

Postemerge Programs for Glyphosate-Tolerant Corn

Trial ID: CN FMC Bayr Post 03 Study Director:
Location: Ashland Otto East Investigator: David L Regehr

Crop Description	
Crop 1: ZEAMX Zea mays	field corn
Variety: Asgrow RX718RR	
BBCH Scale: BCOR	Planting Date: 6/May/2003
Planting Method: White 6700	Rate, Unit: 24000 S/A
Depth, Unit: 1.5 in	
Row Spacing, Unit: 30 in	
Seed Bed: Good	Soil Temperature, Unit: 62 F
Soil Moisture: Moist	Emergence Date: 13/May/2003

Pest Description	
Pest 1 Type: W Code: DIGSA Digitaria sanguinalis Common Name: Crabgrass, large	
Pest 2 Type: W Code: AMAPA Amaranthus palmeri Common Name: Amaranth, Palmer	
Pest 3 Type: W Code: ABUTH Abutilon theophrasti Common Name: Velvetleaf	
Pest 4 Type: W Code: IPOHE Ipomoea hederacea Common Name: Morningglory, ivyleaf	
Pest 5 Type: W Code: SORBI Sorghum bicolor Common Name: Rox orange forage sorghum Description: shattercane mimic	
Pest 6 Type: W Code: HELAN Helianthus annuus Common Name: Common sunflower Description: domestic oil-seed sunflower	

Site and Design	
Plot Width, Unit: 6.67 FT	Site Type: cropland
Plot Length, Unit: 25 FT	Tillage Type: conventional
Replications: 3	Study Design: Randomized Complete Block

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.	grain sorghum		2002

Soil Description	
% Sand: 14	Texture: Silt loam
% Silt: 62	Soil Name: Reading
% Clay: 24	Fert. Level: good
% OM: 2.3	
pH: 6.3	
CEC: 18	

Application Description		
	A	B
Application Date:	21/May/2003	10/Jun/2003
Time of Day:	3:15 PM	8:30 AM
Application Method:	BRDCST	BRDCST
Application Timing:	XErly Po	mid-post
Application Placement:	FOLIAR	FOLIAR
Applied By:	J. MILLER	C. MINIHAN
Air Temperature, Unit:	66 F	78 F
% Relative Humidity:	19	74
Wind Velocity, Unit:	4 NE	1 N
Dew Presence (Y/N):	N	N
Water Hardness:	City H20	City H20
Soil Temperature, Unit:		69 F
Soil Moisture:	MOIST	MOIST
% Cloud Cover:	0	30

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH	BBCH
Stage Majority, Percent:	1 LF 100	4LF 4CL 100
Height, Unit:	2 IN	16 IN

Pest Stage At Each Application

	A	B
Pest 1 Code, Disc., Scale:	DIGSA W	DIGSA W
Stage Majority, Percent:	EM	tilr
Height, Unit:	0.5 IN	4 IN
Density, Unit:	10 plt/ft2	
Pest 2 Code, Disc., Scale:	AMAPA W	AMAPA W
Stage Majority, Percent:	EM 2LF	6-16"
Height, Unit:	0.5 IN	16 IN
Density, Unit:	0.5 plt/ft2	
Pest 3 Code, Disc., Scale:	ABUTH W	ABUTH W
Stage Majority, Percent:	COT	2-4 LF
Height, Unit:	0.75 IN	7 IN
Density, Unit:	20 row	
Pest 4 Code, Disc., Scale:	IPOHE W	IPOHE W
Stage Majority, Percent:	COT	2-4LF
Height, Unit:	1 IN	4 IN
Density, Unit:	20 row	
Pest 5 Code, Disc., Scale:	SORBI W	SORBI W
Stage Majority, Percent:	1LF	3LF
Height, Unit:	1 IN	6 IN
Density, Unit:	10 row	
Pest 6 Code, Disc., Scale:	HELAN W	HELAN W
Stage Majority, Percent:	COT	8-10LF
Height, Unit:	0.75 IN	16 IN
Density, Unit:	15 row	

Application Equipment

	A	B
Appl. Equipment:	TRACTOR	TRACTOR
Operating Pressure:	20	20
Pressure Unit:	PSI	PSI
Nozzle Type:	TURBO TEE	TURBO TEE
Nozzle Size:	11003	11003
Nozzle Spacing, Unit:	20 IN	20 IN
Boom Length, Unit:	6.67 FT	6.67 FT
Boom Height, Unit:	16 IN	31 IN
Ground Speed, Unit:	4.1 MPH	4.1 MPH
Carrier:	Water	Water
Spray Volume:	15	15
Volume Unit:	GAL/AC	GAL/AC
Propellant:	Comp. Air	Comp. Air

Postemergence Programs for Glyphosate-Tolerant Corn**Trial ID: CN FMC Bayr Post 03****Study Director:****Location: Ashland Otto East****Investigator: David L Regehr**

Trial Comments

This experiment compared extra-early postemergence and mid-postemergence treatments for glyphosate-tolerant field corn. Many non-glyphosate treatments are included that are applicable to other field corn hybrids.

