OZ/A	EP	98
13	LIBERTY	1.67	32	OZ/A	EP	
13	AATREX	4	1	QT/A	EP	
13	AMS	100	3	LB A/A	EP	
14	DEFINE	3.99	10	OZ/A	EP	90
14	EQUIP CORN HERBICIDE	32	1.5	OZ/A	EP	
14	DISTINCT	70	2	OZ/A	EP	
14	MSO		1.5	PT/A	EP	
14	LIQUID N		1.5	QT/A	EP	
15	LEXAR	3.7	3	QT/A	PRE	96
16	LUMAX	3.94	2.5	QT/A	PRE	95
	LSD (P=.05)					5.5
	Standard Deviation					3.3
	CV					3.67
	Grand Mean					89.21

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CORN PREEMERGENCE & POSTEMERGENCE LIBERTY

Trial ID: C5010
 Protocol ID: Study Director: CHARLES H. SLACK
 Location: LEXINGTON, KY Investigator: Charles H. Slack

Pest Type W Weed
 Pest Code CHEAL
 Pest Name Lambsquarters, common
 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	Form	Rate	Growth	
No. Name	Conc	Rate	Unit	Stage
				15

Replicate F 0.539
 Replicate Prob(F) 0.5888
 Treatment F 160.157
 Treatment Prob(F) 0.0001

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CORN PREEMERGENCE & POSTEMERGENCE LIBERTY

Trial ID: C5010
Protocol ID: Study Director: CHARLES H. SLACK
Location: LEXINGTON, KY Investigator: Charles H. Slack

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

Description Name: MAURY
% Sand: 6 **% OM:** 2.7 **Texture:** SILT LOAM
% Silt: 64 **pH:** 6.5 **Soil Name:** MAURY
% Clay: 30 **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:	5-3-05	5-24-05	5-27-05
Time of Day:	2 PM	9 AM	1 PM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	EP	MP
Application Placement:	BROSOI	BROFOL	BROFOL
Applied By:	C. H. SLACK	C. H. SLACK	C. H. SLACK
Air Temperature, Unit:	55 F	58 F	75 F
% Relative Humidity:	50		
Wind Velocity, Unit:	4 MPH	8 MPH	4 MPH
Wind Direction:	N	N	N
Soil Temperature, Unit:	56 F	70 F	72 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	20	40	0

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CORN PREEMERGENCE & POSTEMERGENCE LIBERTY

Trial ID: C5010
Protocol ID:
Location: LEXINGTON, KY

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

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	
Stage Majority, Percent:	3 LF		4 LF		4 LF	
Height, Unit:	5		IN 7		IN	

Pest Stage At Each Application

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

Application Equipment

	A		B		C	
Appl. Equipment:	ATV		ATV		BACKPACK	
Operating Pressure:	30		30		30	
Pressure Unit:	PSI		PSI		PSI	
Nozzle Type:	FLAT	FAN	FLAT	FAN	FLAT	FAN
Nozzle Size:	8004	DG	8002	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	3.5	MPH
Carrier:	WATER		WATER		WATER	
Spray Volume:	24		12		24	
Volume Unit:	GPA		GPA		GPA	
Propellant:	CO2		CO2		CO2	

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CORN PREEMERGENCE & POSTEMERGENCE II

Trial ID: C5011
 Protocol ID: Study Director: CHARLES H. SLACK
 Location: LEXINGTON, KY Investigator: Charles H. Slack

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

Trt Treatment	Form	Rate	Growth										
No. Name	Conc	Rate	Stage	1	2	3	4	5	6	7	8	9	
1 CHECK UNTREATED				0	0	0	0	0	0	0	0	0	
2 KIH-485	60	0.074 LB	A/A PRE	0	99	93	0	99	99	0	99	99	
2 ROUNDUP WeatherMAX	5.5	0.78 LB	A/A V3										
2 AMS		3.7 % V/V	V3										
3 KIH-485	60	0.148 LB	A/A PRE	0	99	96	0	99	99	0	99	99	
3 ROUNDUP WeatherMAX	5.5	0.78 LB	A/A V3										
3 AMS		3.7 % V/V	V3										
4 KIH-485	60	0.148 LB	A/A V3	0	96	96	0	98	99	0	98	99	
4 ROUNDUP WeatherMAX	5.5	0.78 LB	A/A V3										
4 AMS		3.7 % V/V	V3										
5 ROUNDUP WeatherMAX	5.5	0.78 LB	A/A V3	0	96	93	0	98	99	0	98	99	
5 AMS		3.7 % V/V	V3										
6 HARNESS	7	0.774 LB	A/A V3	0	99	96	0	99	99	0	99	99	
6 ROUNDUP WeatherMAX	5.5	0.78 LB	A/A V3										
6 AMS		3.7 % V/V	V3										
LSD (P=.05)				0.0	4.9	8.1	0.0	2.2	0.0	0.0	2.2	0.0	
Standard Deviation				0.0	2.7	4.4	0.0	1.2	0.0	0.0	1.2	0.0	
CV				0.0	3.29	5.63	0.0	1.45	0.0	0.0	1.45	0.0	
Grand Mean				0.0	81.5	79.06	0.0	82.06	82.5	0.0	82.06	82.5	
Replicate F				0.000	2.500	0.727	0.000	2.500	0.000	0.000	2.500	0.000	
Replicate Prob(F)				1.0000	0.1317	0.5072	1.0000	0.1317	1.0000	1.0000	0.1317	1.0000	
Treatment F				0.000	665.125	227.747	0.000	3409.539	0.000	0.000	3409.539	0.000	
Treatment Prob(F)				1.0000	0.0001	0.0001	1.0000	0.0001	1.0000	1.0000	0.0001	1.0000	

CORN PREEMERGENCE & POSTEMERGENCE II

Trial ID: C5011
Protocol ID:
Location: LEXINGTON, KY

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

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

Description Name: MAURY
% Sand: 6 % OM: 2.7 **Texture:** SILT LOAM
% Silt: 64 pH: 6.5 **Soil Name:** MAURY
% Clay: 30 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:	4-25-05	5-25-05
Time of Day:	3:30 PM	10.00 AM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	V3
Application Placement:	BROSIOI	BROFOL
Applied By:	C. H. SLACK	C. H. SLACK
Air Temperature, Unit:	76 F	65 F
% Relative Humidity:	45	50
Wind Velocity, Unit:	4 MPH	4 MPH
Wind Direction:	N	SW
Soil Temperature, Unit:	58 F	61 F
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	20	10

CORN PREEMERGENCE & POSTEMERGENCE II

Trial ID: C5011
 Protocol ID:
 Location: LEXINGTON, KY

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

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	V3	
Height, Unit:	10	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:	ABUTH W	ABUTH 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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NO TILL CORN II

Trial ID: C5014

Protocol ID:

Location: LEXINGTON, KY

Study Director: CHARLES H. SLACK

Investigator: Charles H. Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	STEME	CHEAL	AMBTR	SETFA
Pest Name	Giant foxtail	Common chickweed	Lambsquarters, common	Giant Ragweed	Giant foxtail
Crop Code					ZEAMX
BBCH Scale					BCOR
Crop Name					Corn
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	1 WEEK	1 WEEK	1 WEEK	2 WEEK	2 WEEK
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt	Treatment	Form	Rate	Growth	1	2	3	4	5	6
No.	Name	Conc	Unit	Stage						
1	ROUNDUP WeatherMAX	5.5	22 FL OZ/A	1WK	99	99	99	99	0	99
1	AMS	100	2.5 LB A/A	1WK						
1	ROUNDUP WeatherMAX	5.5	22 FL OZ/A	LP						
1	AMS	100	2.5 LB A/A	LP						
2	GRAMOXONE MAX	3	2 PT/A	1WK	99	99	99	99	0	96
2	WEEDONE LV4	3.8	1 PT/A	1WK						
2	ROUNDUP WeatherMAX	5.5	22 FL OZ/A	LP						
2	AMS	100	2.5 LB A/A	LP						
3	AATREX	4	1.5 QT/A	1WK	99	99	99	99	0	98
3	ROUNDUP WeatherMAX	5.5	22 FL OZ/A	1WK						
3	AMS	100	2.5 LB A/A	1WK						
3	ROUNDUP WeatherMAX	5.5	22 FL OZ/A	LP						
3	AMS	100	2.5 LB A/A	LP						
4	VALOR SX	51	2 OZ/A	1WK	99	99	99	99	0	93
4	ROUNDUP WeatherMAX	5.5	22 FL OZ/A	1WK						
4	AMS	100	2.5 LB A/A	1WK						
4	ROUNDUP WeatherMAX	5.5	22 FL OZ/A	LP						
4	AMS	100	2.5 LB A/A	LP						
5	AATREX	4	1.5 QT/A	1WK	99	99	99	99	0	83
5	VALOR SX	51	2 OZ/A	1WK						
5	ROUNDUP WeatherMAX	5.5	22 FL OZ/A	1WK						
5	AMS	100	2.5 LB A/A	1WK						
5	ROUNDUP WeatherMAX	5.5	22 FL OZ/A	LP						
6	CHECK UNTREATED				0	0	0	0	0	0
LSD (P=.05)					0.0	0.0	0.0	0.0	0.0	6.5
Standard Deviation					0.0	0.0	0.0	0.0	0.0	3.6
CV					0.0	0.0	0.0	0.0	0.0	4.55
Grand Mean					82.5	82.5	82.5	82.5	0.0	78.22

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NO TILL CORN II

Trial ID: C5014

Protocol ID:

Location: LEXINGTON, KY

Study Director: CHARLES H. SLACK

Investigator: Charles H. Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed						
Pest Code	CHEAL	AMBTR	SETFA	CHEAL	AMBTR						
Pest Name	Lambsquarters, common	Giant Ragweed	Giant foxtail	Lambsquarters, common	Giant Ragweed						
Crop Code			ZEAMX		ZEAMX						
BBCH Scale			BCOR		BCOR						
Crop Name			Corn		Corn						
Rating Data Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL						
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	Form	Rate	Growth								
No. Name	Conc	Rate	Unit	Stage							
					7						
					8						
					9						
					10						
					11						
					12						
					13						
1 ROUNDUP WeatherMAX	5.5	22	FL OZ/A	1WK	96	77	0	99	96	80	0
1 AMS	100	2.5	LB A/A	1WK							
1 ROUNDUP WeatherMAX	5.5	22	FL OZ/A	LP							
1 AMS	100	2.5	LB A/A	LP							
2 GRAMOXONE MAX	3	2	PT/A	1WK	96	88	0	96	96	88	0
2 WEEDONE LV4	3.8	1	PT/A	1WK							
2 ROUNDUP WeatherMAX	5.5	22	FL OZ/A	LP							
2 AMS	100	2.5	LB A/A	LP							
3 AATREX	4	1.5	QT/A	1WK	98	96	0	85	98	96	0
3 ROUNDUP WeatherMAX	5.5	22	FL OZ/A	1WK							
3 AMS	100	2.5	LB A/A	1WK							
3 ROUNDUP WeatherMAX	5.5	22	FL OZ/A	LP							
3 AMS	100	2.5	LB A/A	LP							
4 VALOR SX	51	2	OZ/A	1WK	98	85	0	60	98	85	0
4 ROUNDUP WeatherMAX	5.5	22	FL OZ/A	1WK							
4 AMS	100	2.5	LB A/A	1WK							
4 ROUNDUP WeatherMAX	5.5	22	FL OZ/A	LP							
4 AMS	100	2.5	LB A/A	LP							
5 AATREX	4	1.5	QT/A	1WK	96	96	0	53	96	96	0
5 VALOR SX	51	2	OZ/A	1WK							
5 ROUNDUP WeatherMAX	5.5	22	FL OZ/A	1WK							
5 AMS	100	2.5	LB A/A	1WK							
5 ROUNDUP WeatherMAX	5.5	22	FL OZ/A	LP							
6 CHECK UNTREATED					0	0	0	0	0	0	0
LSD (P=.05)		4.1			17.4	0.0		16.3	4.1	18.5	0.0
Standard Deviation		2.3			9.5	0.0		9.0	2.3	10.2	0.0
CV		2.81			12.96	0.0		13.69	2.81	13.68	0.0
Grand Mean		80.72			73.67	0.0		65.56	80.72	74.22	0.0

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NO TILL CORN II

Trial ID: C5014
Protocol ID:
Location: LEXINGTON, KY

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

Trt Treatment No. Name	Form Conc	Rate	Rate Unit	Growth Stage	7	8	9	10	11	12	13
Replicate F		0.172				0.499	0.000	2.433		0.172	0.000
Replicate Prob(F)		0.8441				0.6214	1.0000	0.1378		0.8441	1.0000
Treatment F		910.252				44.686	0.000	51.437		910.252	0.000
Treatment Prob(F)		0.0001				0.0001	1.0000	0.0001		0.0001	1.0000

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NO TILL CORN II

Trial ID: C5014

Protocol ID:

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, common Giant Ragweed		
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 No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	14	15	16
1	ROUNDUP WeatherMAX	5.5	22	FL OZ/A	1WK	98	96	99
1	AMS	100	2.5	LB A/A	1WK			
1	ROUNDUP WeatherMAX	5.5	22	FL OZ/A	LP			
1	AMS	100	2.5	LB A/A	LP			
2	GRAMOXONE MAX	3	2	PT/A	1WK	98	98	99
2	WEEDONE LV4	3.8	1	PT/A	1WK			
2	ROUNDUP WeatherMAX	5.5	22	FL OZ/A	LP			
2	AMS	100	2.5	LB A/A	LP			
3	AATREX	4	1.5	QT/A	1WK	98	99	98
3	ROUNDUP WeatherMAX	5.5	22	FL OZ/A	1WK			
3	AMS	100	2.5	LB A/A	1WK			
3	ROUNDUP WeatherMAX	5.5	22	FL OZ/A	LP			
3	AMS	100	2.5	LB A/A	LP			
4	VALOR SX	51	2	OZ/A	1WK	98	98	98
4	ROUNDUP WeatherMAX	5.5	22	FL OZ/A	1WK			
4	AMS	100	2.5	LB A/A	1WK			
4	ROUNDUP WeatherMAX	5.5	22	FL OZ/A	LP			
4	AMS	100	2.5	LB A/A	LP			
5	AATREX	4	1.5	QT/A	1WK	93	98	99
5	VALOR SX	51	2	OZ/A	1WK			
5	ROUNDUP WeatherMAX	5.5	22	FL OZ/A	1WK			
5	AMS	100	2.5	LB A/A	1WK			
5	ROUNDUP WeatherMAX	5.5	22	FL OZ/A	LP			
6	CHECK UNTREATED					0	0	0
LSD (P=.05)						4.3	3.7	2.2
Standard Deviation						2.4	2.0	1.2
CV						2.96	2.48	1.45
Grand Mean						80.67	81.39	82.06

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Weed Science Field Research

NO TILL CORN II

Trial ID: C5014
Protocol ID:
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, common Giant Ragweed		
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	Form Conc	Rate	Rate Unit	Growth Stage	14	15	16
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Replicate F	0.205	0.217	2.500
Replicate Prob(F)	0.8182	0.8083	0.1317
Treatment F	823.532	1166.948	3409.539
Treatment Prob(F)	0.0001	0.0001	0.0001

NO TILL CORN II

Trial ID: C5014
Protocol ID:
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 **E-mail:** cslack@uky.edu
Investigator: Charles H. Slack**Trial Location****City:** LEXINGTON **Trial Status:** COMPLETE
State/Prov.: KENTUCKY
Postal Code: 40511
Country: USA
Directions:**Objectives:****Conclusions:****Crop Description****Crop 1:** ZEAMX Zea mays Corn
Variety: DKC 61-45
BBCH Scale: BCOR **Planting Date:** 5-3-05
Planting Method: ROW **Rate, Unit:** 30000 P/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM **Soil Temperature, Unit:** 55 F
Soil Moisture: NORMAL **Emergence Date:** 5-12-05**Pest Description****Pest 1 Type:** W **Code:** SETFA Setaria faberi
Common Name: Giant Foxtail

Pest 2 Type: W **Code:** STEME Stellaria media
Common Name: Common chickweed

Pest 3 Type: W **Code:** CHEAL Chenopodium album
Common Name: Lambsquarters, common

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NO TILL CORN II

Trial ID: C5014

Protocol ID:

Location: LEXINGTON, KY

Study Director: CHARLES H. SLACK

Investigator: Charles H. Slack

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: 44 FT **Tillage Type:** NO-TILL
Replications: 3 **Study Design:** Randomized Complete Block

Trial Initiation Comments:

Field Prep./Maintenance:

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.7 **Texture:** SILT LOAM
% Silt: 64 **pH:** 6.5 **Soil Name:** MAURY
% Clay: 30 **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:	5-4-05	6-4-05
Time of Day:	4:30 PM	5 PM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	LP
Application Placement:	BROSOI	BROFOL
Applied By:	C. H. SLACK	C. H. SLACK
Air Temperature, Unit:	55 F	88 F
% Relative Humidity:	50	50
Wind Velocity, Unit:	4 MPH	4 MPH
Wind Direction:	N	SW
Soil Temperature, Unit:	56 F	75 F
Soil Moisture:	ADEQUATE	INADEQUATE
% Cloud Cover:	20	10

NO TILL CORN II

Trial ID: C5014
Protocol ID:
Location: LEXINGTON, KYStudy Director: CHARLES H. SLACK
Investigator: Charles H. Slack**Crop Stage At Each Application**

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH	V6
Height, Unit:	12	IN

Pest Stage At Each Application

	A	B
Pest 1 Code, Disc., Scale:	SETFA W	SETFA W
Stage Majority, Percent:	4 LF	
Height, Unit:	4	IN
Pest 2 Code, Disc., Scale:	STEME W	STEME W
Stage Majority, Percent:	8 LF	
Height, Unit:	4	IN
Pest 3 Code, Disc., Scale:	CHEAL W	CHEAL W
Stage Majority, Percent:	6 LF	
Height, Unit:	3	IN
Pest 4 Code, Disc., Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:	6 LF	
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	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 VIII

Trial ID: C5015

Protocol ID:

Location: LEXINGTON, KY

Study Director: CHARLES H. SLACK

Investigator: Charles H. Slack

Pest Type	W Weed		W Weed		W Weed		W Weed		W Weed			
Pest Code	SETFA		CHEAL		SETFA		CHEAL		SETFA			
Pest Name	Giant foxtail		Lambsquarters, common		Giant foxtail		Lambsquarters, common		Giant foxtail			
Crop Code	ZEAMX		ZEAMX		ZEAMX		ZEAMX		ZEAMX			
BBCH Scale	BCOR		BCOR		BCOR		BCOR		BCOR			
Crop Name	Corn		Corn		Corn		Corn		Corn			
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	Form	Rate	Growth									
No. Name	Conc	Rate	Unit	Stage	1	2	3	4	5	6	7	8
1 MANA-ACE	6.4	0.8	LB	A/A PRE	0	95	86	0	87	70	0	82
2 MANA-ACE	6.4	1.2	LB	A/A PRE	0	95	72	0	89	58	0	86
3 MANA-ACE	6.4	1.6	LB	A/A PRE	0	95	87	0	90	72	0	89
4 ACETO + ATRAZINE	5.25	1.21	LB	A/A PRE	3	99	96	0	88	92	0	83
5 ACETO + ATRAZINE	5.25	1.81	LB	A/A PRE	0	99	99	0	88	98	0	80
6 ACETO + ATRAZINE	5.25	2.41	LB	A/A PRE	0	99	99	0	89	98	0	85
7 ACETO + ATRAZINE	5.25	1.21	LB	A/A PRE	0	99	99	0	92	96	0	91
7 BALANCE PRO	4	0.047	LB	A/A PRE								
8 ACETO + ATRAZINE	5.25	1.21	LB	A/A PRE	0	99	98	0	98	96	0	96
8 BALANCE PRO	4	0.07	LB	A/A PRE								
9 ACETO + ATRAZINE	5.25	1.81	LB	A/A PRE	0	99	96	0	91	96	0	90
9 BALANCE PRO	4	0.047	LB	A/A PRE								
10 ACETO + ATRAZINE	5.25	1.81	LB	A/A PRE	0	99	99	0	91	98	0	88
10 BALANCE PRO	4	0.07	LB	A/A PRE								
11 ACETO + ATRAZINE	5.25	2.41	LB	A/A PRE	0	99	99	0	95	94	0	95
11 BALANCE PRO	4	0.047	LB	A/A PRE								
12 ACETO + ATRAZINE	5.25	2.41	LB	A/A PRE	0	99	99	0	98	99	0	96
12 BALANCE PRO	4	0.07	LB	A/A PRE								
13 AATREX	4	0.41	LB	A/A PRE	0	88	75	0	77	57	0	77
14 AATREX	4	0.61	LB	A/A PRE	0	85	96	0	66	95	0	47
15 AATREX	4	0.81	LB	A/A PRE	0	95	98	0	73	96	0	65

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CORN PREEMERGENCE VIII

Trial ID: C5015
Protocol ID:
Location: LEXINGTON, KY

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

Pest Type		W Weed		W Weed		W Weed		W Weed		W Weed			
Pest Code		SETFA		CHEAL		SETFA		CHEAL		SETFA			
Pest Name		Giant foxtail		Lambsquarters, common		Giant foxtail		Lambsquarters, common		Giant foxtail			
Crop Code	ZEAMX									ZEAMX			
BBCH Scale	BCOR									BCOR			
Crop Name	Corn									Corn			
Rating Data Type	INJURY	CONTROL		CONTROL	INJURY	CONTROL		CONTROL	INJURY	CONTROL			
Rating Unit	PERCENT	PERCENT		PERCENT	PERCENT	PERCENT		PERCENT	PERCENT	PERCENT			
Trt-Eval Interval	2 WEEK	2 WEEK		2 WEEK	4 WEEK	4 WEEK		4 WEEK	8 WEEK	8 WEEK			
ARM Action Codes	P	P		P	P	P		P	P	P			
Number of Decimals	0	0		0	0	0		0	0	0			
Trt Treatment	Form	Rate	Growth										
No. Name	Conc	Rate	Unit	Stage	1	2	3	4	5	6	7	8	
16 BALANCE PRO	4	0.047	LB	A/A PRE	0	55		40	0	53	23	0	53
17 BALANCE PRO	4	0.07	LB	A/A PRE	0	60		50	0	53	43	0	47
18 CHECK UNTREATED					0	0		0	0	30	13	0	30
LSD (P=.05)					2.0	29.8		24.1	0.0	35.7	23.5	0.0	36.6
Standard Deviation					1.2	17.9		14.4	0.0	21.4	14.1	0.0	21.9
CV					734.85	20.63		17.48	0.0	26.62	18.16	0.0	28.64
Grand Mean					0.17	86.54		82.59	0.0	80.41	77.44	0.0	76.61
Replicate F					1.000	0.180		0.154	0.000	0.022	0.056	0.000	0.068
Replicate Prob(F)					0.3784	0.8359		0.8580	1.0000	0.9778	0.9452	1.0000	0.9344
Treatment F					1.000	6.012		10.598	0.000	2.244	11.564	0.000	2.433
Treatment Prob(F)					0.4813	0.0001		0.0001	1.0000	0.0220	0.0001	1.0000	0.0134