Corn with extra-early postemergence application of Bicep II Magnum with crop oil concentrate showed some stunting. The injury was temporary, and corn developed normally due to excellent weed control with this treatment. Some of the Option and Equip treatments resulted in temporary "yellow flash" and leaning corn. Some of the PHYGEN (general crop phytotoxicity) numbers for the June 24 and July 7 ratings reflect the effects of poorly control weeds on corn development, and not toxic effects of the herbicides on corn.

Large crabgrass (DIGSA) was 4 inches tall and tillered when the mid-post treatments were applied, and there was a fairly heavy stand of grass in the front half of the plots. Single applications of glyphosate gave adequate, but not complete, control of crabgrass. Better control was achieved with extra-early postemergence Bicep with crop oil concentrate. None of the Option, Equip or Accent treatments gave satisfactory crabgrass control. By August, most of these plots were indistinguishable from the untreated check.

Palmer amaranth (AMAPA) control was excellent for the extra-early post treatments, and treatments with 18 oz WeatherMax, with or without atrazine. Addition of Aim to WeatherMax tended to reduce control at both rates. Option and Equip at the higher rates produced fair control of pigweed, but it was not on a par with control by glyphosate or the extra-early atrazine treatments.

Ivyleaf morningglory (IPOHE) control was excellent only for treatments containing atrazine. WeatherMax at either rate did not give satisfactory control of 4-inch tall morningglory that was not yet vining. Addition of Aim appeared to help WeatherMax a bit. Rating criteria for morningglory in August were: 50% control if vines were waist high; 70% for knee high; 30% for head high. Untreated morningglory was vining to the top of the corn canopy.

Velvetleaf (ABUTH) control was excellent for the extra-early treatments, and for all WeatherMax and Aim, and for the higher rates of Equip and Option.

Rox orange sorghum (SORBI) control was excellent for all but the extra-early Bicep and atrazine treatments. Rate effects were evident in the Option and Equip treatments.

~~Sunflower (HEL AN) control was generally excellent. Planted sunflower generally emerges quickly and grows rapidly. Extra-early atrazine gave complete control, as did all WeatherMax, Equip, and Option treatments.~~

Postemerge Programs for Glyphosate-Tolerant Corn

Trial ID: CN FMC Bayr Post 03

Study Director:

Location: Ashland Otto East

Investigator: David L Regehr

Pest Type							
Pest Code							
Crop Code				ZEAMX	ZEAMX	ZEAMX	
BBCH Scale				BCOR	BCOR	BCOR	
Rating Date				11/Jun/2003	24/Jun/2003	7/Jul/2003	
Rating Data Type				PHYGEN	PHYGEN	PHYGEN	
Days After Last Applic.				1	14	28	
Trt No.	Treatment Name	Other Rate	Other Rate Unit	Growth Stage			
					1	8	
1	Aim	0.5 fl oz/a		MidPost		1 cd	2 d
	RU WeatherMax	13 fl oz/a		MidPost			
	Ammonium Sulfate	12 lb/100 gal		MidPost			
2	Aim	0.5 fl oz/a		MidPost		1 cd	0 d
	RU WeatherMax	18 fl oz/a		MidPost			
	Ammonium Sulfate	12 lb/100 gal		MidPost			
3	RU WeatherMax	13 fl oz/a		MidPost		1 cd	4 cd
	Ammonium Sulfate	12 lb/100 gal		MidPost			
4	RU WeatherMax	18 fl oz/a		MidPost		0 d	0 d
	Ammonium Sulfate	12 lb/100 gal		MidPost			
5	Atrazine	2 qt/a		MidPost		1 cd	0 d
	RU WeatherMax	18 fl oz/a		MidPost			
	Ammonium Sulfate	12 lb/100 gal		MidPost			
6	Untreated check				0 b	0 d	20 a
7	Option	0.5 oz/a		MidPost		3 abc	8 bc
	Methylated Seed Oil	0.75 qt/a		MidPost			
	UAN 28%	1.5 qt/a		MidPost			
8	Option	1 oz/a		MidPost		4 ab	10 b
	Methylated Seed Oil	0.75 qt/a		MidPost			
	UAN 28%	1.5 qt/a		MidPost			
9	Option	1.5 oz/a		MidPost		3 abc	9 bc
	Methylated Seed Oil	0.75 qt/a		MidPost			
	UAN 28%	1.5 qt/a		MidPost			
10	Equip	0.5 oz/a		MidPost		1 cd	10 b
	Methylated Seed Oil	0.75 qt/a		MidPost			
	UAN 28%	1.5 qt/a		MidPost			
11	Equip	1 oz/a		MidPost		1 cd	3 cd
	Methylated Seed Oil	0.75 qt/a		MidPost			
	UAN 28%	1.5 qt/a		MidPost			
12	Equip	1.5 oz/a		MidPost		4 ab	8 bc
	Methylated Seed Oil	0.75 qt/a		MidPost			
	UAN 28%	1.5 qt/a		MidPost			
13	Option	0.5 oz/a		MidPost		2 bcd	10 b
	Permit	0.5 oz/a		MidPost			
	Methylated Seed Oil	0.75 qt/a		MidPost			
	UAN 28%	1.5 qt/a		MidPost			
14	Accent SP	0.5 oz/a		MidPost		1 cd	9 bc
	Crop Oil Conc	1 qt/a		MidPost			
	UAN 28%	2 qt/a		MidPost			
15	Atrazine	1.6 qt/a		XtrEPost	0 b	0 d	1 d
	Crop Oil Concentrat	1 qt/a		XtrEPost			
16	Bicep II Magnum	2.1 qt/a		XtrEPost	12 a	5 a	0 d
	Crop Oil Concentrat	1 qt/a		XtrEPost			
LSD (P=.05)					0.0	1.5	3.9
CV					0.0	52.19	40.43

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Postemergence Programs for Glyphosate-Tolerant Corn				
Trial ID: CN FMC Bayr Post 03		Study Director:		
Location: Ashland Otto East		Investigator: David L Regehr		
Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	DIGSA	DIGSA	DIGSA	DIGSA
Crop Code				
BBCH Scale				
Rating Date	11/Jun/2003	24/Jun/2003	7/Jul/2003	13/Aug/2003
Rating Data Type	CONTRO	CONTRO	CONTRO	CONTRO
Days After Last Applic.	1	14	28	64
Trt No.	Treatment Name	Other Rate	Other Rate Unit	Growth Stage
				2
1	Aim	0.5 fl oz/a	MidPost	
	RU WeatherMax	13 fl oz/a	MidPost	86 a
	Ammonium Sulfate	12 lb/100 gal	MidPost	87 ab
2	Aim	0.5 fl oz/a	MidPost	
	RU WeatherMax	18 fl oz/a	MidPost	95 a
	Ammonium Sulfate	12 lb/100 gal	MidPost	95 a
3	RU WeatherMax	13 fl oz/a	MidPost	
	Ammonium Sulfate	12 lb/100 gal	MidPost	87 a
4	RU WeatherMax	18 fl oz/a	MidPost	
	Ammonium Sulfate	12 lb/100 gal	MidPost	95 a
5	Atrazine	2 qt/a	MidPost	
	RU WeatherMax	18 fl oz/a	MidPost	83 a
	Ammonium Sulfate	12 lb/100 gal	MidPost	94 a
6	Untreated check			
				0 c
7	Option	0.5 oz/a	MidPost	
	Methylated Seed Oil	0.75 qt/a	MidPost	45 d
	UAN 28%	1.5 qt/a	MidPost	37 d
8	Option	1 oz/a	MidPost	
	Methylated Seed Oil	0.75 qt/a	MidPost	57 bcd
	UAN 28%	1.5 qt/a	MidPost	48 cd
9	Option	1.5 oz/a	MidPost	
	Methylated Seed Oil	0.75 qt/a	MidPost	60 bcd
	UAN 28%	1.5 qt/a	MidPost	53 c
10	Equip	0.5 oz/a	MidPost	
	Methylated Seed Oil	0.75 qt/a	MidPost	50 cd
	UAN 28%	1.5 qt/a	MidPost	40 cd
11	Equip	1 oz/a	MidPost	
	Methylated Seed Oil	0.75 qt/a	MidPost	65 b
	UAN 28%	1.5 qt/a	MidPost	53 c
12	Equip	1.5 oz/a	MidPost	
	Methylated Seed Oil	0.75 qt/a	MidPost	63 bc
	UAN 28%	1.5 qt/a	MidPost	53 c
13	Option	0.5 oz/a	MidPost	
	Permit	0.5 oz/a	MidPost	47 d
	Methylated Seed Oil	0.75 qt/a	MidPost	37 d
	UAN 28%	1.5 qt/a	MidPost	22 d
14	Accent SP	0.5 oz/a	MidPost	
	Crop Oil Conc	1 qt/a	MidPost	47 d
	UAN 28%	2 qt/a	MidPost	43 cd
15	Atrazine	1.6 qt/a	XtrEPost	
	Crop Oil Concentrat	1 qt/a	XtrEPost	94 b
				85 a
				80 b
16	Bicep II Magnum	2.1 qt/a	XtrEPost	
	Crop Oil Concentrat	1 qt/a	XtrEPost	98 a
				95 a
				95 a
				89 a
LSD (P=.05)		1.9	10.2	9.2
CV		1.28	9.2	8.87
				10.7
				12.71