CORN PREEMERGENCE VIII

Trial ID: C5015
 Protocol ID: Study Director: CHARLES H. SLACK
 Location: LEXINGTON, KY Investigator: Charles H. Slack

Pest Type W Weed
 Pest Code CHEAL
 Pest Name Lambsquarters, common
 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 No.	Treatment Name	Form	Rate	Unit	Growth Stage	
1	MANA-ACE	6.4	0.8	LB	A/A PRE	58
2	MANA-ACE	6.4	1.2	LB	A/A PRE	40
3	MANA-ACE	6.4	1.6	LB	A/A PRE	43
4	ACETO + ATRAZINE	5.25	1.21	LB	A/A PRE	85
5	ACETO + ATRAZINE	5.25	1.81	LB	A/A PRE	93
6	ACETO + ATRAZINE	5.25	2.41	LB	A/A PRE	93
7	ACETO + ATRAZINE	5.25	1.21	LB	A/A PRE	90
7	BALANCE PRO	4	0.047	LB	A/A PRE	
8	ACETO + ATRAZINE	5.25	1.21	LB	A/A PRE	92
8	BALANCE PRO	4	0.07	LB	A/A PRE	
9	ACETO + ATRAZINE	5.25	1.81	LB	A/A PRE	96
9	BALANCE PRO	4	0.047	LB	A/A PRE	
10	ACETO + ATRAZINE	5.25	1.81	LB	A/A PRE	95
10	BALANCE PRO	4	0.07	LB	A/A PRE	
11	ACETO + ATRAZINE	5.25	2.41	LB	A/A PRE	94
11	BALANCE PRO	4	0.047	LB	A/A PRE	
12	ACETO + ATRAZINE	5.25	2.41	LB	A/A PRE	99
12	BALANCE PRO	4	0.07	LB	A/A PRE	
13	AATREX	4	0.41	LB	A/A PRE	37
14	AATREX	4	0.61	LB	A/A PRE	88
15	AATREX	4	0.81	LB	A/A PRE	92

CORN PREEMERGENCE VIII

Trial ID: C5015
 Protocol ID: Study Director: CHARLES H. SLACK
 Location: LEXINGTON, KY Investigator: Charles H. Slack

Pest Type W Weed
 Pest Code CHEAL
 Pest Name Lambsquarters, common
 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 No. Name	Form Conc	Rate Rate	Growth Unit Stage	
16 BALANCE PRO	4	0.047 LB	A/A PRE	17
17 BALANCE PRO	4	0.07 LB	A/A PRE	40
18 CHECK UNTREATED				7
LSD (P=.05)				23.8
Standard Deviation				14.3
CV				20.41
Grand Mean				69.94
Replicate F				0.151
Replicate Prob(F)				0.8606
Treatment F				14.138
Treatment Prob(F)				0.0001

CORN PREEMERGENCE VIII

Trial ID: C5015
 Protocol ID: Study Director: CHARLES H. SLACK
 Location: LEXINGTON, KY Investigator: Charles H. Slack

General Trial Information

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

Trial Location

City: LEXINGTON **Trial Status:** COMPLETE
State/Prov.: KENTUCKY
Postal Code: 40511
Country: USA
Directions:

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

Crop 1: ZEAMX Zea mays Corn
Variety: DKC 61-45
BBCH Scale: BCOR **Planting Date:** 5-4-05
Planting Method: ROW **Rate, Unit:** 30000 P/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM **Soil Temperature, Unit:** 60 F
Soil Moisture: NORMAL **Emergence Date:** 5-16-05

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

CORN PREEMERGENCE VIII

Trial ID: C5015
 Protocol ID:
 Location: LEXINGTON, KY

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

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**

Description Name: MAURY		
% Sand: 6	% OM: 2.7	Texture: SILT LOAM
% Silt: 64	pH: 6.5	Soil Name: MAURY
% Clay: 30	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:	5-4-05
Time of Day:	3 PM
Application Method:	SPRAY
Application Timing:	PRE
Application Placement:	BROSOI
Applied By:	C. H. SLACK
Air Temperature, Unit:	61 F
% Relative Humidity:	50
Wind Velocity, Unit:	4 MPH
Wind Direction:	SSW
Soil Temperature, Unit:	55 F
Soil Moisture:	ADEQUATE
% Cloud Cover:	20

CORN PREEMERGENCE VIII

Trial ID: C5015
Protocol ID:
Location: LEXINGTON, KY

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

Crop Stage At Each Application

A

Crop 1 Code, BBCH Scale: ZEAMX BCOR

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: 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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CORN PREEMERGENCE IX

Trial ID: C5016
Protocol ID:
Location: LEXINGTON, KY

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

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	CHEAL	SETFA	CHEAL	SETFA
Pest Name	Giant foxtail Lambsquarters, common		Giant foxtail Lambsquarters, common		Giant foxtail
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR
Crop Name	Corn	Corn	Corn	Corn	Corn
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	8 WEEK
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt Treatment	Form	Rate	Growth	1		2		3		4		5		6		7		8	
No. Name	Conc	Rate	Unit	Stage															
1 CHECK UNTREATED					0	0		0	0		0	0		0	0		0	0	
2 MANA-283	5.97	1.83	LB	A/A PRE	0	99		99	0		93		95	0		92			
3 MANA-283	5.97	2.75	LB	A/A PRE	0	99		99	0		96		99	0		95			
4 MANA-283	5.97	3.67	LB	A/A PRE	0	99		99	0		99		99	0		98			
5 MANA 284	5.5	1.97	LB	A/A PRE	0	99		99	0		90		96	0		87			
6 MANA 284	5.5	2.95	LB	A/A PRE	0	99		99	0		96		99	0		92			
7 MANA 284	5.5	3.94	LB	A/A PRE	0	99		99	0		93		98	0		93			
8 BICEP II MAGNUM	5.5	1.53	LB	A/A PRE	0	99		99	0		96		95	0		93			
9 BICEP II MAGNUM	5.5	2.29	LB	A/A PRE	0	99		99	0		91		98	0		89			
10 BICEP II MAGNUM	5.5	2.94	LB	A/A PRE	0	99		99	0		99		99	0		99			
11 BICEP II MAGNUM	5.5	4.59	LB	A/A PRE	0	99		99	0		96		99	0		95			
12 CHECK UNTREATED					0	0		0	0		0		0	0		0			
LSD (P=.05)					0.0	0.0		0.0	0.0		7.0		2.8	0.0		8.7			
Standard Deviation					0.0	0.0		0.0	0.0		4.1		1.7	0.0		5.1			
CV					0.0	0.0		0.0	0.0		5.23		2.03	0.0		6.6			
Grand Mean					0.0	82.5		82.5	0.0		79.17		81.36	0.0		77.69			
Replicate F					0.000	0.000		0.000	0.000		0.645		2.335	0.000		0.490			
Replicate Prob(F)					1.0000	1.0000		1.0000	1.0000		0.5341		0.1204	1.0000		0.6192			
Treatment F					0.000	0.000		0.000	0.000		240.132		1592.863	0.000		151.819			
Treatment Prob(F)					1.0000	1.0000		1.0000	1.0000		0.0001		0.0001	1.0000		0.0001			

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CORN PREEMERGENCE IX

Trial ID: C5016
 Protocol ID: Study Director: CHARLES H. SLACK
 Location: LEXINGTON, KY Investigator: Charles H. Slack

Pest Type W Weed
 Pest Code CHEAL
 Pest Name Lambsquarters, common
 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 No.	Treatment Name	Form	Rate	Unit	Growth Stage	
1	CHECK UNTREATED					0
2	MANA-283	5.97	1.83	LB A/A	PRE	95
3	MANA-283	5.97	2.75	LB A/A	PRE	98
4	MANA-283	5.97	3.67	LB A/A	PRE	98
5	MANA 284	5.5	1.97	LB A/A	PRE	93
6	MANA 284	5.5	2.95	LB A/A	PRE	96
7	MANA 284	5.5	3.94	LB A/A	PRE	96
8	BICEP II MAGNUM	5.5	1.53	LB A/A	PRE	95
9	BICEP II MAGNUM	5.5	2.29	LB A/A	PRE	95
10	BICEP II MAGNUM	5.5	2.94	LB A/A	PRE	99
11	BICEP II MAGNUM	5.5	4.59	LB A/A	PRE	98
12	CHECK UNTREATED					0
LSD (P=.05)						4.9
Standard Deviation						2.9
CV						3.63
Grand Mean						80.17
Replicate F						0.482
Replicate Prob(F)						0.6241
Treatment F						497.140
Treatment Prob(F)						0.0001

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CORN PREEMERGENCE IX

Trial ID: C5016
Protocol ID:
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 **E-mail:** cslack@uky.edu
Investigator: Charles H. Slack

Trial Location

City: LEXINGTON **Trial Status:** COMPLETE
State/Prov.: KENTUCKY
Postal Code: 40511
Country: USA
Directions:

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

Crop 1: ZEAMX Zea mays Corn
Variety: DKC 61-45
BBCH Scale: BCOR **Planting Date:** 5-3-05
Planting Method: ROW **Rate, Unit:** 30000 P/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM **Soil Temperature, Unit:** 55 F
Soil Moisture: NORMAL **Emergence Date:** 5-10-05

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

CORN PREEMERGENCE IX

Trial ID: C5016
 Protocol ID:
 Location: LEXINGTON, KY

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

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**

Description Name: MAURY		
% Sand: 6	% OM: 2.7	Texture: SILT LOAM
% Silt: 64	pH: 6.5	Soil Name: MAURY
% Clay: 30	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:	4-28-05
Time of Day:	1 PM
Application Method:	SPRAY
Application Timing:	PRE
Application Placement:	BROSOI
Applied By:	C. H. SLACK
Air Temperature, Unit:	55 F
% Relative Humidity:	80
Wind Velocity, Unit:	6 MPH
Wind Direction:	SSW
Soil Temperature, Unit:	52 F
Soil Moisture:	ADEQUATE
% Cloud Cover:	80

CORN PREEMERGENCE IX

Trial ID: C5016
Protocol ID:
Location: LEXINGTON, KY

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

Crop Stage At Each Application

A

Crop 1 Code, BBCH Scale: ZEAMX BCOR

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: 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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CORN PREEMERGENCE III

Trial ID: C5017

Protocol ID:

Location: LEXINGTON, KY

Study Director: CHARLES H. SLACK

Investigator: Charles H. Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	XANST	SETFA	XANST	SETFA
Pest Name	Giant foxtail	Common cocklebur	Giant foxtail	Common cocklebur	Giant foxtail
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR
Crop Name	Corn	Corn	Corn	Corn	Corn
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	Form	Rate	Growth	1	2	3	4	5	6	7	8
No. Name	Conc	Rate	Unit Stage								
1 ACETO + ATRAZINE	5.25	1.13	LB A/A PRE	0	99	83	0	82	63	0	81
2 ACETO + ATRAZINE	5.25	2.26	LB A/A PRE	0	99	99	0	93	78	0	93
3 ACETO + ATRAZINE	5.25	3.39	LB A/A PRE	0	99	99	0	98	91	0	96
4 ACETO + ATRAZINE	5.25	4.52	LB A/A PRE	0	99	95	0	99	88	0	99
5 DEGREE XTRA	4.04	1.12	LB A/A PRE	0	92	59	0	73	52	0	63
6 DEGREE XTRA	4.04	2.24	LB A/A PRE	0	99	73	0	90	58	0	90
7 DEGREE XTRA	4.04	3.37	LB A/A PRE	0	99	85	0	93	69	0	93
8 DEGREE XTRA	4.04	4.49	LB A/A PRE	0	99	95	0	93	85	0	93
9 MANA-ACE	6.4	0.75	LB A/A PRE	0	99	85	0	93	65	0	93
9 AATREX	4	0.375	LB A/A PRE								
10 MANA-ACE	6.4	3	LB A/A PRE	0	99	98	0	98	85	0	98
10 AATREX	4	1.5	LB A/A PRE								
11 DEGREE	3.8	0.75	LB A/A PRE	0	96	78	0	84	58	0	76
11 AATREX	4	0.375	LB A/A PRE								
12 DEGREE	3.8	3	LB A/A PRE	0	99	88	0	93	67	0	92
12 AATREX	4	1.5	LB A/A PRE								
13 CHECK UNTREATED				0	0	0	0	0	0	0	0
14 CHECK UNTREATED				0	0	0	0	0	0	0	20
LSD (P=.05)				0.0	2.6	24.7	0.0	8.4	28.3	0.0	20.5
Standard Deviation				0.0	1.6	14.7	0.0	5.0	16.8	0.0	12.2
CV				0.0	1.86	19.89	0.0	6.39	27.44	0.0	15.72
Grand Mean				0.0	84.12	74.07	0.0	77.88	61.4	0.0	77.67

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CORN PREEMERGENCE III

Trial ID: C5017
 Protocol ID: Study Director: CHARLES H. SLACK
 Location: LEXINGTON, KY Investigator: Charles H. Slack

Pest Type W Weed
 Pest Code XANST
 Pest Name Common cocklebur
 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 No.	Treatment Name	Form	Rate	Unit	Growth Stage	
1	ACETO + ATRAZINE	5.25	1.13	LB	A/A PRE	52
2	ACETO + ATRAZINE	5.25	2.26	LB	A/A PRE	68
3	ACETO + ATRAZINE	5.25	3.39	LB	A/A PRE	86
4	ACETO + ATRAZINE	5.25	4.52	LB	A/A PRE	86
5	DEGREE XTRA	4.04	1.12	LB	A/A PRE	37
6	DEGREE XTRA	4.04	2.24	LB	A/A PRE	45
7	DEGREE XTRA	4.04	3.37	LB	A/A PRE	53
8	DEGREE XTRA	4.04	4.49	LB	A/A PRE	78
9	MANA-ACE	6.4	0.75	LB	A/A PRE	53
9	AATREX	4	0.375	LB	A/A PRE	
10	MANA-ACE	6.4	3	LB	A/A PRE	82
10	AATREX	4	1.5	LB	A/A PRE	
11	DEGREE	3.8	0.75	LB	A/A PRE	43
11	AATREX	4	0.375	LB	A/A PRE	
12	DEGREE	3.8	3	LB	A/A PRE	67
12	AATREX	4	1.5	LB	A/A PRE	
13	CHECK UNTREATED					0
14	CHECK UNTREATED					10
	LSD (P=.05)					24.2
	Standard Deviation					14.4
	CV					26.58
	Grand Mean					54.31

CORN PREEMERGENCE III

Trial ID: C5017
 Protocol ID: Study Director: CHARLES H. SLACK
 Location: LEXINGTON, KY Investigator: Charles H. Slack

Pest Type W Weed
 Pest Code XANST
 Pest Name Common cocklebur
 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	Form	Rate	Growth	
No. Name	Conc Rate	Unit	Stage	9

Replicate F 2.148
 Replicate Prob(F) 0.1370
 Treatment F 10.106
 Treatment Prob(F) 0.0001

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CORN PREEMERGENCE III

Trial ID: C5017
Protocol ID:
Location: LEXINGTON, KY

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

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**

Description Name: MAURY		
% Sand: 6	% OM: 2.7	Texture: SILT LOAM
% Silt: 64	pH: 6.5	Soil Name: MAURY
% Clay: 30	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:	5-4-05
Time of Day:	2 PM
Application Method:	SPRAY
Application Timing:	PRE
Application Placement:	BROSOI
Applied By:	C. H. SLACK
Air Temperature, Unit:	61 F
% Relative Humidity:	40
Wind Velocity, Unit:	4 MPH
Soil Temperature, Unit:	58 F
Soil Moisture:	ADEQUATE
% Cloud Cover:	20

Crop Stage At Each Application

A
Crop 1 Code, BBCH Scale: ZEAMX BCOR

CORN PREEMERGENCE III

Trial ID: C5017
Protocol ID:
Location: LEXINGTON, KY

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

Pest Stage At Each Application

A

Pest 1 Code, Disc., Scale: SETFA W
Pest 2 Code, Disc., Scale: XANST 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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CORN PREEMERGENCE IV

Trial ID: C5018
Protocol ID:
Location: LEXINGTON, KY

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

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	XANST	SETFA	XANST	SETFA
Pest Name	Giant foxtail	Common cocklebur	Giant foxtail	Common cocklebur	Giant foxtail
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR
Crop Name	Corn	Corn	Corn	Corn	Corn
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	8 WEEK
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	1	2	3	4	5	6	7	8
1	MANA-ACE	6.4	0.8	LB	A/A PRE	0	97	70	0	88	40	0	88
2	MANA-ACE	6.4	1.2	LB	A/A PRE	0	99	87	0	87	63	0	85
3	MANA-ACE	6.4	1.6	LB	A/A PRE	0	98	85	0	89	67	0	89
4	ACETO + ATRAZINE	5.25	1.21	LB	A/A PRE	0	99	90	0	88	70	0	88
5	ACETO + ATRAZINE	5.25	1.81	LB	A/A PRE	0	99	89	0	88	72	0	88
6	ACETO + ATRAZINE	5.25	2.41	LB	A/A PRE	0	99	99	0	93	80	0	93
7	ACETO + ATRAZINE	5.25	1.21	LB	A/A PRE	0	99	96	0	90	76	0	90
7	CALLISTO	4	0.094	LB	A/A PRE								
8	ACETO + ATRAZINE	5.25	1.21	LB	A/A PRE	0	99	96	0	92	80	0	92
8	CALLISTO	4	0.15	LB	A/A PRE								
9	ACETO + ATRAZINE	5.25	1.81	LB	A/A PRE	0	99	96	0	96	80	0	96
9	CALLISTO	4	0.094	LB	A/A PRE								
10	ACETO + ATRAZINE	5.25	1.81	LB	A/A PRE	0	99	99	0	93	88	0	93
10	CALLISTO	4	0.15	LB	A/A PRE								
11	ACETO + ATRAZINE	5.25	2.41	LB	A/A PRE	0	99	99	0	95	87	0	95
11	CALLISTO	4	0.094	LB	A/A PRE								
12	ACETO + ATRAZINE	5.25	2.41	LB	A/A PRE	0	99	95	0	95	75	0	95
12	CALLISTO	4	0.15	LB	A/A PRE								
13	AATREX	4	0.41	LB	A/A PRE	0	93	80	0	30	33	0	13
14	AATREX	4	0.61	LB	A/A PRE	0	33	20	0	10	13	0	10
15	AATREX	4	0.81	LB	A/A PRE	0	96	67	0	53	43	0	40

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

CORN PREEMERGENCE IV

Trial ID: C5018
Protocol ID:
Location: LEXINGTON, KY

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

Pest Type		W Weed	W Weed		W Weed	W Weed		W Weed			
Pest Code		SETFA	XANST		SETFA	XANST		SETFA			
Pest Name		Giant foxtail	Common cocklebur		Giant foxtail	Common cocklebur		Giant foxtail			
Crop Code	ZEAMX			ZEAMX			ZEAMX				
BBCH Scale	BCOR			BCOR			BCOR				
Crop Name	Corn			Corn			Corn				
Rating Data Type	INJURY	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	INJURY	CONTROL			
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT			
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK			
ARM Action Codes	P	P	P	P	P	P	P	P			
Number of Decimals	0	0	0	0	0	0	0	0			
Trt Treatment	Form	Rate	Growth								
No. Name	Conc	Rate	Stage	1	2	3	4	5			
								6			
								7			
								8			
16 CALLISTO	4	0.094 LB	A/A PRE	0	65	30	0	38	27	0	35
17 CALLISTO	4	0.15 LB	A/A PRE	0	99	78	0	60	77	0	57
18 CHECK UNTREATED				0	0	0	0	0	0	0	0
LSD (P=.05)				0.0	31.1	19.5	0.0	27.0	19.5	0.0	24.0
Standard Deviation				0.0	18.7	11.7	0.0	16.2	11.7	0.0	14.4
CV				0.0	21.4	15.3	0.0	22.64	19.69	0.0	20.79
Grand Mean				0.0	87.26	76.46	0.0	71.44	59.5	0.0	69.3
Replicate F				0.000	1.562	0.704	0.000	0.480	3.149	0.000	0.743
Replicate Prob(F)				1.0000	0.2244	0.5016	1.0000	0.6227	0.0556	1.0000	0.4832
Treatment F				0.000	6.532	19.212	0.000	11.448	15.473	0.000	16.529
Treatment Prob(F)				1.0000	0.0001	0.0001	1.0000	0.0001	0.0001	1.0000	0.0001

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CORN PREEMERGENCE IV

Trial ID: C5018
Protocol ID: Study Director: CHARLES H. SLACK
Location: LEXINGTON, KY Investigator: Charles H. Slack

Pest Type W Weed
Pest Code XANST
Pest Name Common cocklebur
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 No.	Treatment Name	Form Conc	Rate Rate	Unit Unit	Growth Stage	
1	MANA-ACE	6.4	0.8	LB	A/A PRE	23
2	MANA-ACE	6.4	1.2	LB	A/A PRE	40
3	MANA-ACE	6.4	1.6	LB	A/A PRE	40
4	ACETO + ATRAZINE	5.25	1.21	LB	A/A PRE	55
5	ACETO + ATRAZINE	5.25	1.81	LB	A/A PRE	62
6	ACETO + ATRAZINE	5.25	2.41	LB	A/A PRE	70
7	ACETO + ATRAZINE	5.25	1.21	LB	A/A PRE	63
7	CALLISTO	4	0.094	LB	A/A PRE	
8	ACETO + ATRAZINE	5.25	1.21	LB	A/A PRE	72
8	CALLISTO	4	0.15	LB	A/A PRE	
9	ACETO + ATRAZINE	5.25	1.81	LB	A/A PRE	77
9	CALLISTO	4	0.094	LB	A/A PRE	
10	ACETO + ATRAZINE	5.25	1.81	LB	A/A PRE	81
10	CALLISTO	4	0.15	LB	A/A PRE	
11	ACETO + ATRAZINE	5.25	2.41	LB	A/A PRE	82
11	CALLISTO	4	0.094	LB	A/A PRE	
12	ACETO + ATRAZINE	5.25	2.41	LB	A/A PRE	63
12	CALLISTO	4	0.15	LB	A/A PRE	
13	AATREX	4	0.41	LB	A/A PRE	20
14	AATREX	4	0.61	LB	A/A PRE	7
15	AATREX	4	0.81	LB	A/A PRE	30

CORN PREEMERGENCE IV

Trial ID: C5018
 Protocol ID: Study Director: CHARLES H. SLACK
 Location: LEXINGTON, KY Investigator: Charles H. Slack

Pest Type W Weed
 Pest Code XANST
 Pest Name Common cocklebur
 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 No. Name	Form Conc	Rate Rate	Growth Unit Stage	
16 CALLISTO	4	0.094 LB	A/A PRE	20
17 CALLISTO	4	0.15 LB	A/A PRE	60
18 CHECK UNTREATED				0
LSD (P=.05)				20.8
Standard Deviation				12.5
CV				26.0
Grand Mean				48.02
Replicate F				1.506
Replicate Prob(F)				0.2362
Treatment F				13.109
Treatment Prob(F)				0.0001

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CORN PREEMERGENCE IV

Trial ID: C5018
Protocol ID:
Location: LEXINGTON, KY

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

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**

Description Name: MAURY		
% Sand: 6	% OM: 2.7	Texture: SILT LOAM
% Silt: 64	pH: 6.5	Soil Name: MAURY
% Clay: 30	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:	5-4-05
Time of Day:	2 PM
Application Method:	SPRAY
Application Timing:	PRE
Application Placement:	BROSOI
Applied By:	C. H. SLACK
Air Temperature, Unit:	61 F
% Relative Humidity:	40
Wind Velocity, Unit:	4 MPH
Soil Temperature, Unit:	58 F
Soil Moisture:	ADEQUATE
% Cloud Cover:	20

Crop Stage At Each Application

A
Crop 1 Code, BBCH Scale: ZEAMX BCOR

CORN PREEMERGENCE IV

Trial ID: C5018
Protocol ID:
Location: LEXINGTON, KY

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

Pest Stage At Each Application

A

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

Trial ID: C5040
 Protocol ID: Study Director: CHARLES H. SLACK
 Location: LEXINGTON, KY Investigator: Charles H. Slack

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

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	1	2	3	4	5	6	7
1	BICEP II MAGNUM	5.5	2.89	LB A/A	2WK	0	76	75	70	85	0	75
1	AATREX	4	0.375	LB A/A	2WK							
1	WEEDONE LV4	3.8	0.5	LB A/A	2WK							
1	GRAMOXONE MAX	3	0.638	LB A/A	2WK							
1	ACTIVATOR 90		0.25	% V/V	2WK							
2	DEGREE XTRA	4.04	3.03	LB A/A	2WK	0	76	63	70	86	0	76
2	AATREX	4	1	LB A/A	2WK							
2	ROUNDUP WeatherMAX	4.5	0.75	LB AE/A	2WK							
2	WEEDONE LV4	3.8	0.5	LB A/A	2WK							
2	AMS		3.7	% V/V	2WK							
3	LUMAX	3.94	2.44	LB A/A	2WK	0	94	84	80	95	0	94
3	AATREX	4	0.875	LB A/A	2WK							
3	WEEDONE LV4	3.8	0.5	LB A/A	2WK							
3	GRAMOXONE MAX	3	0.638	LB A/A	2WK							
3	ACTIVATOR 90		0.25	% V/V	2WK							
4	DEGREE XTRA	4.04	2.53	LB A/A	2WK	0	75	74	73	91	0	75
4	BALANCE PRO	4	0.063	LB A/A	2WK							
4	AATREX	4	0.67	LB A/A	2WK							
4	ROUNDUP WeatherMAX	4.5	0.75	LB AE/A	2WK							
4	WEEDONE LV4	3.8	0.5	LB A/A	2WK							
4	AMS		3.7	% V/V	2WK							
5	AATREX	4	1	LB A/A	2WK	0	87	95	95	95	0	87
5	GRAMOXONE MAX	3	0.638	LB A/A	2WK							
5	WEEDONE LV4	3.8	0.5	LB A/A	2WK							
5	ACTIVATOR 90		0.25	% V/V	2WK							
5	LUMAX	3.94	1.83	LB A/A	5C							

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NO-TILL CORN EARLY PREPLANT ROUNDUP

Trial ID: C5040
 Protocol ID: Study Director: CHARLES H. SLACK
 Location: LEXINGTON, KY Investigator: Charles H. Slack

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

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	1	2	3	4	5	6	7
6	AATREX	4	1	LB A/A	2WK	0	94	95	94	95	0	94
6	ROUNDUP WeatherMAX	4.5	0.75	LB AE/A	2WK							
6	WEEDONE LV4	3.8	0.5	LB A/A	2WK							
6	AMS		3.7	% V/V	2WK							
6	DEGREE XTRA	4.04	2.27	LB A/A	5C							
6	ROUNDUP WeatherMAX	4.5	0.75	LB AE/A	5C							
6	AMS		3.7	% V/V	5C							
7	BICEP II MAGNUM	5.5	2.89	LB A/A	2WK	0	81	93	95	95	0	81
7	GRAMOXONE MAX	3	0.638	LB A/A	2WK							
7	WEEDONE LV4	3.8	0.5	LB A/A	2WK							
7	ACTIVATOR 90		0.25	% V/V	2WK							
7	CALLISTO	4	0.094	LB A/A	16C							
7	COC		1	QT/A	16C							
7	LIQUID N		2	QT/A	16C							
8	DEGREE XTRA	4.04	3.03	LB A/A	2WK	0	95	91	94	91	0	95
8	ROUNDUP WeatherMAX	4.5	0.75	LB AE/A	2WK							
8	WEEDONE LV4	3.8	0.5	LB A/A	2WK							
8	AMS		3.7	% V/V	2WK							
8	ROUNDUP WeatherMAX	4.5	0.75	LB AE/A	16C							
8	AMS		3.7	% V/V	16C							
LSD (P=.05)						0.0	17.1	13.1	12.5	9.9	0.0	17.0
Standard Deviation						0.0	11.6	8.9	8.5	6.8	0.0	11.6
CV						0.0	13.71	10.66	10.15	7.37	0.0	13.68
Grand Mean						0.0	84.78	83.59	83.75	91.72	0.0	84.63
Replicate F						0.000	0.600	2.818	1.354	1.794	0.000	0.497
Replicate Prob(F)						1.0000	0.6221	0.0639	0.2840	0.1792	1.0000	0.6883
Treatment F						0.000	2.215	7.314	7.679	1.482	0.000	2.332
Treatment Prob(F)						1.0000	0.0749	0.0002	0.0001	0.2274	1.0000	0.0630

Dept. of Agronomy, Univ. of Ky
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NO-TILL CORN EARLY PREPLANT ROUNDUP

Trial ID: C5040

Protocol ID:

Study Director: CHARLES H. SLACK

Location: LEXINGTON, KY

Investigator: Charles H. Slack

Pest Type	W Weed	W Weed	W Weed
Pest Code	AMBTR	IPOSS	CHEAL
Pest Name	Giant Ragweed Morning glory Lambsquarters, common		
Crop Code			ZEAMX
BBCH Scale			BCOR
Crop Name			Corn
Rating Data Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	AT HARVEST	AT HARVEST	AT HARVEST
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

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Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	8	9	10	13
1	BICEP II MAGNUM	5.5	2.89	LB A/A	2WK	69	73	85	111.8
1	AATREX	4	0.375	LB A/A	2WK				
1	WEEDONE LV4	3.8	0.5	LB A/A	2WK				
1	GRAMOXONE MAX	3	0.638	LB A/A	2WK				
1	ACTIVATOR 90		0.25	% V/V	2WK				
2	DEGREE XTRA	4.04	3.03	LB A/A	2WK	68	71	86	106.3
2	AATREX	4	1	LB A/A	2WK				
2	ROUNDUP WeatherMAX	4.5	0.75	LB AE/A	2WK				
2	WEEDONE LV4	3.8	0.5	LB A/A	2WK				
2	AMS		3.7	% V/V	2WK				
3	LUMAX	3.94	2.44	LB A/A	2WK	84	80	95	109.0
3	AATREX	4	0.875	LB A/A	2WK				
3	WEEDONE LV4	3.8	0.5	LB A/A	2WK				
3	GRAMOXONE MAX	3	0.638	LB A/A	2WK				
3	ACTIVATOR 90		0.25	% V/V	2WK				
4	DEGREE XTRA	4.04	2.53	LB A/A	2WK	79	78	91	115.0
4	BALANCE PRO	4	0.063	LB A/A	2WK				
4	AATREX	4	0.67	LB A/A	2WK				
4	ROUNDUP WeatherMAX	4.5	0.75	LB AE/A	2WK				
4	WEEDONE LV4	3.8	0.5	LB A/A	2WK				
4	AMS		3.7	% V/V	2WK				
5	AATREX	4	1	LB A/A	2WK	95	95	95	117.9
5	GRAMOXONE MAX	3	0.638	LB A/A	2WK				
5	WEEDONE LV4	3.8	0.5	LB A/A	2WK				
5	ACTIVATOR 90		0.25	% V/V	2WK				
5	LUMAX	3.94	1.83	LB A/A	5C				

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NO-TILL CORN EARLY PREPLANT ROUNDUP

Trial ID: C5040
 Protocol ID: Study Director: CHARLES H. SLACK
 Location: LEXINGTON, KY Investigator: Charles H. Slack

Pest Type	W Weed	W Weed	W Weed
Pest Code	AMBTR	IPOSS	CHEAL
Pest Name	Giant Ragweed Morning glory Lambsquarters, common		
Crop Code			ZEAMX
BBCH Scale			BCOR
Crop Name			Corn
Rating Data Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	AT HARVEST	AT HARVEST	AT HARVEST
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	8	9	10	13
6	AATREX	4	1	LB A/A	2WK	95	94	95	133.3
6	ROUNDUP WeatherMAX	4.5	0.75	LB AE/A	2WK				
6	WEEDONE LV4	3.8	0.5	LB A/A	2WK				
6	AMS		3.7	% V/V	2WK				
6	DEGREE XTRA	4.04	2.27	LB A/A	5C				
6	ROUNDUP WeatherMAX	4.5	0.75	LB AE/A	5C				
6	AMS		3.7	% V/V	5C				
7	BICEP II MAGNUM	5.5	2.89	LB A/A	2WK	94	95	95	111.0
7	GRAMOXONE MAX	3	0.638	LB A/A	2WK				
7	WEEDONE LV4	3.8	0.5	LB A/A	2WK				
7	ACTIVATOR 90		0.25	% V/V	2WK				
7	CALLISTO	4	0.094	LB A/A	16C				
7	COC		1	QT/A	16C				
7	LIQUID N		2	QT/A	16C				
8	DEGREE XTRA	4.04	3.03	LB A/A	2WK	91	94	91	124.8
8	ROUNDUP WeatherMAX	4.5	0.75	LB AE/A	2WK				
8	WEEDONE LV4	3.8	0.5	LB A/A	2WK				
8	AMS		3.7	% V/V	2WK				
8	ROUNDUP WeatherMAX	4.5	0.75	LB AE/A	16C				
8	AMS		3.7	% V/V	16C				
LSD (P=.05)						10.2	8.0	9.9	21.40
Standard Deviation						6.9	5.4	6.8	14.55
CV						8.24	6.39	7.37	12.53
Grand Mean						84.22	84.84	91.72	116.14
Replicate F						3.178	1.588	1.794	1.166
Replicate Prob(F)						0.0452	0.2221	0.1792	0.3461
Treatment F						10.949	15.175	1.482	1.531
Treatment Prob(F)						0.0001	0.0001	0.2274	0.2109

Column 11: TY1 = 6.480608*[C12]

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NO-TILL CORN EARLY PREPLANT ROUNDUP

Trial ID: C5040
Protocol ID: Study Director: CHARLES H. SLACK
Location: LEXINGTON, KY Investigator: Charles H. Slack

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: 33 FT **Tillage Type:** NO-TILL
Replications: 4 **Study Design:** Randomized Complete Block

Trial Initiation Comments:

Field Prep./Maintenance:

Soil Description

Description Name: LANTON
% 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:	4-11-05	5-25-05	6-6-05
Time of Day:	10:30 AM	11 AM	2 PM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	4 WK	5 C	16C
Application Placement:	BROSOI	BROFOL	BROFOL
Applied By:	C. H. SLACK	C. H. SLACK	C. H. SLACK
Air Temperature, Unit:	76 F	68 F	75 F
% Relative Humidity:	45	40	30
Wind Velocity, Unit:	4 MPH	4 MPH	4 MPH
Wind Direction:	N	SW	SW
Soil Temperature, Unit:	58 F	73 F	80 F
Soil Moisture:	ADEQUATE	ADEQUATE	INADEQUATE
% Cloud Cover:	20	50	30

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NO-TILL CORN EARLY PREPLANT ROUNDUP

Trial ID: C5040
Protocol ID:
Location: LEXINGTON, KY

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

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	
Stage Majority, Percent:			5 C		16C	

Pest Stage At Each Application

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

Dept. of Agronomy, Univ. of Ky
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NO-TILL CORN EARLY PREPLANT II ROUNDUP

Trial ID: C5041
Protocol ID: Study Director: CHARLES H. SLACK
Location: LEXINGTON, KY Investigator: Charles H. Slack

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

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	1	2	3	4	5	6	7
1	CINCH ATZ	5.5	2.89	LB A/A	2WK	0	95	94	94	86	0	95
1	GRAMOXONE MAX	3	0.638	LB A/A	2WK							
1	WEEDONE LV4	3.8	0.5	LB A/A	2WK							
1	ACTIVATOR 90		0.25	% V/V	2WK							
1	STEADFAST	75	0.035	LB A/A	16C							
1	COC		1	QT/A	16C							
1	LIQUID N		2	QT/A	16C							
2	DEGREE XTRA	4.04	3.03	LB A/A	2WK	0	95	95	95	95	0	95
2	ROUNDUP WeatherMAX	4.5	0.75	LB AE/A	2WK							
2	WEEDONE LV4	3.8	0.5	LB A/A	2WK							
2	AMS		3.7	% V/V	2WK							
2	ROUNDUP WeatherMAX	4.5	0.75	LB AE/A	16C							
2	AMS		3.7	% V/V	16C							
3	CINCH ATZ	5.5	2.17	LB A/A	2WK	0	91	91	90	83	0	91
3	GRAMOXONE MAX	3	0.638	LB A/A	2WK							
3	WEEDONE LV4	3.8	0.5	LB A/A	2WK							
3	ACTIVATOR 90		0.25	% V/V	2WK							
3	STEADFAST	75	0.035	LB A/A	16C							
3	COC		1	QT/A	16C							
3	LIQUID N		2	QT/A	16C							
4	DEGREE XTRA	4.04	2.27	LB A/A	2WK	0	95	93	95	95	0	95
4	ROUNDUP WeatherMAX	4.5	0.75	LB AE/A	2WK							
4	WEEDONE LV4	3.8	0.5	LB A/A	2WK							
4	AMS		3.7	% V/V	2WK							
4	ROUNDUP WeatherMAX	4.5	0.75	LB AE/A	16C							
4	AMS		3.7	% V/V	16C							

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

NO-TILL CORN EARLY PREPLANT II ROUNDUP

Trial ID: C5041
Protocol ID: Study Director: CHARLES H. SLACK
Location: LEXINGTON, KY Investigator: Charles H. Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	IPOSS	CHEAL	SETFA
Pest Name	Giant foxtail	Giant Ragweed	Morning glory	Lambsquarters, common	Giant foxtail
Crop Code	ZEAMX				ZEAMX
BBCH Scale	BCOR				BCOR
Crop Name	Corn				Corn
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 AT HARVEST
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	1	2	3	4	5	6	7
5	CINCH ATZ	5.5	1.45	LB A/A	2WK	0	89	80	89	84	0	89
5	GRAMOXONE MAX	3	0.638	LB A/A	2WK							
5	WEEDONE LV4	3.8	0.5	LB A/A	2WK							
5	ACTIVATOR 90		0.25	% V/V	2WK							
5	STEADFAST	75	0.035	LB A/A	16C							
5	COC		1	QT/A	16C							
5	LIQUID N		2	QT/A	16C							
6	DEGREE XTRA	4.04	1.52	LB A/A	2WK	0	95	94	95	95	0	95
6	ROUNDUP WeatherMAX	4.5	0.75	LB AE/A	2WK							
6	WEEDONE LV4	3.8	0.5	LB A/A	2WK							
6	AMS		3.7	% V/V	2WK							
6	ROUNDUP WeatherMAX	4.5	0.75	LB AE/A	16C							
6	AMS		3.7	% V/V	16C							
7	GRAMOXONE MAX	3	0.638	LB A/A	2WK	0	80	88	89	75	0	80
7	AATREX	4	1	LB A/A	2WK							
7	WEEDONE LV4	3.8	0.5	LB A/A	2WK							
7	ACTIVATOR 90		0.25	% V/V	2WK							
7	STEADFAST	75	0.035	LB A/A	16C							
7	COC		1	QT/A	16C							
7	LIQUID N		2	QT/A	16C							
8	ROUNDUP WeatherMAX	4.5	0.75	LB AE/A	2WK	0	93	93	91	94	0	93
8	AATREX	4	1	LB A/A	2WK							
8	WEEDONE LV4	3.8	0.5	LB A/A	2WK							
8	AMS		3.7	% V/V	2WK							
8	ROUNDUP WeatherMAX	4.5	0.75	LB AE/A	16C							
8	AMS		3.7	% V/V	16C							
9	GRAMOXONE MAX	3	0.638	LB A/A	2WK	0	81	68	85	68	0	81
9	WEEDONE LV4	3.8	0.5	LB A/A	2WK							
9	ACTIVATOR 90		0.25	% V/V	2WK							
9	STEADFAST	75	0.035	LB A/A	16C							
9	COC		1	QT/A	16C							
9	LIQUID N		2	QT/A	16C							

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

NO-TILL CORN EARLY PREPLANT II ROUNDUP

Trial ID: C5041
Protocol ID: Study Director: CHARLES H. SLACK
Location: LEXINGTON, KY Investigator: Charles H. Slack

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

Trt Treatment	Form	Rate	Growth							
No. Name	Conc	Rate	Stage	1	2	3	4	5	6	7
10 ROUNDUP WeatherMAX	4.5	75. LB AE/A	2WK	0	94	90	90	94	0	94
10 WEEDONE LV4	3.8	0.5 LB A/A	2WK							
10 AMS		3.7 % V/V	2WK							
10 ROUNDUP WeatherMAX	4.5	0.75 LB AE/A	16C							
10 AMS		3.7 % V/V	16C							
LSD (P=.05)				0.0	5.8	12.2	4.8	8.6	0.0	5.8
Standard Deviation				0.0	4.0	8.4	3.3	5.9	0.0	4.0
CV				0.0	4.38	9.47	3.59	6.81	0.0	4.38
Grand Mean				0.0	90.75	88.48	91.2	86.75	0.0	90.75
Replicate F				0.000	0.474	0.738	1.172	0.788	0.000	0.474
Replicate Prob(F)				1.0000	0.7032	0.5384	0.3386	0.5112	1.0000	0.7032
Treatment F				0.000	8.263	4.181	4.119	10.671	0.000	8.263
Treatment Prob(F)				1.0000	0.0001	0.0018	0.0020	0.0001	1.0000	0.0001

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

NO-TILL CORN EARLY PREPLANT II ROUNDUP

Trial ID: C5041

Protocol ID:

Study Director: CHARLES H. SLACK

Location: LEXINGTON, KY

Investigator: Charles H. Slack

Pest Type	W Weed	W Weed	W Weed
Pest Code	AMBTR	IPOSS	CHEAL
Pest Name	Giant Ragweed Morning glory Lambsquarters, common		
Crop Code			ZEAMX
BBCH Scale			BCOR
Crop Name			Corn
Rating Data Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	AT HARVEST	AT HARVEST	AT HARVEST
ARM Action Codes	P	P	P
Number of Decimals	0	0	0

YIELD
BU
TY1
1

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	8	9	10	14
1	CINCH ATZ	5.5	2.89	LB A/A	2WK	94	94	86	121.1
1	GRAMOXONE MAX	3	0.638	LB A/A	2WK				
1	WEEDONE LV4	3.8	0.5	LB A/A	2WK				
1	ACTIVATOR 90		0.25	% V/V	2WK				
1	STEADFAST	75	0.035	LB A/A	16C				
1	COC		1	QT/A	16C				
1	LIQUID N		2	QT/A	16C				
2	DEGREE XTRA	4.04	3.03	LB A/A	2WK	95	95	95	118.2
2	ROUNDUP WeatherMAX	4.5	0.75	LB AE/A	2WK				
2	WEEDONE LV4	3.8	0.5	LB A/A	2WK				
2	AMS		3.7	% V/V	2WK				
2	ROUNDUP WeatherMAX	4.5	0.75	LB AE/A	16C				
2	AMS		3.7	% V/V	16C				
3	CINCH ATZ	5.5	2.17	LB A/A	2WK	91	90	85	124.5
3	GRAMOXONE MAX	3	0.638	LB A/A	2WK				
3	WEEDONE LV4	3.8	0.5	LB A/A	2WK				
3	ACTIVATOR 90		0.25	% V/V	2WK				
3	STEADFAST	75	0.035	LB A/A	16C				
3	COC		1	QT/A	16C				
3	LIQUID N		2	QT/A	16C				
4	DEGREE XTRA	4.04	2.27	LB A/A	2WK	93	95	95	115.8
4	ROUNDUP WeatherMAX	4.5	0.75	LB AE/A	2WK				
4	WEEDONE LV4	3.8	0.5	LB A/A	2WK				
4	AMS		3.7	% V/V	2WK				
4	ROUNDUP WeatherMAX	4.5	0.75	LB AE/A	16C				
4	AMS		3.7	% V/V	16C				

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NO-TILL CORN EARLY PREPLANT II ROUNDUP

Trial ID: C5041
Protocol ID: Study Director: CHARLES H. SLACK
Location: LEXINGTON, KY Investigator: Charles H. Slack

Pest Type	W Weed	W Weed	W Weed	
Pest Code	AMBTR	IPOSS	CHEAL	
Pest Name	Giant Ragweed Morning glory Lambsquarters, common			
Crop Code				ZEAMX
BBCH Scale				BCOR
Crop Name				Corn
Rating Data Type	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	BU
Trt-Eval Interval	AT HARVEST	AT HARVEST	AT HARVEST	
ARM Action Codes	P	P	P	TY1
Number of Decimals	0	0	0	1

Trt No.	Treatment Name	Form Conc	Rate	Rate Unit	Growth Stage	8	9	10	14
5	CINCH ATZ	5.5	1.45	LB A/A	2WK		80	89	84 97.5
5	GRAMOXONE MAX	3	0.638	LB A/A	2WK				
5	WEEDONE LV4	3.8	0.5	LB A/A	2WK				
5	ACTIVATOR 90		0.25	% V/V	2WK				
5	STEADFAST	75	0.035	LB A/A	16C				
5	COC		1	QT/A	16C				
5	LIQUID N		2	QT/A	16C				
6	DEGREE XTRA	4.04	1.52	LB A/A	2WK		93	95	95 126.9
6	ROUNDUP WeatherMAX	4.5	0.75	LB AE/A	2WK				
6	WEEDONE LV4	3.8	0.5	LB A/A	2WK				
6	AMS		3.7	% V/V	2WK				
6	ROUNDUP WeatherMAX	4.5	0.75	LB AE/A	16C				
6	AMS		3.7	% V/V	16C				
7	GRAMOXONE MAX	3	0.638	LB A/A	2WK		88	89	75 99.5
7	AATREX	4	1	LB A/A	2WK				
7	WEEDONE LV4	3.8	0.5	LB A/A	2WK				
7	ACTIVATOR 90		0.25	% V/V	2WK				
7	STEADFAST	75	0.035	LB A/A	16C				
7	COC		1	QT/A	16C				
7	LIQUID N		2	QT/A	16C				
8	ROUNDUP WeatherMAX	4.5	0.75	LB AE/A	2WK		93	91	94 110.4
8	AATREX	4	1	LB A/A	2WK				
8	WEEDONE LV4	3.8	0.5	LB A/A	2WK				
8	AMS		3.7	% V/V	2WK				
8	ROUNDUP WeatherMAX	4.5	0.75	LB AE/A	16C				
8	AMS		3.7	% V/V	16C				
9	GRAMOXONE MAX	3	0.638	LB A/A	2WK		68	85	68 100.7
9	WEEDONE LV4	3.8	0.5	LB A/A	2WK				
9	ACTIVATOR 90		0.25	% V/V	2WK				
9	STEADFAST	75	0.035	LB A/A	16C				
9	COC		1	QT/A	16C				
9	LIQUID N		2	QT/A	16C				

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NO-TILL CORN EARLY PREPLANT II ROUNDUP

Trial ID: C5041
Protocol ID: Study Director: CHARLES H. SLACK
Location: LEXINGTON, KY Investigator: Charles H. Slack

Pest Type	W Weed	W Weed	W Weed	
Pest Code	AMBTR	IPOSS	CHEAL	
Pest Name	Giant Ragweed Morning glory Lambsquarters, common			
Crop Code				ZEAMX
BBCH Scale				BCOR
Crop Name				Corn
Rating Data Type	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	BU
Trt-Eval Interval	AT HARVEST	AT HARVEST	AT HARVEST	
ARM Action Codes	P	P	P	TY1
Number of Decimals	0	0	0	1

Trt Treatment No. Name	Form Conc	Rate Rate	Growth Unit Stage	8	9	10	14
10 ROUNDUP WeatherMAX	4.5	75. LB AE/A	2WK	90	90	94	104.6
10 WEEDONE LV4	3.8	0.5 LB A/A	2WK				
10 AMS		3.7 % V/V	2WK				
10 ROUNDUP WeatherMAX	4.5	0.75 LB AE/A	16C				
10 AMS		3.7 % V/V	16C				
LSD (P=.05)				12.2	4.8	8.2	12.52
Standard Deviation				8.4	3.3	5.6	8.63
CV				9.51	3.59	6.47	7.71
Grand Mean				88.35	91.2	87.0	111.91
Replicate F				0.765	1.172	1.000	3.705
Replicate Prob(F)				0.5236	0.3386	0.4079	0.0236
Treatment F				4.081	4.119	11.544	6.373
Treatment Prob(F)				0.0021	0.0020	0.0001	0.0001

Column 11: TY1 = 6.000564*[C13]

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NO-TILL CORN EARLY PREPLANT II ROUNDUP

Trial ID: C5041
Protocol ID: Study Director: CHARLES H. SLACK
Location: LEXINGTON, KY Investigator: Charles H. Slack

General Trial Information

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

Trial Location

City: LEXINGTON **Trial Status:** COMPLETE
State/Prov.: KENTUCKY
Postal Code: 40511
Country: USA
Directions:

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

Crop 1: ZEAMX Zea mays Corn
Variety: DKC 61-45
BBCH Scale: BCOR **Planting Date:** 4-25-05
Planting Method: ROW **Rate, Unit:** 30000 P/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM **Soil Temperature, Unit:** 60 F
Soil Moisture: NORMAL **Emergence Date:** 5-10-05

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

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NO-TILL CORN EARLY PREPLANT II ROUNDUP

Trial ID: C5041
Protocol ID: Study Director: CHARLES H. SLACK
Location: LEXINGTON, KY Investigator: Charles H. Slack

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: 33 FT **Tillage Type:** NO-TILL
Replications: 4 **Study Design:** Randomized Complete Block

Trial Initiation Comments:

Field Prep./Maintenance:

Soil Description

Description Name: LANTON
% 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:	4-25-05	6-6-05
Time of Day:	3:30 PM	3:00 PM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	16C
Application Placement:	BROSUI	BROFOL
Applied By:	C. H. SLACK	C. H. SLACK
Air Temperature, Unit:	76 F	90 F
% Relative Humidity:	45	50
Wind Velocity, Unit:	4 MPH	4 MPH
Wind Direction:	N	SW
Soil Temperature, Unit:	58 F	80 F
Soil Moisture:	ADEQUATE	INADEQUATE
% Cloud Cover:	20	10

NO-TILL CORN EARLY PREPLANT II ROUNDUP

Trial ID: C5041
Protocol ID:
Location: LEXINGTON, KYStudy Director: CHARLES H. SLACK
Investigator: Charles H. Slack**Crop Stage At Each Application**

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH	BBCH
Stage Majority, Percent:		16C

Pest Stage At Each Application

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

Trial ID: C5042
 Protocol ID: Study Director: CHARLES H. SLACK
 Location: LEXINGTON, KY Investigator: Charles H. Slack

Pest Type	W Weed	W Weed	W Weed	
Pest Code	AMBTR	CHEAL	IPOSS	
Pest Name	Giant Ragweed Lambsquarters, common Morning glory			
Crop Code				ZEAMX
BBCH Scale				BCOR
Crop Name				Corn
Rating Data Type	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	BU
Trt-Eval Interval	AT HARVEST	AT HARVEST	AT HARVEST	
ARM Action Codes	P	P	P	TY1
Number of Decimals	0	0	0	1

Trt Treatment	Form	Rate	Growth		
No. Name	Conc	Rate	Unit	Stage	
				8	9
					10
					14

LSD (P=.05)	0.0	0.0	0.0	19.29
Standard Deviation	0.0	0.0	0.0	13.50
CV	0.0	0.0	0.0	12.09
Grand Mean	95.0	95.0	95.0	111.64
Replicate F	0.000	0.000	0.000	21.111
Replicate Prob(F)	1.0000	1.0000	1.0000	0.0001
Treatment F	0.000	0.000	0.000	2.288
Treatment Prob(F)	1.0000	1.0000	1.0000	0.0165

Column 11: TY1 = 5.761905*[C12]*(100-[C13])/85

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NO-TILL CORN ROUNDUP READY VARIETIES

Trial ID: C5042
Protocol ID:
Location: LEXINGTON, KY

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

Crop 3: ZEAMX Zea mays

Corn

Variety: 34B62

BBCH Scale: BCOR
Planting Method: ROW
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM
Soil Moisture: NORMAL

Planting Date: 4-25-05
Rate, Unit: 30000 S/A

Soil Temperature, Unit: 53 F
Emergence Date: 5-9-05

Crop 4: ZEAMX Zea mays

Corn

Variety: 34B20

BBCH Scale: BCOR
Planting Method: ROW
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM
Soil Moisture: NORMAL

Planting Date: 4-25-05
Rate, Unit: 30000 S/A

Soil Temperature, Unit: 53 F
Emergence Date: 5-9-05

Crop 5: ZEAMX Zea mays

Corn

Variety: DKC 61-44

BBCH Scale: BCOR
Planting Method: ROW
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM
Soil Moisture: NORMAL

Planting Date: 4-25-05
Rate, Unit: 30000 S/A

Soil Temperature, Unit: 53 F
Emergence Date: 5-9-05

Crop 6: ZEAMX Zea mays

Corn

Variety: DKC 61-45

BBCH Scale: BCOR
Planting Method: ROW
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM
Soil Moisture: NORMAL

Planting Date: 4-25-05
Rate, Unit: 30000 S/A

Soil Temperature, Unit: 53 F
Emergence Date: 5-9-05

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

NO-TILL CORN ROUNDUP READY VARIETIES

Trial ID: C5042
Protocol ID:
Location: LEXINGTON, KY

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

Crop 7: ZEAMX Zea mays

Corn

Variety: 33P55

BBCH Scale: BCOR

Planting Date: 4-25-05

Planting Method: ROW

Rate, Unit: 30000 S/A

Depth, Unit: 1.5 IN

Row Spacing, Unit: 30 IN

Seed Bed: MEDIUM

Soil Temperature, Unit: 53 F

Soil Moisture: NORMAL

Emergence Date: 5-9-05

Crop 8: ZEAMX Zea mays

Corn

Variety: 33P70

BBCH Scale: BCOR

Planting Date: 4-25-05

Planting Method: ROW

Rate, Unit: 30000 S/A

Depth, Unit: 1.5 IN

Row Spacing, Unit: 30 IN

Seed Bed: MEDIUM

Soil Temperature, Unit: 53 F

Soil Moisture: NORMAL

Emergence Date: 5-9-05

Pest Description

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

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

Pest 3 Type: W **Code:** CHEAL *Chenopodium album*
Common Name: Lambsquarters, common

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: 33 FT

Tillage Type: NO-TILL

Replications: 4

Study Design: Split-Block

Trial Initiation Comments:

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

NO-TILL CORN ROUNDUP READY VARIETIES

Trial ID: C5042
Protocol ID: Study Director: CHARLES H. SLACK
Location: LEXINGTON, KY Investigator: Charles H. Slack

Field Prep./Maintenance:

Soil Description

Description Name: MAURY
% Sand: 6 % OM: 2.7 **Texture:** SILT LOAM
% Silt: 64 pH: 6.5 **Soil Name:** MAURY
% Clay: 30 CEC: 17 **Fert. Level:** EXCELLENT

Moisture Conditions

Overall Moisture Conditions: NORMAL
Closest Weather Station: SPINDLETOP **Distance:** 135 **Unit:** MI

Application Description

	A	B
Application Date:	4-18-05	6-6-05
Time of Day:	3 PM	10 AM
Application Method:	SPRAY	SPRAY
Application Timing:	1 WK	16C
Application Placement:	BROFOL	BROFOL
Applied By:	C. H. SLACK	C. H. SLACK
Air Temperature, Unit:	75 F	90 F
% Relative Humidity:	50	70
Wind Velocity, Unit:	4 MPH	4 MPH
Wind Direction:	SW	SW
Soil Temperature, Unit:	56 F	85 F
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	10	10

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NO-TILL CORN ROUNDUP READY VARIETIES

Trial ID: C5042
Protocol ID:
Location: LEXINGTON, KY

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

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	16 C	
Crop 2 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	16 C	
Crop 3 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	16 C	
Crop 4 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	16 C	
Crop 5 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	16 C	
Crop 6 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	16 C	
Crop 7 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	16 C	
Crop 8 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	16 C	

Pest Stage At Each Application

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

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NO-TILL CORN ROUNDUP READY VARIETIES

Trial ID: C5042
Protocol ID:
Location: LEXINGTON, KY

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

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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NO-TILL CORN ROUNDUP READY

Trial ID: C5043
Protocol ID:
Location: LEXINGTON, KY

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

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

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	1	2	3	4	5	9
1	DEGREE XTRA	4.04	3	QT/A	PRE	0	95	97	95	97	133.6
1	ROUNDUP WeatherMAX	5.5	22	FL OZ/A	PRE						
1	AMS		3.7	% V/V	PRE						
1	ROUNDUP WeatherMAX	5.5	22	FL OZ/A	20C						
1	AMS		3.7	% V/V	20C						
2	DEGREE XTRA	4.04	3	QT/A	PRE	0	93	89	93	89	110.8
2	ROUNDUP WeatherMAX	5.5	22	FL OZ/A	PRE						
2	AMS		3.7	% V/V	PRE						
2	STEADFAST	75	0.75	OZ/A	20C						
2	COC		1	QT/A	20C						
2	LIQUID N		2	QT/A	20C						
3	DEGREE XTRA	4.04	3	QT/A	PRE	0	95	86	95	81	102.3
3	ROUNDUP WeatherMAX	5.5	22	FL OZ/A	PRE						
3	AMS		3.7	% V/V	PRE						
3	ACCENT	75	0.5	OZ/A	20C						
3	COC		1	QT/A	20C						
3	LIQUID N		2	QT/A	20C						
4	DEGREE XTRA	4.04	3	QT/A	PRE	0	95	95	95	95	136.0
4	ROUNDUP WeatherMAX	5.5	22	FL OZ/A	PRE						
4	AMS		3.7	% V/V	PRE						
4	CELEBRITY PLUS	70	4.7	OZ/A	20C						
4	ACTIVATOR 90		0.25	% V/V	20C						
4	LIQUID N		2	QT/A	20C						
5	DEGREE XTRA	4.04	3	QT/A	PRE	0	93	95	93	95	131.0
5	ROUNDUP WeatherMAX	5.5	22	FL OZ/A	PRE						
5	AMS		3.7	% V/V	PRE						
5	STEADFAST	75	0.75	OZ/A	20C						
5	CALLISTO	4	3	FL OZ/A	20C						
5	COC		1	QT/A	20C						
5	LIQUID N		2	QT/A	20C						

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NO-TILL CORN ROUNDUP READY

Trial ID: C5043
Protocol ID:
Location: LEXINGTON, KY

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

Pest Type		W Weed	W Weed	W Weed	W Weed	
Pest Code		SETFA	AMBTR	SETFA	AMBTR	
Pest Name		Giant foxtail	Giant Ragweed	Giant foxtail	Giant Ragweed	
Crop Code	ZEAMX					ZEAMX
BBCH Scale	BCOR					BCOR
Crop Name	Corn					Corn
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	BU
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	AT HARVEST	AT HARVEST	
ARM Action Codes	P	P	P	P	P	TY1
Number of Decimals	0	0	0	0	0	1

Trt Treatment No. Name	Form Conc	Rate Rate	Growth Unit	Stage	1	2	3	4	5	9
6 DEGREE XTRA	4.04	3	QT/A	PRE	0	93	93	93	93	131.4
6 ROUNDUP WeatherMAX	5.5	22	FL OZ/A	PRE						
6 AMS		3.7	% V/V	PRE						
6 SPIRIT	57	1	OZ/A	20C						
6 COC		1	QT/A	20C						
6 LIQUID N		2	QT/A	20C						
LSD (P=.05)					0.0	2.9	4.3	2.9	3.3	19.64
Standard Deviation					0.0	1.9	2.8	1.9	2.2	13.03
CV					0.0	2.03	3.06	2.03	2.39	10.49
Grand Mean					0.0	93.75	92.42	93.75	91.58	124.18
Replicate F					0.000	1.923	0.354	1.923	0.477	33.586
Replicate Prob(F)					1.0000	0.1692	0.7868	0.1692	0.7032	0.0001
Treatment F					0.000	2.077	8.583	2.077	28.186	4.640
Treatment Prob(F)					1.0000	0.1253	0.0005	0.1253	0.0001	0.0093

Column 6: TY1 = 5.761905*[C7]*(100-[C8])/84.5

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NO-TILL CORN ROUNDUP READY

Trial ID: C5043
Protocol ID:
Location: LEXINGTON, KY

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

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**

Description Name: LANTON		
% 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:	4-25-05	6-3-05
Time of Day:	4 PM	4:30 pm
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	20 C
Application Placement:	BROFOL	BROFOL
Applied By:	C. H. SLACK	C. H. SLACK
Air Temperature, Unit:	60 F	74 F
% Relative Humidity:	50	60
Wind Velocity, Unit:	4 MPH	2 MPH
Wind Direction:	SW	SW
Soil Temperature, Unit:	55 F	72 F
Soil Moisture:	ADEQUATE	
% Cloud Cover:	20	50

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NO-TILL CORN ROUNDUP READY

Trial ID: C5043
Protocol ID:
Location: LEXINGTON, KY

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

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	V6	
Height, Unit:	20	IN

Pest Stage At Each Application

	A	B
Pest 1 Code, Disc., Scale:	SETFA W	SETFA W
Stage Majority, Percent:	2 LF	
Height, Unit:	2	IN
Pest 2 Code, Disc., Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:	6 LF	
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	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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NO TILL CORN ROUNDUP READY II

Trial ID: C5044
Protocol ID: Study Director: CHARLES H. SLACK
Location: LEXINGTON, KY 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				ZEAMX
BBCH Scale				BCOR
Crop Name				Corn
Rating Data Type	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	BU
Trt-Eval Interval	4WK AF POST	4WK AF POST	4WK AF POST	
ARM Action Codes	P	P	P	TY1
Number of Decimals	0	0	0	1

Trt Treatment No. Name	Form Conc	Rate Rate	Unit Unit	Growth Stage	9	10	11	14
1 LUMAX	3.94	2.96	LB A/A	PRE	95	75	84	85.3
1 TOUCHDOWN TOTAL	4.17	24	FL OZ/A	PRE				
1 AMS		3.7	% V/V	PRE				
2 BALANCE PRO	4	0.078	LB A/A	PRE	95	55	71	62.7
2 DEFINE	3.99	0.65	LB A/A	PRE				
2 TOUCHDOWN TOTAL	4.17	24	FL OZ/A	PRE				
2 AMS		3.7	% V/V	PRE				
3 HARNESS XTRA	6	1.8	LB A/A	PRE	95	81	88	93.8
3 ROUNDUP WeatherMAX	5.5	22	FL OZ/A	PRE				
3 AMS		3.7	% V/V	PRE				
3 ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	16C				
3 AMS		3.7	% V/V	16C				
4 DEGREE XTRA	4.04	2.02	LB A/A	PRE	95	80	86	88.5
4 ROUNDUP WeatherMAX	5.5	22	FL OZ/A	PRE				
4 AMS		3.7	% V/V	PRE				
4 ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	16C				
4 AMS		3.7	% V/V	16C				
5 DEGREE XTRA	4.04	2.02	LB A/A	5C	95	80	85	95.1
5 ROUNDUP ORIGINAL MAX	4.5	0.75	LB AE/A	5C				
5 AMS		3.7	% V/V	5C				
6 LUMAX	3.94	1.97	LB A/A	5C	95	90	90	87.3
6 TOUCHDOWN TOTAL	4.17	0.78	LB AE/A	5C				
6 AMS		3.7	% V/V	5C				
7 LEXAR	3.7	3.24	LB A/A	PRE	95	89	88	81.2
7 ROUNDUP WeatherMAX	5.5	22	FL OZ/A	PRE				
7 AMS		3.7	% V/V	PRE				

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NO TILL CORN ROUNDUP READY II

Trial ID: C5044
Protocol ID: Study Director: CHARLES H. SLACK
Location: LEXINGTON, KY 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				ZEAMX
BBCH Scale				BCOR
Crop Name				Corn
Rating Data Type	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	BU
Trt-Eval Interval	4WK AF POST	4WK AF POST	4WK AF POST	
ARM Action Codes	P	P	P	TY1
Number of Decimals	0	0	0	1

Trt Treatment	Form	Rate	Growth		
No. Name	Conc Rate	Unit	Stage	9	10 11 14

LSD (P=.05)	0.0	9.0	6.2	16.99
Standard Deviation	0.0	6.1	4.2	11.44
CV	0.0	7.74	4.92	13.48
Grand Mean	95.0	78.57	84.46	84.85
Replicate F	0.000	0.193	1.845	3.069
Replicate Prob(F)	1.0000	0.8998	0.1752	0.0543
Treatment F	0.000	14.662	8.793	3.607
Treatment Prob(F)	1.0000	0.0001	0.0001	0.0159

Column 12: TY1 = 5.761905*[C12]*(100-[C13])/85

NO TILL CORN ROUNDUP READY II

Trial ID: C5044
Protocol ID:
Location: LEXINGTON, KY

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

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

Description Name: MAURY
% Sand: 6 % OM: 2.7 Texture: SILT LOAM
% Silt: 64 pH: 6.5 Soil Name: MAURY
% Clay: 30 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:	4-25-05	5-25-05
Time of Day:	4 PM	3 PM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	5C
Application Placement:	BROFOL	BROFOL
Applied By:	C. H. SLACK	C. H. SLACK
Air Temperature, Unit:	60 F	68 F
% Relative Humidity:	50	50
Wind Velocity, Unit:	4 MPH	4 MPH
Wind Direction:	SW	SW
Soil Temperature, Unit:	55 F	69 F
Soil Moisture:	ADEQUATE	ADEQUATE
% Cloud Cover:	20	10

NO TILL CORN ROUNDUP READY II

Trial ID: C5044
Protocol ID:
Location: LEXINGTON, KYStudy Director: CHARLES H. SLACK
Investigator: Charles H. Slack**Crop Stage At Each Application**

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

Pest Stage At Each Application

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

CORN FALL BURNDOWN

Trial ID: FBC4002

Protocol ID:

Location: LEXINGTON, KY

Study Director: CHARLES H. SLACK

Investigator: Charles H. Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	
Pest Code	STEME	LAMAM	TAROF	STEME	LAMAM	TAROF	STEME	LAMAM	TAROF	
Pest Name	Common chickweed	Henbit	Common dandelion	Common chickweed	Henbit	Common dandelion	Giant foxtail	foxtail	SETFA	
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
Trt-Eval Interval	FALL	FALL	FALL	FALL	FALL	FALL	FALL	FALL	FALL	
ARM Action Codes	P	P	P	P	P	P	P	P	P	
Number of Decimals	0	0	0	0	0	0	0	0	0	
Trt Treatment No. Name	Form Conc	Rate Rate Unit	Growth Stage	1	2	3	4	5	6	7
1 PRINCEP	4	1 QT/A	FALL		97	97	97	97	97	99
1 LEXAR	3.7	3 QT/A	SPRING							
2 PRINCEP	4	1 QT/A	FALL	100	100	100	100	100	100	99
2 GRAMOXONE MAX	3	1 PT/A	FALL							
2 COC		1 % V/V	FALL							
2 LIQUID N		2 % V/V	FALL							
2 LEXAR	3.7	3 QT/A	SPRING							
3 PRINCEP	4	1 QT/A	FALL	98	98	98	98	98	98	99
3 TOUCHDOWN TOTAL	4.17	24 OZ/A	FALL							
3 AMS	100	17 LB A/100 GAL	FALL							
3 LEXAR	3.7	3 QT/A	SPRING							
4 TOUCHDOWN TOTAL	4.17	24 OZ/A	FALL	100	100	100	100	100	100	99
4 LEXAR	3.7	3 QT/A	SPRING							
5 GRAMOXONE MAX	3	1.5 PT/A	FALL	100	100	70	100	100	70	99
5 COC		1 % V/V	FALL							
5 LIQUID N		2 % V/V	FALL							
5 LEXAR	3.7	3 QT/A	SPRING							
6 ROUNDUP WeatherMAX	5.5	22 OZ/A	FALL	100	100	100	100	100	100	99
6 LEXAR	3.7	3 QT/A	SPRING							
LSD (P=.05)				5.0	5.0	39.5	5.0	5.0	39.5	0.0
Standard Deviation				2.7	2.7	21.7	2.7	2.7	21.7	0.0
CV				2.76	2.76	23.08	2.76	2.76	23.08	0.0
Grand Mean				99.17	99.17	94.17	99.17	99.17	94.17	99.0
Replicate F				0.556	0.556	0.802	0.556	0.556	0.802	0.000
Replicate Prob(F)				0.5905	0.5905	0.4751	0.5905	0.5905	0.4751	1.0000
Treatment F				0.778	0.778	0.901	0.778	0.778	0.901	0.000
Treatment Prob(F)				0.5875	0.5875	0.5165	0.5875	0.5875	0.5165	1.0000

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CORN FALL BURNDOWN

Trial ID: FBC4002

Protocol ID:

Location: LEXINGTON, KY

Study Director: CHARLES H. SLACK

Investigator: Charles H. Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	AMBTR	SETFA	AMBTR	SETFA	AMBTR			
Pest Name	Giant Ragweed	Giant foxtail	Giant Ragweed	Giant foxtail	Giant Ragweed			
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	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	0	0			
Trt Treatment No. Name	Form Conc	Rate Rate Unit	Growth Stage	8	9	10	11	12
1 PRINCEP	4	1 QT/A	FALL	95	95	95	95	95
1 LEXAR	3.7	3 QT/A	SPRING					
2 PRINCEP	4	1 QT/A	FALL	95	95	95	95	95
2 GRAMOXONE MAX	3	1 PT/A	FALL					
2 COC		1 % V/V	FALL					
2 LIQUID N		2 % V/V	FALL					
2 LEXAR	3.7	3 QT/A	SPRING					
3 PRINCEP	4	1 QT/A	FALL	95	95	95	95	95
3 TOUCHDOWN TOTAL	4.17	24 OZ/A	FALL					
3 AMS	100	17 LB A/100 GAL	FALL					
3 LEXAR	3.7	3 QT/A	SPRING					
4 TOUCHDOWN TOTAL	4.17	24 OZ/A	FALL	95	95	95	95	95
4 LEXAR	3.7	3 QT/A	SPRING					
5 GRAMOXONE MAX	3	1.5 PT/A	FALL	95	95	95	95	95
5 COC		1 % V/V	FALL					
5 LIQUID N		2 % V/V	FALL					
5 LEXAR	3.7	3 QT/A	SPRING					
6 ROUNDUP WeatherMAX	5.5	22 OZ/A	FALL	95	95	95	95	95
6 LEXAR	3.7	3 QT/A	SPRING					
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				95.0	95.0	95.0	95.0	95.0
Replicate F				0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)				1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F				0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)				1.0000	1.0000	1.0000	1.0000	1.0000

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CORN FALL BURNDOWN

Trial ID: FBC4002

Protocol ID:

Location: LEXINGTON, KY

Study Director: CHARLES H. SLACK

Investigator: Charles H. Slack

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

Site and Design

Plot Width, Unit: 6.66 FT **Site Type:** FIELD
Plot Length, Unit: 33 FT **Tillage Type:** NO-TILL
Replications: 3 **Study Design:** Randomized Complete Block

Trial Initiation Comments:

Field Prep./Maintenance:

Soil Description

Description Name: MAURY
% Sand: 6 **% OM:** 2.7 **Texture:** SILT LOAM
% Silt: 64 **pH:** 6.5 **Soil Name:** MAURY
% Clay: 30 **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:	11-29-04	5-5-05
Time of Day:	3 PM	2 PM
Application Method:	SPRAY	SPRAY
Application Timing:	FALL	SPRING
Application Placement:	BROFOL	BROFOL
Applied By:	C. H. SLACK	C. H. SLACK
Air Temperature, Unit:	45 F	65 F
% Relative Humidity:	30	30
Wind Velocity, Unit:	4 MPH	4 MPH
Wind Direction:	SW	SW
Soil Temperature, Unit:	40 F	65 F
Soil Moisture:	EXCESSIVE	ADEQUATE
% Cloud Cover:	80	30

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CORN FALL BURNDOWN

Trial ID: FBC4002
Protocol ID:
Location: LEXINGTON, KY

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

Crop Stage At Each Application

A **B**

Crop 1 Code, BBCH Scale: ZEAMX BCOR ZEAMX BCOR

Pest Stage At Each Application

A **B**

Pest 1 Code, Disc., Scale: STEME W STEME W
Stage Minimum, Percent: S
Height, Unit: 4 IN
Pest 2 Code, Disc., Scale: LAMAM W LAMAM W
Height, Unit: 4 IN
Pest 3 Code, Disc., Scale: TAROF W TAROF W
Height, Unit: 2 IN
Pest 4 Code, Disc., Scale: SETFA W SETFA W
Height, Unit: 2 IN
Pest 5 Code, Disc., Scale: AMBTR W AMBTR W
Height, Unit: 4 IN

Application Equipment

A **B**

Appl. Equipment: ATV ATV
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: 6.66 FT 6.66 FT
Boom Height, Unit: 19 IN 19 IN
Ground Speed, Unit: 4 MPH 4 MPH
Carrier: WATER WATER
Spray Volume: 24 24
Volume Unit: GPA GPA
Propellant: CO2 CO2

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SOYBEAN FALL BURNDOWN

Trial ID: FBS4003
Protocol ID:
Location: LEXINGTON, KY

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

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	
Pest Code	STEME	LAMAM	TAROF	STEME	LAMAM	TAROF	STEME	LAMAM	TAROF	SETFA	
Pest Name	Common chickweed	Henbit	Common dandelion	Common chickweed	Henbit	Common dandelion				Giant foxtail	
Crop Code										GLXMA	
BBCH Scale										BSOY	
Crop Name										Soybean	
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
Trt-Eval Interval	FALL	FALL	FALL	FALL	FALL	FALL	FALL	FALL	FALL	FALL	
ARM Action Codes	P	P	P	P	P	P	P	P	P	P	
Number of Decimals	0	0	0	0	0	0	0	0	0	0	
Trt Treatment	Form	Rate	Growth	1	2	3	4	5	6	7	8
No. Name	Conc	Rate	Stage								
7 A14354A	5.32	1.5 PT/A	FALL	99	99	62	99	99	62	0	99
7 GRAMOXONE MAX	3	1.5 PT/A	FALL								
7 COC		1 PT/A	FALL								
7 LIQUID N		2 % V/V	FALL								
7 TOUCHDOWN TOTAL	4.17	24 OZ/A	SPR MP								
7 AMS	100	17 LB A/100 GAL	SPR MP								
8 A14354A	5.32	2 PT/A	FALL	99	99	63	99	99	63	0	99
8 GRAMOXONE MAX	3	1.5 PT/A	FALL								
8 COC		1 PT/A	FALL								
8 LIQUID N		2 % V/V	FALL								
8 TOUCHDOWN TOTAL	4.17	24 OZ/A	SPR MP								
8 AMS	100	17 LB A/100 GAL	SPR MP								
9 CANOPY EX	75	1.1 OZ/A	FALL	99	99	99	99	99	99	0	99
9 GRAMOXONE MAX	3	1.5 PT/A	FALL								
9 COC		1 PT/A	FALL								
9 LIQUID N		2 % V/V	FALL								
9 TOUCHDOWN TOTAL	4.17	24 OZ/A	SPR MP								
9 AMS	100	17 LB A/100 GAL	SPR MP								
10 CHECK UNTREATED			FALL	0	0	0	0	0	0	0	99
10 TOUCHDOWN TOTAL	4.17	24 OZ/A	SPR MP								
10 AMS	100	17 LB A/100 GAL	SPR MP								
LSD (P=.05)		11.9	20.5	36.1	11.9	20.5	36.1	0.0	0.0	0.0	0.0
Standard Deviation		6.9	11.9	21.0	6.9	11.9	21.0	0.0	0.0	0.0	0.0
CV		10.52	17.87	37.78	10.52	17.87	37.78	0.0	0.0	0.0	0.0
Grand Mean		65.73	66.73	55.7	65.73	66.73	55.7	0.0	0.0	99.0	
Replicate F		0.070	0.375	2.404	0.070	0.375	2.404	0.000	0.000	0.000	
Replicate Prob(F)		0.9329	0.6925	0.1187	0.9329	0.6925	0.1187	1.0000	1.0000	1.0000	
Treatment F		119.128	38.556	7.026	119.128	38.556	7.026	0.000	0.000	0.000	
Treatment Prob(F)		0.0001	0.0001	0.0002	0.0001	0.0001	0.0002	1.0000	1.0000	1.0000	

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SOYBEAN FALL BURNDOWN

Trial ID: FBS4003
Protocol ID:
Location: LEXINGTON, KY

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

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	CHEAL	SETFA	AMBTR	CHEAL
Pest Name	Giant Ragweed Lambsquarters, common		Giant foxtail Giant Ragweed Lambsquarters, common		
Crop Code			GLXMA	GLXMA	
BBCH Scale			BSOY	BSOY	
Crop Name			Soybean	Soybean	
Rating Data Type	CONTROL	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 No.	Treatment Name	Form	Rate	Unit	Growth Stage	9	10	11	12	13	14	15
1	A14354A	5.32	1	PT/A	FALL	99		0	99	99	99	0
1	COC		1	PT/A	FALL							
1	LIQUID N		2	% V/V	FALL							
1	TOUCHDOWN TOTAL	4.17	24	OZ/A	SPR MP							
1	AMS	100	17	LB A/100 GAL	SPR MP							
2	A14354A	5.32	1.5	PT/A	FALL	99		0	99	99	99	0
2	COC		1	PT/A	FALL							
2	LIQUID N		2	% V/V	FALL							
2	TOUCHDOWN TOTAL	4.17	24	OZ/A	SPR MP							
2	AMS	100	17	LB A/100 GAL	SPR MP							
3	A14354A	5.32	2	PT/A	FALL	99		0	99	99	99	0
3	COC		1	PT/A	FALL							
3	LIQUID N		2	% V/V	FALL							
3	TOUCHDOWN TOTAL	4.17	24	OZ/A	SPR MP							
3	AMS	100	17	LB A/100 GAL	SPR MP							
4	CANOPY EX	75	1.1	OZ/A	FALL	99		0	99	99	99	0
4	TOUCHDOWN TOTAL	4.17	24	OZ/A	SPR MP							
4	AMS	100	17	LB A/100 GAL	SPR MP							
5	GRAMOXONE MAX	3	1.5	PT/A	FALL	99		0	99	99	99	0
5	COC		1	PT/A	FALL							
5	LIQUID N		2	% V/V	FALL							
5	TOUCHDOWN TOTAL	4.17	24	OZ/A	SPR MP							
5	AMS	100	17	LB A/100 GAL	SPR MP							
6	A14354A	5.32	1	PT/A	FALL	99		0	99	99	99	0
6	GRAMOXONE MAX	3	1.5	PT/A	FALL							
6	COC		1	PT/A	FALL							
6	LIQUID N		2	% V/V	FALL							
6	TOUCHDOWN TOTAL	4.17	24	OZ/A	SPR MP							
6	AMS	100	17	LB A/100 GAL	SPR MP							

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SOYBEAN FALL BURNDOWN

Trial ID: FBS4003
Protocol ID:
Location: LEXINGTON, KY

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

Pest Type			
Pest Code	SETFA	AMBTR	CHEAL
Pest Name	Giant foxtail	Giant Ragweed	Lambsquarters, common
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 No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	16	17	18
1	A14354A	5.32	1	PT/A	FALL	99	99	99
1	COC		1	PT/A	FALL			
1	LIQUID N		2	% V/V	FALL			
1	TOUCHDOWN TOTAL	4.17	24	OZ/A	SPR MP			
1	AMS	100	17	LB A/100 GAL	SPR MP			
2	A14354A	5.32	1.5	PT/A	FALL	99	99	99
2	COC		1	PT/A	FALL			
2	LIQUID N		2	% V/V	FALL			
2	TOUCHDOWN TOTAL	4.17	24	OZ/A	SPR MP			
2	AMS	100	17	LB A/100 GAL	SPR MP			
3	A14354A	5.32	2	PT/A	FALL	99	99	99
3	COC		1	PT/A	FALL			
3	LIQUID N		2	% V/V	FALL			
3	TOUCHDOWN TOTAL	4.17	24	OZ/A	SPR MP			
3	AMS	100	17	LB A/100 GAL	SPR MP			
4	CANOPY EX	75	1.1	OZ/A	FALL	99	99	99
4	TOUCHDOWN TOTAL	4.17	24	OZ/A	SPR MP			
4	AMS	100	17	LB A/100 GAL	SPR MP			
5	GRAMOXONE MAX	3	1.5	PT/A	FALL	99	99	99
5	COC		1	PT/A	FALL			
5	LIQUID N		2	% V/V	FALL			
5	TOUCHDOWN TOTAL	4.17	24	OZ/A	SPR MP			
5	AMS	100	17	LB A/100 GAL	SPR MP			
6	A14354A	5.32	1	PT/A	FALL	99	99	99
6	GRAMOXONE MAX	3	1.5	PT/A	FALL			
6	COC		1	PT/A	FALL			
6	LIQUID N		2	% V/V	FALL			
6	TOUCHDOWN TOTAL	4.17	24	OZ/A	SPR MP			
6	AMS	100	17	LB A/100 GAL	SPR MP			

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SOYBEAN FALL BURNDOWN

Trial ID: FBS4003
Protocol ID:
Location: LEXINGTON, KY

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

Pest Type			
Pest Code	SETFA	AMBTR	CHEAL
Pest Name	Giant foxtail	Giant Ragweed	Lambsquarters, common
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 No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	16	17	18
7	A14354A	5.32	1.5	PT/A	FALL	99	99	99
7	GRAMOXONE MAX	3	1.5	PT/A	FALL			
7	COC		1	PT/A	FALL			
7	LIQUID N		2	% V/V	FALL			
7	TOUCHDOWN TOTAL	4.17	24	OZ/A	SPR MP			
7	AMS	100	17	LB A/100 GAL	SPR MP			
8	A14354A	5.32	2	PT/A	FALL	99	99	99
8	GRAMOXONE MAX	3	1.5	PT/A	FALL			
8	COC		1	PT/A	FALL			
8	LIQUID N		2	% V/V	FALL			
8	TOUCHDOWN TOTAL	4.17	24	OZ/A	SPR MP			
8	AMS	100	17	LB A/100 GAL	SPR MP			
9	CANOPY EX	75	1.1	OZ/A	FALL	99	99	99
9	GRAMOXONE MAX	3	1.5	PT/A	FALL			
9	COC		1	PT/A	FALL			
9	LIQUID N		2	% V/V	FALL			
9	TOUCHDOWN TOTAL	4.17	24	OZ/A	SPR MP			
9	AMS	100	17	LB A/100 GAL	SPR MP			
10	CHECK UNTREATED				FALL	99	90	99
10	TOUCHDOWN TOTAL	4.17	24	OZ/A	SPR MP			
10	AMS	100	17	LB A/100 GAL	SPR MP			
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	98.1	99.0
Replicate F						0.000	0.000	0.000
Replicate Prob(F)						1.0000	1.0000	1.0000
Treatment F						0.000	0.000	0.000
Treatment Prob(F)						1.0000	1.0000	1.0000

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SOYBEAN FALL BURNDOWN

Trial ID: FBS4003
Protocol ID:
Location: LEXINGTON, KY

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

Application Description

	A	B
Application Date:	11-29-04	5-14-05
Time of Day:	3 PM	4 PM
Application Method:	SPRAY	SPRAY
Application Timing:	FALL	SPRING/MP
Application Placement:	BROFOL	BROFOL
Applied By:	C. H. SLACK	C. H. SLACK
Air Temperature, Unit:	45 F	65 F
% Relative Humidity:	40	50
Wind Velocity, Unit:	5 MPH	3 MPH
Wind Direction:	SW	SW
Soil Temperature, Unit:	40 F	65 F
Soil Moisture:	EXCESSIVE	ADEQUATE
% Cloud Cover:	90	10

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:		BBCH
Stage Majority, Percent:		1 TR

Pest Stage At Each Application

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

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SOYBEAN FALL BURNDOWN

Trial ID: FBS4003
Protocol ID:
Location: LEXINGTON, KY

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

Application Equipment

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

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SOYBEAN POSTEMERGENCE

Trial ID: S5014
 Protocol ID: Study Director: CHARLES H. SLACK
 Location: LEXINGTON, KY Investigator: Charles H. Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	IPOSS	SETFA	AMBTR	ABUTH	IPOSS
Pest Name	Morning glory	Giant foxtail	Giant Ragweed	Velvetleaf	Morning glory
Crop Code	GLXMA				
BBCH Scale	BSOY				
Crop Name	Soybean				
Rating Data Type	CONTROL	CONTROL	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 No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	10	11	12	13	14	15
1	CHECK UNTREATED					0	0	0	0	0	0
2	ROUNDUP WeatherMAX	5.5	22	FL OZ/A	LP	88	0	85	87	95	82
2	AMS	100	2.5	LB A/A	LP						
3	VALOR SX	51	1.5	OZ/A	PRE	88	0	93	91	99	83
3	FIRSTRATE	84	0.3	OZ/A	PRE						
3	ROUNDUP WeatherMAX	5.5	22	FL OZ/A	LP						
3	AMS	100	2.5	LB A/A	LP						
4	VALOR SX	51	2	OZ/A	PRE	87	0	90	93	99	83
4	FIRSTRATE	84	0.4	OZ/A	PRE						
4	ROUNDUP WeatherMAX	5.5	22	FL OZ/A	LP						
4	AMS	100	2.5	LB A/A	LP						
5	VALOR SX	51	2.5	OZ/A	PRE	90	0	85	93	99	85
5	FIRSTRATE	84	0.5	OZ/A	PRE						
5	ROUNDUP WeatherMAX	5.5	22	FL OZ/A	LP						
5	AMS	100	2.5	LB A/A	LP						
LSD (P=.05)						3.5	0.0	11.2	6.1	3.8	5.8
Standard Deviation						1.9	0.0	5.9	3.2	2.0	3.1
CV						2.65	0.0	8.43	4.42	2.57	4.64
Grand Mean						70.67	0.0	70.6	72.8	78.33	66.67
Replicate F						1.498	0.000	0.294	1.466	1.000	1.217
Replicate Prob(F)						0.2802	1.0000	0.7531	0.2867	0.4096	0.3455
Treatment F						1332.559	0.000	132.992	481.328	1417.172	435.217
Treatment Prob(F)						0.0001	1.0000	0.0001	0.0001	0.0001	0.0001

SOYBEAN POSTEMERGENCE

Trial ID: S5014
 Protocol ID:
 Location: LEXINGTON, KY

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

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:	3 TR	
Height, Unit:	6	IN

Pest Stage At Each Application

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

Application Equipment

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

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SOYBEAN POSTEMERGENCE II

Trial ID: S5015

Protocol ID:

Location: LEXINGTON, KY

Study Director: CHARLES H. SLACK

Investigator: Charles H. Slack

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

Trt Treatment	Form	Rate	Growth										
No. Name	Conc	Rate	Unit	Stage	1	2	3	4	5	6	7	8	9
1 CHECK UNTREATED					0	0	0	0	0	0	0	0	0
2 KIH-485	60	0.056	LB A/A	MP	0	99	99	99	88	0	98	99	99
2 ROUNDUP WeatherMAX	5.5	0.78	LB A/A	MP									
2 AMS		3.7	% V/V	MP									
3 KIH-485	60	0.112	LB A/A	MP	0	99	99	99	91	0	98	96	99
3 ROUNDUP WeatherMAX	5.5	0.78	LB A/A	MP									
3 AMS		3.7	% V/V	MP									
4 KIH-485	60	0.112	LB A/A	PRE	0	99	99	99	92	0	96	98	99
4 ROUNDUP WeatherMAX	5.5	0.78	LB A/A	MP									
4 AMS		3.7	% V/V	MP									
5 ROUNDUP WeatherMAX	5.5	0.78	LB A/A	MP	0	99	99	99	95	0	90	90	96
5 AMS		3.7	% V/V	MP									
6 OUTLOOK	6	0.759	LB A/A	MP	0	99	99	99	96	0	98	98	99
6 ROUNDUP WeatherMAX	5.5	0.78	LB A/A	MP									
6 AMS		3.7	% V/V	MP									
LSD (P=.05)					0.0	0.0	0.0	0.0	3.7	0.0	3.7	6.0	1.7
Standard Deviation					0.0	0.0	0.0	0.0	2.0	0.0	2.0	3.3	0.9
CV					0.0	0.0	0.0	0.0	2.64	0.0	2.53	4.15	1.15
Grand Mean					0.0	82.5	82.5	82.5	77.0	0.0	79.89	80.06	82.06
Replicate F					0.000	0.000	0.000	0.000	1.452	0.000	0.217	0.668	1.000
Replicate Prob(F)					1.0000	1.0000	1.0000	1.0000	0.2796	1.0000	0.8083	0.5340	0.4019
Treatment F					0.000	0.000	0.000	0.000	1039.194	0.000	1130.337	420.126	5457.663
Treatment Prob(F)					1.0000	1.0000	1.0000	1.0000	0.0001	1.0000	0.0001	0.0001	0.0001

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SOYBEAN POSTEMERGENCE II

Trial ID: S5015
 Protocol ID: Study Director: CHARLES H. SLACK
 Location: LEXINGTON, KY Investigator: Charles H. Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	IPOSS	SETFA	AMBTR	ABUTH	IPOSS
Pest Name	Morning glory	Giant foxtail	Giant Ragweed	Velvetleaf	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 No. Name	Form Conc	Rate	Unit	Growth Stage	10	11	12	13	14	15
1 CHECK UNTREATED					0	0	0	0	0	0
2 KIH-485	60	0.056	LB A/A	MP	80	0	96	93	98	77
2 ROUNDUP WeatherMAX	5.5	0.78	LB A/A	MP						
2 AMS		3.7	% V/V	MP						
3 KIH-485	60	0.112	LB A/A	MP	85	0	98	83	96	82
3 ROUNDUP WeatherMAX	5.5	0.78	LB A/A	MP						
3 AMS		3.7	% V/V	MP						
4 KIH-485	60	0.112	LB A/A	PRE	82	0	96	86	99	75
4 ROUNDUP WeatherMAX	5.5	0.78	LB A/A	MP						
4 AMS		3.7	% V/V	MP						
5 ROUNDUP WeatherMAX	5.5	0.78	LB A/A	MP	80	0	79	82	96	72
5 AMS		3.7	% V/V	MP						
6 OUTLOOK	6	0.759	LB A/A	MP	87	0	95	95	99	79
6 ROUNDUP WeatherMAX	5.5	0.78	LB A/A	MP						
6 AMS		3.7	% V/V	MP						
LSD (P=.05)					7.2	0.0	8.3	6.4	4.0	9.3
Standard Deviation					3.9	0.0	4.6	3.5	2.2	5.1
CV					5.73	0.0	5.92	4.77	2.72	8.02
Grand Mean					68.89	0.0	77.33	73.22	81.33	64.06
Replicate F					2.500	0.000	1.656	1.382	2.687	0.924
Replicate Prob(F)					0.1317	1.0000	0.2392	0.2952	0.1164	0.4283
Treatment F					221.071	0.000	212.325	322.873	973.007	113.307
Treatment Prob(F)					0.0001	1.0000	0.0001	0.0001	0.0001	0.0001

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SOYBEAN POSTEMERGENCE II

Trial ID: S5015
Protocol ID: Study Director: CHARLES H. SLACK
Location: LEXINGTON, KY Investigator: Charles H. Slack

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

Description Name: MAURY
% Sand: 6 **% OM:** 2.7 **Texture:** SILT LOAM
% Silt: 64 **pH:** 6.5 **Soil Name:** MAURY
% Clay: 30 **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:	5-10-05	6-8-05
Time of Day:	10 AM	10 AM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	MP
Application Placement:	BROSOI	BROFOL
Applied By:	C. H. SLACK	C. H. SLACK
Air Temperature, Unit:	72 F	75 F
% Relative Humidity:	30	40
Wind Velocity, Unit:	4 MPH	4 MPH
Wind Direction:	SW	SW
Soil Temperature, Unit:	65 F	75 F
Soil Moisture:	ADEQUATE	INADEQUATE
% Cloud Cover:	50	20

SOYBEAN POSTEMERGENCE II

Trial ID: S5015
 Protocol ID:
 Location: LEXINGTON, KY

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

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:	3 TR	
Height, Unit:	6	IN

Pest Stage At Each Application

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

Application Equipment

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

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NO TILL SOYBEAN EARLY PREPLANT

Trial ID: S5018
Protocol ID: Study Director: CHARLES H. SLACK
Location: LEXINGTON, KY Investigator: Charles H. Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	SETFA	STEME	LAMAM	TAROF	AMBTR	SETFA				
Pest Name	Giant foxtail	Common chickweed	Henbit	Common dandelion	Giant Ragweed	Giant foxtail				
Crop Code						GLXMA				
BBCH Scale						BSOY				
Crop Name						Soybean				
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY				
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT				
Trt-Eval Interval	BEFORE POST	BEFORE POST	BEFORE POST	BEFORE POST	BEFORE POST	2 WEEK				
ARM Action Codes	P	P	P	P	P	P				
Number of Decimals	0	0	0	0	0	0				
Trt Treatment	Form	Rate	Growth	11	12	13	14	15	16	17
No. Name	Conc	Unit	Stage							
1 CHECK UNTREATED				0	0	0	0	0	0	0
2 GRAMOXONE INTEON	2	2.5 PT/A	1WK	99	99	99	76	88	0	99
2 ACTIVATOR 90		0.125 % V/V	1WK							
2 TOUCHDOWN TOTAL	4.17	24 FL OZ/A	LP							
2 AMS	100	8.5 LB A/100 GAL	LP							
3 GRAMOXONE INTEON	2	3 PT/A	1WK	99	99	99	80	62	0	99
3 ACTIVATOR 90		0.125 % V/V	1WK							
3 TOUCHDOWN TOTAL	4.17	24 FL OZ/A	LP							
3 AMS	100	8.5 LB A/100 GAL	LP							
4 GRAMOXONE INTEON	2	4 PT/A	1WK	99	99	99	84	88	0	99
4 ACTIVATOR 90		0.125 % V/V	1WK							
4 TOUCHDOWN TOTAL	4.17	24 FL OZ/A	LP							
4 AMS	100	8.5 LB A/100 GAL	LP							
5 GRAMOXONE INTEON	2	2.5 PT/A	1WK	99	99	99	85	91	0	99
5 WEEDONE LV4	3.8	1 PT/A	1WK							
5 ACTIVATOR 90		0.125 % V/V	1WK							
5 TOUCHDOWN TOTAL	4.17	24 FL OZ/A	LP							
5 AMS	100	8.5 LB A/100 GAL	LP							
6 GRAMOXONE INTEON	2	3 PT/A	1WK	99	99	99	89	94	0	99
6 WEEDONE LV4	3.8	1 PT/A	1WK							
6 ACTIVATOR 90		0.125 % V/V	1WK							
6 TOUCHDOWN TOTAL	4.17	24 FL OZ/A	LP							
6 AMS	100	8.5 LB A/100 GAL	LP							
7 GRAMOXONE INTEON	2	4 PT/A	1WK	99	99	99	86	88	0	99
7 WEEDONE LV4	3.8	1 PT/A	1WK							
7 ACTIVATOR 90		0.125 % V/V	1WK							
7 TOUCHDOWN TOTAL	4.17	24 FL OZ/A	LP							
7 AMS	100	8.5 LB A/100 GAL	LP							

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NO TILL SOYBEAN EARLY PREPLANT

Trial ID: S5018
Protocol ID: Study Director: CHARLES H. SLACK
Location: LEXINGTON, KY Investigator: Charles H. Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed					
Pest Code	SETFA	STEME	LAMAM	TAROF	AMBTR	SETFA					
Pest Name	Giant foxtail	Common chickweed	Henbit	Common dandelion	Giant Ragweed	Giant foxtail					
Crop Code						GLXMA					
BBCH Scale						BSOY					
Crop Name						Soybean					
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY					
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT					
Trt-Eval Interval	BEFORE POST	BEFORE POST	BEFORE POST	BEFORE POST	BEFORE POST	2 WEEK					
ARM Action Codes	P	P	P	P	P	P					
Number of Decimals	0	0	0	0	0	0					
Trt Treatment	Form	Rate	Growth	11	12	13	14	15	16	17	
No. Name	Conc	Rate	Stage								
8 GRAMOXONE INTEON	2	2.5	PT/A	1WK	99	99	99	81	84	0	99
8 A14972A	5.27	32	FL OZ/A	1WK							
8 ACTIVATOR 90		0.125	% V/V	1WK							
8 TOUCHDOWN TOTAL	4.17	24	FL OZ/A	LP							
8 AMS	100	8.5	LB A/100	GAL LP							
9 GRAMOXONE INTEON	2	3	PT/A	1WK	99	99	99	90	84	0	99
9 A14972A	5.27	32	FL OZ/A	1WK							
9 ACTIVATOR 90		0.125	% V/V	1WK							
9 TOUCHDOWN TOTAL	4.17	24	FL OZ/A	LP							
9 AMS	100	8.5	LB A/100	GAL LP							
10 GRAMOXONE INTEON	2	4	PT/A	1WK	99	99	99	90	85	0	99
10 A14972A	5.27	32	FL OZ/A	1WK							
10 ACTIVATOR 90		0.125	% V/V	1WK							
10 TOUCHDOWN TOTAL	4.17	24	FL OZ/A	LP							
10 AMS	100	8.5	LB A/100	GAL LP							
11 GRAMOXONE INTEON	2	2.5	PT/A	1WK	99	97	97	83	84	0	99
11 BOUNDARY	6.5	32	FL OZ/A	1WK							
11 ACTIVATOR 90		0.125	% V/V	1WK							
11 TOUCHDOWN TOTAL	4.17	24	FL OZ/A	LP							
11 AMS	100	8.5	LB A/100	GAL LP							
12 GRAMOXONE INTEON	2	3	PT/A	1WK	99	99	99	84	88	0	99
12 BOUNDARY	6.5	32	FL OZ/A	1WK							
12 ACTIVATOR 90		0.125	% V/V	1WK							
12 TOUCHDOWN TOTAL	4.17	24	FL OZ/A	LP							
12 AMS	100	8.5	LB A/100	GAL LP							
13 GRAMOXONE INTEON	2	4	PT/A	1WK	99	99	99	87	96	0	99
13 BOUNDARY	6.5	32	FL OZ/A	1WK							
13 ACTIVATOR 90		0.125	% V/V	1WK							
13 TOUCHDOWN TOTAL	4.17	24	FL OZ/A	LP							
13 AMS	100	8.5	LB A/100	GAL LP							

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NO TILL SOYBEAN EARLY PREPLANT

Trial ID: S5018
Protocol ID: Study Director: CHARLES H. SLACK
Location: LEXINGTON, KY Investigator: Charles H. Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed					
Pest Code	SETFA	STEME	LAMAM	TAROF	AMBTR	SETFA					
Pest Name	Giant foxtail	Common chickweed	Henbit	Common dandelion	Giant Ragweed	Giant foxtail					
Crop Code						GLXMA					
BBCH Scale						BSOY					
Crop Name						Soybean					
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY					
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT					
Trt-Eval Interval	BEFORE POST	BEFORE POST	BEFORE POST	BEFORE POST	BEFORE POST	2 WEEK					
ARM Action Codes	P	P	P	P	P	P					
Number of Decimals	0	0	0	0	0	0					
Trt Treatment	Form	Rate	Growth	11	12	13	14	15	16	17	
No. Name	Conc	Rate	Stage								
14 GRAMOXONE INTEON	2	3. PT/A	1WK	99		99	99	91	99	0	99
14 WEEDONE LV4	3.8	1 PT/A	1WK								
14 ACTIVATOR 90		0.125 % V/V	1WK								
14 SEQUENCE	5.25	2.5 PT/A	V3								
14 AMS	100	2.5 LB A/A	V3								
15 ROUNDUP WeatherMAX	5.5	22 FL OZ/A	1WK	99		99	99	71	81	0	99
15 AMS	100	17 LB A/100 GAL	1WK								
15 ROUNDUP WeatherMAX	5.5	22 FL OZ/A	LP								
15 AMS	100	17 LB A/100 GAL	LP								
16 ROUNDUP WeatherMAX	5.5	22 FL OZ/A	1WK	90		99	99	70	73	0	0
16 AMS	100	17 LB A/100 GAL	1WK								
16 CHECK UNTREATED											
LSD (P=.05)				0.0		1.6	1.6	11.9	14.4	0.0	0.0
Standard Deviation				0.0		1.1	1.1	8.3	10.1	0.0	0.0
CV				0.0		1.21	1.21	10.68	12.6	0.0	0.0
Grand Mean				92.25		92.67	92.67	77.86	80.17	0.0	86.63
Replicate F				0.000		1.000	1.000	0.941	1.417	0.000	0.000
Replicate Prob(F)				1.0000		0.4016	0.4016	0.4287	0.2501	1.0000	1.0000
Treatment F				0.000		1931.133	1931.133	27.209	20.939	0.000	0.000
Treatment Prob(F)				1.0000		0.0001	0.0001	0.0001	0.0001	1.0000	1.0000

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NO TILL SOYBEAN EARLY PREPLANT

Trial ID: S5018
 Protocol ID: Study Director: CHARLES H. SLACK
 Location: LEXINGTON, KY Investigator: Charles H. Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	IPOSS	SETFA	AMBTR	IPOSS	SETFA	SETFA
Pest Name	Giant Ragweed	Morning glory	Giant foxtail	Giant Ragweed	Morning glory	Giant foxtail	Giant foxtail
Crop Code			GLXMA			GLXMA	
BBCH Scale			BSOY			BSOY	
Crop Name			Soybean			Soybean	
Rating Data Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK
ARM Action Codes	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0
Trt Treatment	Form	Rate	Growth				
No. Name	Conc	Rate	Stage	18	19	20	21
		Unit		22	23	24	25
14 GRAMOXONE INTEON	2	3. PT/A	1WK	99	90	0	99
14 WEEDONE LV4	3.8	1 PT/A	1WK				99
14 ACTIVATOR 90		0.125 % V/V	1WK				90
14 SEQUENCE	5.25	2.5 PT/A	V3				0
14 AMS	100	2.5 LB A/A	V3				98
15 ROUNDUP WeatherMAX	5.5	22 FL OZ/A	1WK	99	96	0	99
15 AMS	100	17 LB A/100 GAL	1WK				99
15 ROUNDUP WeatherMAX	5.5	22 FL OZ/A	LP				96
15 AMS	100	17 LB A/100 GAL	LP				0
16 ROUNDUP WeatherMAX	5.5	22 FL OZ/A	1WK	0	0	0	25
16 AMS	100	17 LB A/100 GAL	1WK				25
16 CHECK UNTREATED							22
LSD (P=.05)				5.2	7.2	0.0	25.8
Standard Deviation				3.6	5.0	0.0	18.1
CV				4.29	6.15	0.0	20.87
Grand Mean				84.42	81.41	0.0	86.63
Replicate F				3.748	5.415	0.000	0.000
Replicate Prob(F)				0.0174	0.0029	1.0000	1.0000
Treatment F				333.487	161.641	0.000	11.000
Treatment Prob(F)				0.0001	0.0001	1.0000	0.0001

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NO TILL SOYBEAN EARLY PREPLANT

Trial ID: S5018
Protocol ID: Study Director: CHARLES H. SLACK
Location: LEXINGTON, KY Investigator: Charles H. Slack

Pest Type	W Weed	W Weed	
Pest Code	AMBTR	IPOSS	
Pest Name	Giant Ragweed Morning glory		
Crop Code			GLXMA
BBCH Scale			BSOY
Crop Name			Soybean
Rating Data Type	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	BU
Trt-Eval Interval	8 WEEK	8 WEEK	
ARM Action Codes	P	P	TY1
Number of Decimals	0	0	1

Trt No.	Treatment Name	Form	Rate	Unit	Growth Stage	26	27	31
1	CHECK UNTREATED					0	0	36.1
2	GRAMOXONE INTEON	2	2.5	PT/A	1WK	95	89	38.8
2	ACTIVATOR 90		0.125	% V/V	1WK			
2	TOUCHDOWN TOTAL	4.17	24	FL OZ/A	LP			
2	AMS	100	8.5	LB A/100	GAL LP			
3	GRAMOXONE INTEON	2	3	PT/A	1WK	91	92	39.4
3	ACTIVATOR 90		0.125	% V/V	1WK			
3	TOUCHDOWN TOTAL	4.17	24	FL OZ/A	LP			
3	AMS	100	8.5	LB A/100	GAL LP			
4	GRAMOXONE INTEON	2	4	PT/A	1WK	96	93	41.1
4	ACTIVATOR 90		0.125	% V/V	1WK			
4	TOUCHDOWN TOTAL	4.17	24	FL OZ/A	LP			
4	AMS	100	8.5	LB A/100	GAL LP			
5	GRAMOXONE INTEON	2	2.5	PT/A	1WK	90	93	41.1
5	WEEDONE LV4	3.8	1	PT/A	1WK			
5	ACTIVATOR 90		0.125	% V/V	1WK			
5	TOUCHDOWN TOTAL	4.17	24	FL OZ/A	LP			
5	AMS	100	8.5	LB A/100	GAL LP			
6	GRAMOXONE INTEON	2	3	PT/A	1WK	93	93	40.3
6	WEEDONE LV4	3.8	1	PT/A	1WK			
6	ACTIVATOR 90		0.125	% V/V	1WK			
6	TOUCHDOWN TOTAL	4.17	24	FL OZ/A	LP			
6	AMS	100	8.5	LB A/100	GAL LP			
7	GRAMOXONE INTEON	2	4	PT/A	1WK	92	91	41.7
7	WEEDONE LV4	3.8	1	PT/A	1WK			
7	ACTIVATOR 90		0.125	% V/V	1WK			
7	TOUCHDOWN TOTAL	4.17	24	FL OZ/A	LP			
7	AMS	100	8.5	LB A/100	GAL LP			

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NO TILL SOYBEAN EARLY PREPLANT

Trial ID: S5018
 Protocol ID: Study Director: CHARLES H. SLACK
 Location: LEXINGTON, KY Investigator: Charles H. Slack

Pest Type W Weed W Weed
 Pest Code AMBTR IPOSS
 Pest Name Giant Ragweed Morning glory
 Crop Code GLXMA
 BBCH Scale BSOY
 Crop Name Soybean
 Rating Data Type CONTROL CONTROL YIELD
 Rating Unit PERCENT PERCENT BU
 Trt-Eval Interval 8 WEEK 8 WEEK
 ARM Action Codes P P TY1
 Number of Decimals 0 0 1

Trt Treatment No. Name	Form Conc	Rate Rate	Unit Unit	Growth Stage	26	27	31
8 GRAMOXONE INTEON	2	2.5	PT/A	1WK	94	92	40.3
8 A14972A	5.27	32	FL OZ/A	1WK			
8 ACTIVATOR 90		0.125	% V/V	1WK			
8 TOUCHDOWN TOTAL	4.17	24	FL OZ/A	LP			
8 AMS	100	8.5	LB A/100	GAL LP			
9 GRAMOXONE INTEON	2	3	PT/A	1WK	92	97	42.3
9 A14972A	5.27	32	FL OZ/A	1WK			
9 ACTIVATOR 90		0.125	% V/V	1WK			
9 TOUCHDOWN TOTAL	4.17	24	FL OZ/A	LP			
9 AMS	100	8.5	LB A/100	GAL LP			
10 GRAMOXONE INTEON	2	4	PT/A	1WK	95	93	39.4
10 A14972A	5.27	32	FL OZ/A	1WK			
10 ACTIVATOR 90		0.125	% V/V	1WK			
10 TOUCHDOWN TOTAL	4.17	24	FL OZ/A	LP			
10 AMS	100	8.5	LB A/100	GAL LP			
11 GRAMOXONE INTEON	2	2.5	PT/A	1WK	88	91	35.7
11 BOUNDARY	6.5	32	FL OZ/A	1WK			
11 ACTIVATOR 90		0.125	% V/V	1WK			
11 TOUCHDOWN TOTAL	4.17	24	FL OZ/A	LP			
11 AMS	100	8.5	LB A/100	GAL LP			
12 GRAMOXONE INTEON	2	3	PT/A	1WK	91	92	37.4
12 BOUNDARY	6.5	32	FL OZ/A	1WK			
12 ACTIVATOR 90		0.125	% V/V	1WK			
12 TOUCHDOWN TOTAL	4.17	24	FL OZ/A	LP			
12 AMS	100	8.5	LB A/100	GAL LP			
13 GRAMOXONE INTEON	2	4	PT/A	1WK	69	72	35.9
13 BOUNDARY	6.5	32	FL OZ/A	1WK			
13 ACTIVATOR 90		0.125	% V/V	1WK			
13 TOUCHDOWN TOTAL	4.17	24	FL OZ/A	LP			
13 AMS	100	8.5	LB A/100	GAL LP			

Dept. of Agronomy, Univ. of Ky
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NO TILL SOYBEAN EARLY PREPLANT

Trial ID: S5018
 Protocol ID: Study Director: CHARLES H. SLACK
 Location: LEXINGTON, KY Investigator: Charles H. Slack

Pest Type	W Weed	W Weed	
Pest Code	AMBTR	IPOSS	
Pest Name	Giant Ragweed Morning glory		
Crop Code			GLXMA
BBCH Scale			BSOY
Crop Name			Soybean
Rating Data Type	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	BU
Trt-Eval Interval	8 WEEK	8 WEEK	
ARM Action Codes	P	P	TY1
Number of Decimals	0	0	1

Trt Treatment No. Name	Form Conc	Rate Rate	Unit Unit	Growth Stage	26	27	31
14 GRAMOXONE INTEON	2	3.	PT/A	1WK	95	90	40.5
14 WEEDONE LV4	3.8	1	PT/A	1WK			
14 ACTIVATOR 90		0.125	% V/V	1WK			
14 SEQUENCE	5.25	2.5	PT/A	V3			
14 AMS	100	2.5	LB A/A	V3			
15 ROUNDUP WeatherMAX	5.5	22	FL OZ/A	1WK	97	95	39.8
15 AMS	100	17	LB A/100	GAL 1WK			
15 ROUNDUP WeatherMAX	5.5	22	FL OZ/A	LP			
15 AMS	100	17	LB A/100	GAL LP			
16 ROUNDUP WeatherMAX	5.5	22	FL OZ/A	1WK	25	22	26.4
16 AMS	100	17	LB A/100	GAL 1WK			
16 CHECK UNTREATED							
LSD (P=.05)					25.9	25.0	7.34
Standard Deviation					18.1	17.5	5.14
CV					22.29	21.64	13.34
Grand Mean					81.28	80.94	38.51
Replicate F					0.148	0.416	39.432
Replicate Prob(F)					0.9302	0.7426	0.0001
Treatment F					9.551	10.328	2.208
Treatment Prob(F)					0.0001	0.0001	0.0207

Column 18: TY1 = 14.82004*[29]*(100-[20])/96

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

NO TILL SOYBEAN EARLY PREPLANT

Trial ID: S5018
Protocol ID:
Location: LEXINGTON, KY

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

Application Description

	A	B	C
Application Date:	5-2-05	6-7-05	6-7-05
Time of Day:	2 PM	4:30 PM	4:30 PM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	1 WK	V3	LP
Application Placement:	BROFOL	BROFOL	BROFOL
Applied By:	C H SLACK	C. H. SLACK	C. H. SLACK
Air Temperature, Unit:	51 F	86 F	86 F
% Relative Humidity:	41	55	55
Wind Velocity, Unit:	8 MPH	4 MPH	4 MPH
Wind Direction:	WNW	SW	SW
Soil Temperature, Unit:	56 F	75 F	75 F
Soil Moisture:	DRY	INADEQUATE	INADEQUATE
% Cloud Cover:	50	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		3 TR		3 TR	
Height, Unit:			6	IN	6	IN

Pest Stage At Each Application

	A		B		C	
Pest 1 Code, Disc., Scale:	SETFA	W	SETFA	W	SETFA	W
Stage Majority, Percent:	1 LF		2LF		2lf	
Height, Unit:	2	IN	4	IN	4	IN
Pest 2 Code, Disc., Scale:	STEME	W	STEME	W	STEME	W
Height, Unit:	6	IN				
Pest 3 Code, Disc., Scale:	LAMAM	W	LAMAM	W	LAMAM	W
Height, Unit:	6	IN				
Pest 4 Code, Disc., Scale:	TAROF	W	TAROF	W	TAROF	W
Height, Unit:	6	IN				
Pest 5 Code, Disc., Scale:	AMBTR	W	AMBTR	W	AMBTR	W
Stage Majority, Percent:			8 LF		8LF	
Height, Unit:	4	IN	7	IN	7	IN
Pest 6 Code, Disc., Scale:	IPOSS	W	IPOSS	W	IPOSS	W
Stage Majority, Percent:			2 LF		2 LF	
Height, Unit:			2	IN	2	IN

Dept. of Agronomy, Univ. of Ky
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NO TILL SOYBEAN EARLY PREPLANT

Trial ID: S5018

Protocol ID:

Location: LEXINGTON, KY

Study Director: CHARLES H. SLACK

Investigator: Charles H. Slack

Application Equipment

	A	B	C
Appl. Equipment:	4 WHEELER	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:	20 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

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

NO TILL SOYBEAN EARLY PREPLANT II

Trial ID: S5019
Protocol ID: Study Director: CHARLES H. SLACK
Location: LEXINGTON, KY Investigator: Charles H. Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	STEME	LAMAM	TAROF	AMBTR	SETFA	STEME
Pest Name	Giant foxtail	Common chickweed	Henbit	Common dandelion	Giant Ragweed	Giant foxtail	Common chickweed
Crop Code						GLXMA	
BBCH Scale						BSOY	
Crop Name						Soybean	
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	1 WEEK	1 WEEK	1 WEEK	1 WEEK	1 WEEK	2 WEEK	2 WEEK
ARM Action Codes	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0

Trt Treatment	Form	Rate	Growth	1	2	3	4	5	6	7	8
No. Name	Conc	Rate	Unit	Stage							
6 GRAMOXONE INTEON	2	3	PT/A	1WK	90	90	88	88	0	99	99
6 BOUNDARY	6.5	1.5	PT/A	1WK							
6 ACTIVATOR 90		0.25	% V/V	1WK							
6 TOUCHDOWN TOTAL	4.17	24	FL OZ/A	MP							
6 AMS		3.7	% V/V	MP							
7 TOUCHDOWN TOTAL	4.17	24	FL OZ/A	1WK	84	84	78	74	0	99	99
7 AMS		3.7	% V/V	1WK							
7 TOUCHDOWN TOTAL	4.17	24	FL OZ/A	MP							
7 AMS		3.7	% V/V	MP							
8 SEQUENCE	5.25	2.5	PT/A	1WK	80	80	76	71	0	99	99
8 AMS		3.7	% V/V	1WK							
8 LIQUID N		2	% V/V	1WK							
8 FLEXSTAR	1.88	1.5	PT/A	MP							
8 FUSION	2.66	12	FL OZ/A	MP							
8 MSO		1	% V/V	MP							
8 LIQUID N		2	% V/V	MP							
LSD (P=.05)		7.9			22.5	7.6	7.3	5.1	2.6	0.0	0.0
Standard Deviation		5.4			15.3	5.2	5.0	3.5	1.8	0.0	0.0
CV		6.2			18.32	6.01	6.18	4.36	80.81	0.0	0.0
Grand Mean		86.34			83.44	85.94	80.56	79.31	2.19	99.0	99.0
Replicate F		0.315			0.717	0.665	2.573	0.741	1.000	0.000	0.000
Replicate Prob(F)		0.8144			0.5527	0.5830	0.0813	0.5392	0.4123	1.0000	1.0000
Treatment F		2.351			1.747	2.732	3.630	15.644	49.000	0.000	0.000
Treatment Prob(F)		0.0611			0.1520	0.0350	0.0101	0.0001	0.0001	1.0000	1.0000

Dept. of Agronomy, Univ. of Ky
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NO TILL SOYBEAN EARLY PREPLANT II

Trial ID: S5019
Protocol ID: Study Director: CHARLES H. SLACK
Location: LEXINGTON, KY Investigator: Charles H. Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	LAMAM	TAROF	AMBTR	SETFA	AMBTR	SETFA	SETFA				
Pest Name	Henbit	Common dandelion	Giant Ragweed	Giant foxtail	Giant Ragweed	Giant foxtail	Giant foxtail				
Crop Code				GLXMA		GLXMA					
BBCH Scale				BSOY		BSOY					
Crop Name				Soybean		Soybean					
Rating Data Type	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	INJURY				
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT				
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK				
ARM Action Codes	P	P	P	P	P	P	P				
Number of Decimals	0	0	0	0	0	0	0				
Trt Treatment	Form	Rate	Growth	9	10	11	12	13	14	15	16
No. Name	Conc	Unit	Stage								
6 GRAMOXONE INTEON	2	3 PT/A	1WK	99		99	0	99	99	0	99
6 BOUNDARY	6.5	1.5 PT/A	1WK								
6 ACTIVATOR 90		0.25 % V/V	1WK								
6 TOUCHDOWN TOTAL	4.17	24 FL OZ/A	MP								
6 AMS		3.7 % V/V	MP								
7 TOUCHDOWN TOTAL	4.17	24 FL OZ/A	1WK	99		99	0	99	99	0	99
7 AMS		3.7 % V/V	1WK								
7 TOUCHDOWN TOTAL	4.17	24 FL OZ/A	MP								
7 AMS		3.7 % V/V	MP								
8 SEQUENCE	5.25	2.5 PT/A	1WK	99		99	0	99	99	0	99
8 AMS		3.7 % V/V	1WK								
8 LIQUID N		2 % V/V	1WK								
8 FLEXSTAR	1.88	1.5 PT/A	MP								
8 FUSION	2.66	12 FL OZ/A	MP								
8 MSO		1 % V/V	MP								
8 LIQUID N		2 % V/V	MP								
LSD (P=.05)				0.0	0.0	0.0	0.0	2.6	0.5	0.0	1.5
Standard Deviation				0.0	0.0	0.0	0.0	1.8	0.4	0.0	1.0
CV				0.0	0.0	0.0	0.0	1.81	0.37	0.0	1.04
Grand Mean				99.0	99.0	99.0	1.25	97.56	96.56	0.0	98.19
Replicate F				0.000	0.000	0.000	0.000	1.000	1.000	0.000	1.000
Replicate Prob(F)				1.0000	1.0000	1.0000	1.0000	0.4123	0.4123	1.0000	0.4123
Treatment F				0.000	0.000	0.000	0.000	21.160	1521.000	0.000	20.280
Treatment Prob(F)				1.0000	1.0000	1.0000	1.0000	0.0001	0.0001	1.0000	0.0001

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NO TILL SOYBEAN EARLY PREPLANT II

Trial ID: S5019
 Protocol ID: Study Director: CHARLES H. SLACK
 Location: LEXINGTON, KY Investigator: Charles H. Slack

Pest Type W Weed
 Pest Code AMBTR
 Pest Name Giant Ragweed
 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 No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	
					17	
1	COMMAND	3	1	QT/A	1WK	68
1	SPARTAN	4	12	FL OZ/A	1WK	
1	AIM	2	0.5	FL OZ/A	1WK	
1	ROUNDUP ORIGINAL	4	24	FL OZ/A	1WK	
1	BARRAGE HF	4.7	10	FL OZ/A	1WK	
1	AMS		3.7	% V/V	1WK	
2	COMMAND	3	1	QT/A	1WK	99
2	SPARTAN	4	12	FL OZ/A	1WK	
2	AIM	2	0.5	FL OZ/A	1WK	
2	ROUNDUP ORIGINAL	4	24	FL OZ/A	1WK	
2	BARRAGE HF	4.7	10	FL OZ/A	1WK	
2	AMS		3.7	% V/V	1WK	
2	ROUNDUP ORIGINAL	4	32	FL OZ/A	MP	
2	AMS		3.7	% V/V	MP	
3	CANOPY EX	29.5	1.9	OZ/A	1WK	99
3	WEEDONE LV4	3.8	1	PT/A	1WK	
3	ROUNDUP WeatherMAX	5.5	22	FL OZ/A	MP	
3	AMS		3.7	% V/V	MP	
4	CANOPY XL	56.3	4.5	OZ/A	1WK	99
4	WEEDONE LV4	3.8	1	PT/A	1WK	
4	ROUNDUP WeatherMAX	5.5	22	FL OZ/A	MP	
4	AMS		3.7	% V/V	MP	
5	GRAMOXONE INTEON	2	3	PT/A	1WK	97
5	BOUNDARY	6.5	1.5	PT/A	1WK	
5	ACTIVATOR 90		0.25	% V/V	1WK	
5	FLEXSTAR	1.88	1.5	PT/A	MP	
5	FUSION	2.66	12	FL OZ/A	MP	
5	M50		1	% V/V	MP	
5	LIQUID N		2	% V/V	MP	

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NO TILL SOYBEAN EARLY PREPLANT II

Trial ID: S5019
 Protocol ID: Study Director: CHARLES H. SLACK
 Location: LEXINGTON, KY Investigator: Charles H. Slack

Pest Type W Weed
 Pest Code AMBTR
 Pest Name Giant Ragweed
 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 No. Name	Form Conc	Rate Rate	Unit Unit	Growth Stage	
					17
6 GRAMOXONE INTEON	2	3	PT/A	1WK	99
6 BOUNDARY	6.5	1.5	PT/A	1WK	
6 ACTIVATOR 90		0.25	% V/V	1WK	
6 TOUCHDOWN TOTAL	4.17	24	FL OZ/A	MP	
6 AMS		3.7	% V/V	MP	
7 TOUCHDOWN TOTAL	4.17	24	FL OZ/A	1WK	99
7 AMS		3.7	% V/V	1WK	
7 TOUCHDOWN TOTAL	4.17	24	FL OZ/A	MP	
7 AMS		3.7	% V/V	MP	
8 SEQUENCE	5.25	2.5	PT/A	1WK	99
8 AMS		3.7	% V/V	1WK	
8 LIQUID N		2	% V/V	1WK	
8 FLEXSTAR	1.88	1.5	PT/A	MP	
8 FUSION	2.66	12	FL OZ/A	MP	
8 MSO		1	% V/V	MP	
8 LIQUID N		2	% V/V	MP	
LSD (P=.05)					3.6
Standard Deviation					2.4
CV					2.57
Grand Mean					94.78
Replicate F					0.638
Replicate Prob(F)					0.5988
Treatment F					82.465
Treatment Prob(F)					0.0001

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NO TILL SOYBEAN EARLY PREPLANT II

Trial ID: S5019
Protocol ID:
Location: LEXINGTON. KY

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

Application Description

	A	B
Application Date:	5-2-05	6-20-05
Time of Day:	2 PM	11:30 AM
Application Method:	SPRAY	SPRAY
Application Timing:	1 WK	MP
Application Placement:	BROFOL	BROFOL
Applied By:	C. H. SLACK	C. H. SLACK
Air Temperature, Unit:	51 F	78 F
% Relative Humidity:	41	20
Wind Velocity, Unit:	8 MPH	2 MPH
Wind Direction:	WNW	SW
Soil Temperature, Unit:	56 F	80 F
Soil Moisture:	DRY	ADEQUATE
% Cloud Cover:	50	10

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:	6 TR	
Height, Unit:	10	IN

Pest Stage At Each Application

	A	B
Pest 1 Code, Disc., Scale:	SETFA W	SETFA W
Stage Majority, Percent:	1 LF	3 LF
Pest 2 Code, Disc., Scale:	STEME W	STEME W
Height, Unit:	6	IN
Pest 3 Code, Disc., Scale:	LAMAM W	LAMAM W
Height, Unit:	6	IN
Pest 4 Code, Disc., Scale:	TAROF W	TAROF W
Height, Unit:	4	IN
Pest 5 Code, Disc., Scale:	AMBTR W	AMBTR W
Height, Unit:	4	IN 18 IN

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NO TILL SOYBEAN EARLY PREPLANT II

Trial ID: S5019

Protocol ID:

Location: LEXINGTON. KY

Study Director: CHARLES H. SLACK

Investigator: Charles H. Slack

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:	20 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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NO TILL SOYBEAN

Trial ID: S5020

Protocol ID:

Study Director: CHARLES H. SLACK

Location: LEXINGTON, KY

Investigator: Charles H. Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	SETFA	CHEAL	XANST	IPOSS	ABUTH	SETFA				
Pest Name	Giant foxtail	Lambsquarters,	common	Common cocklebur	Morning glory	Velvetleaf				
Crop Code						GLXMA				
BBCH Scale						BSOY				
Crop Name						Soybean				
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY				
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT				
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK				
ARM Action Codes	P	P	P	P	P	P				
Number of Decimals	0	0	0	0	0	0				
Trt Treatment	Form	Rate	Growth	9	10	11	12	13	14	15
No. Name	Conc	Rate	Stage							
1 CHECK UNTREATED				0	0	0	0	0	0	0
2 GRAMOXONE INTEON	2	3 PT/A	PRE	99	96	99	92	96	0	99
2 ACTIVATOR 90		0.125 % V/V	PRE							
2 SEQUENCE	5.25	2.5 PT/A	3TR							
2 AMS	100	1 % W/V	3TR							
3 GRAMOXONE INTEON	2	3 PT/A	PRE	99	99	99	87	95	0	99
3 ACTIVATOR 90		0.125 % V/V	PRE							
3 SEQUENCE	5.25	3 PT/A	3TR							
3 AMS	100	1 % W/V	3TR							
4 GRAMOXONE INTEON	2	3 PT/A	PRE	99	99	99	92	96	0	99
4 ACTIVATOR 90		0.125 % V/V	PRE							
4 SEQUENCE	5.25	3.5 PT/A	3TR							
4 AMS	100	1 % W/V	3TR							
5 GRAMOXONE INTEON	2	3 PT/A	PRE	99	99	99	93	96	0	99
5 ACTIVATOR 90		0.125 % V/V	PRE							
5 SEQUENCE	5.25	4 PT/A	3TR							
5 AMS	100	1 % W/V	3TR							
6 GRAMOXONE INTEON	2	3 PT/A	PRE	99	96	99	91	95	0	99
6 ACTIVATOR 90		0.125 % V/V	PRE							
6 TOUCHDOWN TOTAL	4.17	24 FL OZ/A	3TR							
6 AMS	100	1 % W/V	3TR							
7 GRAMOXONE INTEON	2	3 PT/A	PRE	99	98	98	95	98	0	99
7 ACTIVATOR 90		0.125 % V/V	PRE							
7 TOUCHDOWN TOTAL	4.17	24 FL OZ/A	3TR							
7 AMS	100	1 % W/V	3TR							
7 TOUCHDOWN TOTAL	4.17	24 FL OZ/A	6TR							
7 AMS	100	1 % W/V	6TR							

Dept. of Agronomy, Univ. of Ky
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NO TILL SOYBEAN

Trial ID: S5020

Protocol ID:
Location: LEXINGTON, KY

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

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	CHEAL	XANST	IPOSS	ABUTH	SETFA
Pest Name	Giant foxtail	Lambsquarters,	common	Common cocklebur	Morning glory	Velvetleaf
Crop Code						GLXMA
BBCH Scale						BSOY
Crop Name						Soybean
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0

Trt Treatment	Form	Rate	Growth	9	10	11	12	13	14	15	
No. Name	Conc	Rate	Unit	Stage							
8 SEQUENCE	5.25	2.5	PT/A	PRE	99	93	98	89	95	0	99
8 AMS	100	1	% W/V	PRE							
8 TOUCHDOWN TOTAL	4.17	24	FL OZ/A	6TR							
8 AMS	100	1	% W/V	6TR							
9 SEQUENCE	5.25	3	PT/A	PRE	98	95	98	88	93	0	98
9 AMS	100	1	% W/V	PRE							
9 TOUCHDOWN TOTAL	4.17	24	FL OZ/A	6TR							
9 AMS	100	1	% W/V	6TR							
10 SEQUENCE	5.25	3.5	PT/A	PRE	99	95	98	89	95	0	99
10 AMS	100	1	% W/V	PRE							
10 TOUCHDOWN TOTAL	4.17	24	FL OZ/A	6TR							
10 AMS	100	1	% W/V	6TR							
11 SEQUENCE	5.25	4	PT/A	PRE	99	95	99	87	91	0	99
11 AMS	100	1	% W/V	PRE							
11 TOUCHDOWN TOTAL	4.17	24	FL OZ/A	6TR							
11 AMS	100	1	% W/V	6TR							
12 GRAMOXONE INTEON	2	3	PT/A	PRE	99	98	98	86	93	0	99
12 ACTIVATOR 90		0.125	% V/V	PRE							
12 TOUCHDOWN TOTAL	4.17	24	FL OZ/A	6TR							
12 AMS	100	1	% W/V	6TR							
13 GRAMOXONE INTEON	2	3	PT/A	PRE	99	95	88	78	85	0	99
13 BOUNDARY	6.5	1.5	PT/A	PRE							
13 ACTIVATOR 90		0.125	% V/V	PRE							
14 GRAMOXONE INTEON	2	3	PT/A	PRE	99	98	95	86	93	0	99
14 BOUNDARY	6.5	1.5	PT/A	PRE							
14 ACTIVATOR 90		0.125	% V/V	PRE							
14 TOUCHDOWN TOTAL	4.17	24	FL OZ/A	6TR							
14 AMS	100	1	% W/V	6TR							

Dept. of Agronomy, Univ. of Ky
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NO TILL SOYBEAN

Trial ID: S5020

Protocol ID:
Location: LEXINGTON, KY

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

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	SETFA	CHEAL	XANST	IPOSS	ABUTH	SETFA				
Pest Name	Giant foxtail	Lambsquarters,	common	Common cocklebur	Morning glory	Velvetleaf	Giant foxtail			
Crop Code						GLXMA				
BBCH Scale						BSOY				
Crop Name						Soybean				
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL			
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT			
Trt-Eval Interval	2 WEEK	2 WEEK	2 WEEK	2 WEEK	2 WEEK	4 WEEK	4 WEEK			
ARM Action Codes	P	P	P	P	P	P	P			
Number of Decimals	0	0	0	0	0	0	0			
Trt Treatment	Form	Rate	Growth	9	10	11	12	13	14	15
No. Name	Conc	Rate	Stage							
15 A14972A	5.27	2 PT/A	PRE	92	73	84	72	72	0	91
15 GRAMOXONE INTEON	2	3 PT/A	PRE							
15 ACTIVATOR 90		0.125 % V/V	PRE							
16 A14972A	5.27	2 PT/A	PRE	96	95	95	88	95	0	96
16 GRAMOXONE INTEON	2	3 PT/A	PRE							
16 ACTIVATOR 90		0.125 % V/V	PRE							
16 TOUCHDOWN TOTAL	4.17	24 FL OZ/A	6TR							
16 AMS	100	1 % W/V	6TR							
17 SEQUENCE	5.25	2.5 PT/A	PRE	99	78	98	87	93	5	99
17 AMS	100	1 % W/V	PRE							
17 FLEXSTAR	1.88	24 FL OZ/A	6TR							
17 FUSION	2.66	10 FL OZ/A	6TR							
17 MSO		1 % V/V	6TR							
17 LIQUID N		2 % V/V	6TR							
18 GRAMOXONE INTEON	2	3 PT/A	PRE	0	0	0	0	0	0	0
18 ACTIVATOR 90		0.125 % V/V	PRE							
19 TOUCHDOWN TOTAL	4.17	24 FL OZ/A	6TR	99	90	93	88	90	0	99
19 DUAL II MAGNUM	7.64	1 LB A/A	6TR							
19 AMS	100	1 % W/V	6TR							
20 CHECK UNTREATED				0	0	0	0	0	0	0
LSD (P=.05)				3.0	3.2	6.0	9.5	5.5	0.0	3.4
Standard Deviation				1.8	1.9	3.6	5.8	3.3	0.0	2.1
CV				2.15	2.45	4.45	7.75	4.23	0.0	2.45
Grand Mean				83.6	79.62	81.78	74.4	78.53	0.25	83.52
Replicate F				1.591	0.321	3.869	0.221	2.071	0.000	1.622
Replicate Prob(F)				0.2171	0.7277	0.0296	0.8025	0.1401	1.0000	0.2109
Treatment F				1205.284	964.653	284.392	95.229	319.827	0.000	927.560
Treatment Prob(F)				0.0001	0.0001	0.0001	0.0001	0.0001	1.0000	0.0001

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

NO TILL SOYBEAN

Trial ID: S5020

Protocol ID:

Study Director: CHARLES H. SLACK

Location: LEXINGTON, KY

Investigator: Charles H. Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	XANST	IPOSS	ABUTH	GLXMA	SETFA	CHEAL
Pest Name	Lambsquarters, common	Common cocklebur	Morning glory	Velvetleaf	BSOY	Giant foxtail	Lambsquarters, common
Crop Code					Soybean		
BBCH Scale							
Crop Name							
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form	Rate	Unit	Growth Stage	16	17	18	19	20	21	22
1	CHECK UNTREATED					0	0	0	0	0	0	0
2	GRAMOXONE INTEON	2	3	PT/A	PRE	90	96	87	93	0	99	85
2	ACTIVATOR 90		0.125	% V/V	PRE							
2	SEQUENCE	5.25	2.5	PT/A	3TR							
2	AMS	100	1	% W/V	3TR							
3	GRAMOXONE INTEON	2	3	PT/A	PRE	98	98	82	92	0	99	96
3	ACTIVATOR 90		0.125	% V/V	PRE							
3	SEQUENCE	5.25	3	PT/A	3TR							
3	AMS	100	1	% W/V	3TR							
4	GRAMOXONE INTEON	2	3	PT/A	PRE	99	99	89	96	0	99	99
4	ACTIVATOR 90		0.125	% V/V	PRE							
4	SEQUENCE	5.25	3.5	PT/A	3TR							
4	AMS	100	1	% W/V	3TR							
5	GRAMOXONE INTEON	2	3	PT/A	PRE	95	98	89	96	0	99	95
5	ACTIVATOR 90		0.125	% V/V	PRE							
5	SEQUENCE	5.25	4	PT/A	3TR							
5	AMS	100	1	% W/V	3TR							
6	GRAMOXONE INTEON	2	3	PT/A	PRE	96	98	86	95	0	99	96
6	ACTIVATOR 90		0.125	% V/V	PRE							
6	TOUCHDOWN TOTAL	4.17	24	FL OZ/A	3TR							
6	AMS	100	1	% W/V	3TR							
7	GRAMOXONE INTEON	2	3	PT/A	PRE	98	98	91	98	0	99	96
7	ACTIVATOR 90		0.125	% V/V	PRE							
7	TOUCHDOWN TOTAL	4.17	24	FL OZ/A	3TR							
7	AMS	100	1	% W/V	3TR							
7	TOUCHDOWN TOTAL	4.17	24	FL OZ/A	6TR							
7	AMS	100	1	% W/V	6TR							

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

NO TILL SOYBEAN

Trial ID: S5020

Protocol ID:

Study Director: CHARLES H. SLACK

Location: LEXINGTON, KY

Investigator: Charles H. Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	XANST	IPOSS	ABUTH	GLXMA	SETFA	CHEAL
Pest Name	Lambsquarters, common	Common cocklebur	Morning glory	Velvetleaf	GLXMA	Giant foxtail	Lambsquarters, common
Crop Code					BSOY		
BBCH Scale					Soybean		
Crop Name							
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0

Trt Treatment	Form	Rate	Growth								
No. Name	Conc	Rate	Unit	Stage	16	17	18	19	20	21	22
8 SEQUENCE	5.25	2.5	PT/A	PRE	90	98	83	95	0	99	90
8 AMS	100	1	% W/V	PRE							
8 TOUCHDOWN TOTAL	4.17	24	FL OZ/A	6TR							
8 AMS	100	1	% W/V	6TR							
9 SEQUENCE	5.25	3	PT/A	PRE	95	98	88	93	0	98	95
9 AMS	100	1	% W/V	PRE							
9 TOUCHDOWN TOTAL	4.17	24	FL OZ/A	6TR							
9 AMS	100	1	% W/V	6TR							
10 SEQUENCE	5.25	3.5	PT/A	PRE	95	98	83	95	0	99	95
10 AMS	100	1	% W/V	PRE							
10 TOUCHDOWN TOTAL	4.17	24	FL OZ/A	6TR							
10 AMS	100	1	% W/V	6TR							
11 SEQUENCE	5.25	4	PT/A	PRE	93	99	82	91	0	99	93
11 AMS	100	1	% W/V	PRE							
11 TOUCHDOWN TOTAL	4.17	24	FL OZ/A	6TR							
11 AMS	100	1	% W/V	6TR							
12 GRAMOXONE INTEON	2	3	PT/A	PRE	98	98	80	93	0	99	98
12 ACTIVATOR 90		0.125	% V/V	PRE							
12 TOUCHDOWN TOTAL	4.17	24	FL OZ/A	6TR							
12 AMS	100	1	% W/V	6TR							
13 GRAMOXONE INTEON	2	3	PT/A	PRE	95	83	77	83	0	96	92
13 BOUNDARY	6.5	1.5	PT/A	PRE							
13 ACTIVATOR 90		0.125	% V/V	PRE							
14 GRAMOXONE INTEON	2	3	PT/A	PRE	96	95	82	93	0	99	96
14 BOUNDARY	6.5	1.5	PT/A	PRE							
14 ACTIVATOR 90		0.125	% V/V	PRE							
14 TOUCHDOWN TOTAL	4.17	24	FL OZ/A	6TR							
14 AMS	100	1	% W/V	6TR							

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

NO TILL SOYBEAN

Trial ID: S5020

Protocol ID:

Location: LEXINGTON, KY

Study Director: CHARLES H. SLACK

Investigator: Charles H. Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	XANST	IPOSS	ABUTH	GLXMA	SETFA	CHEAL
Pest Name	Lambsquarters, common	Common cocklebur	Morning glory	Velvetleaf	BSOY	Giant foxtail	Lambsquarters, common
Crop Code					Soybean		
BBCH Scale							
Crop Name							
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	4 WEEK	4 WEEK	4 WEEK	4 WEEK	8 WEEK	8 WEEK	8 WEEK
ARM Action Codes	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0

Trt Treatment No. Name	Form Conc	Rate Rate	Unit Unit	Growth Stage	16	17	18	19	20	21	22
15 A14972A	5.27	2	PT/A	PRE	67	79	65	72	0	86	57
15 GRAMOXONE INTEON	2	3	PT/A	PRE							
15 ACTIVATOR 90		0.125	% V/V	PRE							
16 A14972A	5.27	2	PT/A	PRE	95	95	84	95	0	96	95
16 GRAMOXONE INTEON	2	3	PT/A	PRE							
16 ACTIVATOR 90		0.125	% V/V	PRE							
16 TOUCHDOWN TOTAL	4.17	24	FL OZ/A	6TR							
16 AMS	100	1	% W/V	6TR							
17 SEQUENCE	5.25	2.5	PT/A	PRE	70	98	80	93	3	99	60
17 AMS	100	1	% W/V	PRE							
17 FLEXSTAR	1.88	24	FL OZ/A	6TR							
17 FUSION	2.66	10	FL OZ/A	6TR							
17 MSO		1	% V/V	6TR							
17 LIQUID N		2	% V/V	6TR							
18 GRAMOXONE INTEON	2	3	PT/A	PRE	0	0	0	0	0	0	0
18 ACTIVATOR 90		0.125	% V/V	PRE							
19 TOUCHDOWN TOTAL	4.17	24	FL OZ/A	6TR	88	93	82	90	0	99	86
19 DUAL II MAGNUM	7.64	1	LB A/A	6TR							
19 AMS	100	1	% W/V	6TR							
20 CHECK UNTREATED					0	0	0	0	0	33	20
LSD (P=.05)		4.5				5.8	9.9	6.4	2.1	21.2	14.2
Standard Deviation		2.7				3.5	6.0	3.9	1.3	12.8	8.6
CV		3.48				4.33	8.5	4.99	774.6	15.14	11.12
Grand Mean		77.88				80.93	70.42	78.15	0.17	84.78	77.23
Replicate F		0.070				7.529	0.774	1.152	1.000	1.363	0.793
Replicate Prob(F)		0.9322				0.0018	0.4684	0.3268	0.3774	0.2682	0.4599
Treatment F		490.182				303.124	79.681	229.669	1.000	19.270	43.459
Treatment Prob(F)		0.0001				0.0001	0.0001	0.0001	0.4823	0.0001	0.0001

Dept. of Agronomy, Univ. of Ky
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NO TILL SOYBEAN

Trial ID: S5020
Protocol ID:
Location: LEXINGTON, KY

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

Pest Type	W Weed	W Weed	W Weed	
Pest Code	XANST	IPOSS	ABUTH	
Pest Name	Common cocklebur	Morning glory	Velvetleaf	
Crop Code				GLXMA
BBCH Scale				BSOY
Crop Name				Soybean
Rating Data Type	CONTROL	CONTROL	CONTROL	YIELD BU/A
Rating Unit	PERCENT	PERCENT	PERCENT	12%
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	
ARM Action Codes	P	P	P	TY1
Number of Decimals	0	0	0	1

Trt No.	Treatment Name	Form	Rate	Growth Stage	23	24	25	30
1	CHECK UNTREATED				0	0	0	1.1
2	GRAMOXONE INTEON	2	3 PT/A	PRE	96	87	93	32.0
	2 ACTIVATOR 90		0.125 % V/V	PRE				
	2 SEQUENCE	5.25	2.5 PT/A	3TR				
	2 AMS	100	1 % W/V	3TR				
3	GRAMOXONE INTEON	2	3 PT/A	PRE	98	80	92	22.4
	3 ACTIVATOR 90		0.125 % V/V	PRE				
	3 SEQUENCE	5.25	3 PT/A	3TR				
	3 AMS	100	1 % W/V	3TR				
4	GRAMOXONE INTEON	2	3 PT/A	PRE	99	89	96	31.6
	4 ACTIVATOR 90		0.125 % V/V	PRE				
	4 SEQUENCE	5.25	3.5 PT/A	3TR				
	4 AMS	100	1 % W/V	3TR				
5	GRAMOXONE INTEON	2	3 PT/A	PRE	98	88	96	30.0
	5 ACTIVATOR 90		0.125 % V/V	PRE				
	5 SEQUENCE	5.25	4 PT/A	3TR				
	5 AMS	100	1 % W/V	3TR				
6	GRAMOXONE INTEON	2	3 PT/A	PRE	98	86	95	25.5
	6 ACTIVATOR 90		0.125 % V/V	PRE				
	6 TOUCHDOWN TOTAL	4.17	24 FL OZ/A	3TR				
	6 AMS	100	1 % W/V	3TR				
7	GRAMOXONE INTEON	2	3 PT/A	PRE	98	90	98	33.2
	7 ACTIVATOR 90		0.125 % V/V	PRE				
	7 TOUCHDOWN TOTAL	4.17	24 FL OZ/A	3TR				
	7 AMS	100	1 % W/V	3TR				
	7 TOUCHDOWN TOTAL	4.17	24 FL OZ/A	6TR				
	7 AMS	100	1 % W/V	6TR				

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NO TILL SOYBEAN

Trial ID: S5020

Protocol ID:
Location: LEXINGTON, KY

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

Pest Type	W Weed	W Weed	W Weed	
Pest Code	XANST	IPOSS	ABUTH	
Pest Name	Common cocklebur	Morning glory	Velvetleaf	
Crop Code				GLXMA
BBCH Scale				BSOY
Crop Name				Soybean
Rating Data Type	CONTROL	CONTROL	CONTROL	YIELD BU/A
Rating Unit	PERCENT	PERCENT	PERCENT	12%
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	
ARM Action Codes	P	P	P	TY1
Number of Decimals	0	0	0	1

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	23	24	25	30
8	SEQUENCE	5.25	2.5	PT/A	PRE	98	80	95	29.1
8	AMS	100	1	% W/V	PRE				
8	TOUCHDOWN TOTAL	4.17	24	FL OZ/A	6TR				
8	AMS	100	1	% W/V	6TR				
9	SEQUENCE	5.25	3	PT/A	PRE	98	86	93	32.0
9	AMS	100	1	% W/V	PRE				
9	TOUCHDOWN TOTAL	4.17	24	FL OZ/A	6TR				
9	AMS	100	1	% W/V	6TR				
10	SEQUENCE	5.25	3.5	PT/A	PRE	98	83	95	28.6
10	AMS	100	1	% W/V	PRE				
10	TOUCHDOWN TOTAL	4.17	24	FL OZ/A	6TR				
10	AMS	100	1	% W/V	6TR				
11	SEQUENCE	5.25	4	PT/A	PRE	99	82	91	30.3
11	AMS	100	1	% W/V	PRE				
11	TOUCHDOWN TOTAL	4.17	24	FL OZ/A	6TR				
11	AMS	100	1	% W/V	6TR				
12	GRAMOXONE INTEON	2	3	PT/A	PRE	98	80	93	34.4
12	ACTIVATOR 90		0.125	% V/V	PRE				
12	TOUCHDOWN TOTAL	4.17	24	FL OZ/A	6TR				
12	AMS	100	1	% W/V	6TR				
13	GRAMOXONE INTEON	2	3	PT/A	PRE	78	72	82	20.1
13	BOUNDARY	6.5	1.5	PT/A	PRE				
13	ACTIVATOR 90		0.125	% V/V	PRE				
14	GRAMOXONE INTEON	2	3	PT/A	PRE	95	82	93	32.2
14	BOUNDARY	6.5	1.5	PT/A	PRE				
14	ACTIVATOR 90		0.125	% V/V	PRE				
14	TOUCHDOWN TOTAL	4.17	24	FL OZ/A	6TR				
14	AMS	100	1	% W/V	6TR				

Dept. of Agronomy, Univ. of Ky
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NO TILL SOYBEAN

Trial ID: S5020

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Location: LEXINGTON, KY

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

Pest Type	W Weed	W Weed	W Weed	
Pest Code	XANST	IPOSS	ABUTH	
Pest Name	Common cocklebur	Morning glory	Velvetleaf	
Crop Code				GLXMA
BBCH Scale				BSOY
Crop Name				Soybean
Rating Data Type	CONTROL	CONTROL	CONTROL	YIELD BU/A
Rating Unit	PERCENT	PERCENT	PERCENT	12%
Trt-Eval Interval	8 WEEK	8 WEEK	8 WEEK	
ARM Action Codes	P	P	P	TY1
Number of Decimals	0	0	0	1

Trt No.	Treatment Name	Form Conc	Rate	Unit	Growth Stage	23	24	25	30
15	A14972A	5.27	2	PT/A	PRE	74	57	45	9.3
15	GRAMOXONE INTEON	2	3	PT/A	PRE				
15	ACTIVATOR 90		0.125	% V/V	PRE				
16	A14972A	5.27	2	PT/A	PRE	95	84	95	31.6
16	GRAMOXONE INTEON	2	3	PT/A	PRE				
16	ACTIVATOR 90		0.125	% V/V	PRE				
16	TOUCHDOWN TOTAL	4.17	24	FL OZ/A	6TR				
16	AMS	100	1	% W/V	6TR				
17	SEQUENCE	5.25	2.5	PT/A	PRE	98	75	93	15.8
17	AMS	100	1	% W/V	PRE				
17	FLEXSTAR	1.88	24	FL OZ/A	6TR				
17	FUSION	2.66	10	FL OZ/A	6TR				
17	MSO		1	% V/V	6TR				
17	LIQUID N		2	% V/V	6TR				
18	GRAMOXONE INTEON	2	3	PT/A	PRE	0	0	0	9.9
18	ACTIVATOR 90		0.125	% V/V	PRE				
19	TOUCHDOWN TOTAL	4.17	24	FL OZ/A	6TR	93	78	90	25.0
19	DUAL II MAGNUM	7.64	1	LB A/A	6TR				
19	AMS	100	1	% W/V	6TR				
20	CHECK UNTREATED					23	23	23	4.7
LSD (P=.05)						16.4	17.4	19.3	7.61
Standard Deviation						9.9	10.5	11.7	4.61
CV						12.18	15.04	15.0	19.25
Grand Mean						81.6	70.07	77.9	23.94
Replicate F						2.651	0.703	2.299	11.218
Replicate Prob(F)						0.0836	0.5014	0.1141	0.0001
Treatment F						32.628	21.417	23.251	15.077
Treatment Prob(F)						0.0001	0.0001	0.0001	0.0001

Dept. of Agronomy, Univ. of Ky
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NO TILL SOYBEAN

Trial ID: S5020
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Location: LEXINGTON, KY

Study Director: CHARLES H. SLACK
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Pest Type	W Weed	W Weed	W Weed	
Pest Code	XANST	IPOSS	ABUTH	
Pest Name	Common cocklebur	Morning glory	Velvetleaf	
Crop Code				GLXMA
BBCH Scale				BSOY
Crop Name				Soybean
Rating Data Type	CONTROL	CONTROL	CONTROL	YIELD BU/A
Rating Unit	PERCENT	PERCENT	PERCENT	12%
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	Form	Rate	Growth	
No. Name	Conc Rate	Unit	Stage	
				23 24 25 30

Column 26: TY1 = 10.53003*[27]*(100-[28])/88

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NO TILL SOYBEAN

Trial ID: S5020

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

Pest 5 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:** NO-TILL
Replications: 3 **Study Design:** Randomized Complete Block

Trial Initiation Comments:

Field Prep./Maintenance:

Soil Description

Description Name: MAURY
% Sand: 3 **% OM:** 2.5 **Texture:** SILT LOAM
% Silt: 63 **pH:** 6.5 **Soil Name:** MAURY
% 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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NO TILL SOYBEAN

Trial ID: S5020
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Study Director: CHARLES H. SLACK
Investigator: Charles H. Slack

Application Description

	A	B	C
Application Date:	5-9-05	6-7-05	6-20-05
Time of Day:	3:30 PM	10:00 AM	11:00 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	3TR	6TR
Application Placement:	BROSOI	BROFOL	BROFOL
Applied By:	C. H. SLACK	C. H. SLACK	C. H. SLACK
Air Temperature, Unit:	82 F	80 F	75 F
% Relative Humidity:	45	40	20
Wind Velocity, Unit:	4 MPH	4 MPH	2 MPH
Wind Direction:	SW	SW	SW
Soil Temperature, Unit:	70 F	85 F	80 F
Soil Moisture:	ADEQUATE	INADEQUATE	ADEQUATE
% Cloud Cover:	20	30	20

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:	BBCH	3TR	6TR
Height, Unit:	4	IN 10	IN

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Disc., Scale:	SETFA W	SETFA W	SETFA W
Stage Majority, Percent:	4LF	6LF	
Height, Unit:	4	IN 10	IN
Pest 2 Code, Disc., Scale:	CHEAL W	CHEAL W	CHEAL W
Stage Majority, Percent:	10 LF	20 LF	
Height, Unit:	4	IN 10	IN
Pest 3 Code, Disc., Scale:	XANST W	XANST W	XANST W
Stage Majority, Percent:	6 LF	8 LF	
Height, Unit:	4	IN 10	IN
Pest 4 Code, Disc., Scale:	IPOSS W	IPOSS W	IPOSS W
Stage Majority, Percent:	2 LF	6 LF	
Height, Unit:	4	IN 10	IN
Pest 5 Code, Disc., Scale:	ABUTH W	ABUTH W	ABUTH W
Stage Majority, Percent:	4 LF	6 LF	
Height, Unit:	4	IN 10	IN

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Trial ID: S5020
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Investigator: Charles H. Slack

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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NO TILL SOYBEAN EARLY PREPLANT III

Trial ID: S5022
Protocol ID: Study Director: CHARLES H. SLACK
Location: LEXINGTON, KY Investigator: Charles H. Slack

Trt Treatment No. Name	Form Conc	Rate Rate Unit	Growth Stage	1	2	3	4	5	6	7	8
18 EXTREME	2.17	3 PT/A	18D	99	99	99	0	99	96	98	0
18 WEEDONE LV4	3.8	1 PT/A	18D								
18 ACTIVATOR 90		0.25 % V/V	18D								
18 AMS		3 % V/V	18D								
18 ROUNDUP WeatherMAX	5.5	22 FL OZ/A	LP								
18 AMS		3.7 % V/V	LP								
LSD (P=.05)				0.0	0.0	0.0	0.0	0.0	7.5	3.1	0.0
Standard Deviation				0.0	0.0	0.0	0.0	0.0	5.3	2.2	0.0
CV				0.0	0.0	0.0	0.0	0.0	5.57	2.24	0.0
Grand Mean				99.0	99.0	99.0	0.0	99.0	95.64	97.63	0.0
Replicate F				0.000	0.000	0.000	0.000	0.000	1.077	1.471	0.000
Replicate Prob(F)				1.0000	1.0000	1.0000	1.0000	1.0000	0.3670	0.2335	1.0000
Treatment F				0.000	0.000	0.000	0.000	0.000	1.311	1.019	0.000
Treatment Prob(F)				1.0000	1.0000	1.0000	1.0000	1.0000	0.2239	0.4546	1.0000

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NO TILL SOYBEAN EARLY PREPLANT III

Trial ID: S5022
 Protocol ID: Study Director: CHARLES H. SLACK
 Location: LEXINGTON, KY Investigator: Charles H. Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	ERICA	SETFA	AMBTR	ERICA
Pest Name	Giant foxtail	Giant Ragweed	Horseweed, Canada	Giant foxtail	Giant Ragweed	Horseweed, Canada
Crop Code				GLXMA		
BBCH Scale				BSOY		
Crop Name				Soybean		
Rating Data Type	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	4 WEEK	4 WEEK	4 WEEK	8 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 No. Name	Form Conc	Rate Rate	Growth Unit Stage	9	10	11	12	13	14	15
13 CANOPY XL	56.3	4.5 OZ/A	18D	99	99		0	99	99	99
13 WEEDONE LV4	3.8	1 PT/A	18D							
13 COC		1 QT/A	18D							
13 ROUNDUP WeatherMAX	5.5	22 FL OZ/A	LP							
13 AMS		3.7 % V/V	LP							
14 CLASSIC	25	1.7 OZ/A	18D	99	99		0	99	99	99
14 VALOR SX	51	2 OZ/A	18D							
14 WEEDONE LV4	3.8	1 PT/A	18D							
14 COC		1 QT/A	18D							
14 ROUNDUP WeatherMAX	5.5	22 FL OZ/A	LP							
14 AMS		3.7 % V/V	LP							
15 LINEX	4	1 PT/A	18D	99	96		0	99	96	97
15 WEEDONE LV4	3.8	1 PT/A	18D							
15 COC		1 QT/A	18D							
15 ROUNDUP WeatherMAX	5.5	22 FL OZ/A	LP							
15 AMS		3.7 % V/V	LP							
16 LINEX	4	1.5 PT/A	18D	99	98		0	99	97	97
16 WEEDONE LV4	3.8	1 PT/A	18D							
16 COC		1 QT/A	18D							
16 ROUNDUP WeatherMAX	5.5	22 FL OZ/A	LP							
16 AMS		3.7 % V/V	LP							
17 SENCOR 4 FL	4	6 OZ/A	18D	99	95		0	99	95	95
17 WEEDONE LV4	3.8	1 PT/A	18D							
17 COC		1 QT/A	18D							
17 ROUNDUP WeatherMAX	5.5	22 FL OZ/A	LP							
17 AMS		3.7 % V/V	LP							

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NO TILL SOYBEAN EARLY PREPLANT III

Trial ID: S5022
Protocol ID:
Location: LEXINGTON, KY
Study Director: CHARLES H. SLACK
Investigator: Charles H. Slack

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	SETFA	AMBTR	ERICA	SETFA	AMBTR	ERICA				
Pest Name	Giant foxtail	Giant Ragweed	Horseweed, Canada	Giant foxtail	Giant Ragweed	Horseweed, Canada				
Crop Code				GLXMA						
BBCH Scale				BSOY						
Crop Name				Soybean						
Rating Data Type	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL				
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT				
Trt-Eval Interval	4 WEEK	4 WEEK	4 WEEK	8 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 No. Name	Form Conc	Rate Rate Unit	Growth Stage	9	10	11	12	13	14	15
18 EXTREME	2.17	3 PT/A	18D	99	98	98	0	99	98	98
18 WEEDONE LV4	3.8	1 PT/A	18D							
18 ACTIVATOR 90		0.25 % V/V	18D							
18 AMS		3 % V/V	18D							
18 ROUNDUP WeatherMAX	5.5	22 FL OZ/A	LP							
18 AMS		3.7 % V/V	LP							
LSD (P=.05)				0.0	4.0	2.4	0.0	0.0	4.7	3.6
Standard Deviation				0.0	2.8	1.7	0.0	0.0	3.3	2.5
CV				0.0	2.89	1.77	0.0	0.0	3.42	2.61
Grand Mean				99.0	97.4	97.81	0.0	99.0	97.11	97.42
Replicate F				0.000	3.024	1.063	0.000	0.000	2.491	1.508
Replicate Prob(F)				1.0000	0.0379	0.3732	1.0000	1.0000	0.0706	0.2236
Treatment F				0.000	1.536	1.456	0.000	0.000	1.422	1.273
Treatment Prob(F)				1.0000	0.1194	0.1503	1.0000	1.0000	0.1653	0.2477

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NO TILL SOYBEAN EARLY PREPLANT III

Trial ID: S5022
Protocol ID: Study Director: CHARLES H. SLACK
Location: LEXINGTON, KY Investigator: Charles H. Slack

Pest 4 Type: W **Code:** ERICA Erigeron canadensis
Common Name: Horseweed, Canada

Site and Design

Plot Width, Unit: 6.66 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**

Description Name: MAURY
% Sand: 6 **% OM:** 2.7 **Texture:** SILT LOAM
% Silt: 64 **pH:** 6.5 **Soil Name:** MAURY
% Clay: 30 **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:	4-18-05	6-7-05
Time of Day:	3 PM	6 PM
Application Method:	SPRAY	SPRAY
Application Timing:	18 DAY	LP
Application Placement:	BROFOL	BROFOL
Applied By:	C H SLACK	C. H. SLACK
Air Temperature, Unit:	77 F	85 F
% Relative Humidity:	41	45
Wind Velocity, Unit:	4 MPH	4 MPH
Wind Direction:	SW	SW
Soil Temperature, Unit:	61 F	78 F
Soil Moisture:	DRY	DRY
% Cloud Cover:	50	20

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NO TILL SOYBEAN EARLY PREPLANT III

Trial ID: S5022
Protocol ID:
Location: LEXINGTON, KY

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

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:	BBCH	V3
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:	6	IN
Pest 3 Code, Disc., Scale:	STEME W	STEME W
Height, Unit:	6	IN
Pest 4 Code, Disc., Scale:	ERICA W	ERICA W
Height, Unit:	2	IN 6 IN

Application Equipment

	A	B
Appl. Equipment:	ATV	ATV
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:	6.66 FT	6.66 FT
Boom Height, Unit:	20 IN	20 IN
Ground Speed, Unit:	4 MPH	4 MPH
Carrier:	WATER	WATER
Spray Volume:	24	24
Volume Unit:	GPA	GPA
Propellant:	CO2	CO2