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Postemerge Programs for Glyphosate-Tolerant Corn

Trial ID: CN FMC Bayr Post 03

Study Director:

Location: Ashland Otto East

Investigator: David L Regehr

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMAPA	AMAPA	AMAPA	AMAPA
Crop Code				
BBCH Scale				
Rating Date	11/Jun/2003	24/Jun/2003	7/Jul/2003	13/Aug/2003
Rating Data Type	CONTRO	CONTRO	CONTRO	CONTRO
Days After Last Applic.	1	14	28	64
Trt Treatment	Other	Other	Growth	
No. Name	Rate	Rate Unit	Stage	
3				
1 Aim	0.5 fl oz/a	MidPost		79 c-f
RU WeatherMax	13 fl oz/a	MidPost		75 cde
Ammonium Sulfate	12 lb/100 gal	MidPost		67 bc
2 Aim	0.5 fl oz/a	MidPost		85 a-e
RU WeatherMax	18 fl oz/a	MidPost		87 abc
Ammonium Sulfate	12 lb/100 gal	MidPost		83 ab
3 RU WeatherMax	13 fl oz/a	MidPost		91 abc
Ammonium Sulfate	12 lb/100 gal	MidPost		91 ab
4 RU WeatherMax	18 fl oz/a	MidPost		96 ab
Ammonium Sulfate	12 lb/100 gal	MidPost		99 a
5 Atrazine	2 qt/a	MidPost		96 ab
RU WeatherMax	18 fl oz/a	MidPost		99 a
Ammonium Sulfate	12 lb/100 gal	MidPost		99 a
6 Untreated check				0 b
7 Option	0.5 oz/a	MidPost		70 ef
Methylated Seed Oil	0.75 qt/a	MidPost		71 de
UAN 28%	1.5 qt/a	MidPost		48 c
8 Option	1 oz/a	MidPost		75 def
Methylated Seed Oil	0.75 qt/a	MidPost		75 cde
UAN 28%	1.5 qt/a	MidPost		50 c
9 Option	1.5 oz/a	MidPost		83 b-e
Methylated Seed Oil	0.75 qt/a	MidPost		77 cde
UAN 28%	1.5 qt/a	MidPost		70 bc
10 Equip	0.5 oz/a	MidPost		73 def
Methylated Seed Oil	0.75 qt/a	MidPost		64 e
UAN 28%	1.5 qt/a	MidPost		53 c
11 Equip	1 oz/a	MidPost		82 b-e
Methylated Seed Oil	0.75 qt/a	MidPost		82 bcd
UAN 28%	1.5 qt/a	MidPost		65 bc
12 Equip	1.5 oz/a	MidPost		86 a-d
Methylated Seed Oil	0.75 qt/a	MidPost		81 bcd
UAN 28%	1.5 qt/a	MidPost		68 bc
13 Option	0.5 oz/a	MidPost		67 f
Permit	0.5 oz/a	MidPost		73 cde
Methylated Seed Oil	0.75 qt/a	MidPost		45 c
UAN 28%	1.5 qt/a	MidPost		
14 Accent SP	0.5 oz/a	MidPost		80 c-f
Crop Oil Conc	1 qt/a	MidPost		77 cde
UAN 28%	2 qt/a	MidPost		67 bc
15 Atrazine	1.6 qt/a	XtrEPost	99 a	99 a
Crop Oil Concentrat	1 qt/a	XtrEPost	99 a	99 a
16 Bicep II Magnum	2.1 qt/a	XtrEPost	99 a	99 a
Crop Oil Concentrat	1 qt/a	XtrEPost	99 a	99 a
LSD (P=.05)	0.0	9.6	9.3	17.9
CV	0.0	7.29	7.12	15.6

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Postemerge Programs for Glyphosate-Tolerant Corn

Trial ID: CN FMC Bayr Post 03

Study Director:

Location: Ashland Otto East

Investigator: David L Regehr

Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		IPHOE	IPHOE	IPHOE	IPHOE
Crop Code					
BBCH Scale					
Rating Date		11/Jun/2003	24/Jun/2003	7/Jul/2003	13/Aug/2003
Rating Data Type		CONTRO	CONTRO	CONTRO	CONTRO
Days After Last Applic.		1	14	28	64
Trt No.	Treatment Name	Other Rate	Other Rate Unit	Growth Stage	
					4 14 21 27
1	Aim	0.5	fl oz/a	MidPost	83 bcd
	RU WeatherMax	13	fl oz/a	MidPost	75 bc
	Ammonium Sulfate	12	lb/100 gal	MidPost	69 abc
2	Aim	0.5	fl oz/a	MidPost	87 bc
	RU WeatherMax	18	fl oz/a	MidPost	80 bc
	Ammonium Sulfate	12	lb/100 gal	MidPost	70 abc
3	RU WeatherMax	13	fl oz/a	MidPost	80 cd
	Ammonium Sulfate	12	lb/100 gal	MidPost	65 c
4	RU WeatherMax	18	fl oz/a	MidPost	78 cd
	Ammonium Sulfate	12	lb/100 gal	MidPost	75 bc
5	Atrazine	2	qt/a	MidPost	91 b
	RU WeatherMax	18	fl oz/a	MidPost	98 a
	Ammonium Sulfate	12	lb/100 gal	MidPost	96 ab
6	Untreated check				0 b 0 f 0 d 0 d
7	Option	0.5	oz/a	MidPost	65 e
	Methylated Seed Oil	0.75	qt/a	MidPost	63 c
	UAN 28%	1.5	qt/a	MidPost	38 c
8	Option	1	oz/a	MidPost	80 cd
	Methylated Seed Oil	0.75	qt/a	MidPost	69 bc
	UAN 28%	1.5	qt/a	MidPost	58 c
9	Option	1.5	oz/a	MidPost	82 bcd
	Methylated Seed Oil	0.75	qt/a	MidPost	80 bc
	UAN 28%	1.5	qt/a	MidPost	66 bc
10	Equip	0.5	oz/a	MidPost	75 d
	Methylated Seed Oil	0.75	qt/a	MidPost	73 bc
	UAN 28%	1.5	qt/a	MidPost	55 c
11	Equip	1	oz/a	MidPost	83 bcd
	Methylated Seed Oil	0.75	qt/a	MidPost	85 ab
	UAN 28%	1.5	qt/a	MidPost	70 abc
12	Equip	1.5	oz/a	MidPost	85 bcd
	Methylated Seed Oil	0.75	qt/a	MidPost	82 bc
	UAN 28%	1.5	qt/a	MidPost	60 c
13	Option	0.5	oz/a	MidPost	80 cd
	Permit	0.5	oz/a	MidPost	74 bc
	Methylated Seed Oil	0.75	qt/a	MidPost	47 c
	UAN 28%	1.5	qt/a	MidPost	
14	Accent SP	0.5	oz/a	MidPost	62 e
	Crop Oil Conc	1	qt/a	MidPost	70 bc
	UAN 28%	2	qt/a	MidPost	56 c
15	Atrazine	1.6	qt/a	XtrEPost	99 a
	Crop Oil Concentrat	1	qt/a	XtrEPost	99 a
16	Bicep II Magnum	2.1	qt/a	XtrEPost	99 a
	Crop Oil Concentrat	1	qt/a	XtrEPost	99 a
LSD (P=.05)		0.0			6.3 11.3 20.0
CV		0.0			4.91 9.16 19.08

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Postemergence Programs for Glyphosate-Tolerant Corn				
Trial ID: CN FMC Bayr Post 03		Study Director:		
Location: Ashland Otto East		Investigator: David L Regehr		
Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	ABUTH	ABUTH	ABUTH	ABUTH
Crop Code				
BBCH Scale				
Rating Date	11/Jun/2003	24/Jun/2003	7/Jul/2003	13/Aug/2003
Rating Data Type	CONTRO	CONTRO	CONTRO	CONTRO
Days After Last Applic.	1	14	28	64
Trt No.	Treatment Name	Other Rate	Other Rate Unit	Growth Stage
				5
1	Aim	0.5 fl oz/a	MidPost	
	RU WeatherMax	13 fl oz/a	MidPost	95 ab
	Ammonium Sulfate	12 lb/100 gal	MidPost	98 a
2	Aim	0.5 fl oz/a	MidPost	
	RU WeatherMax	18 fl oz/a	MidPost	98 a
	Ammonium Sulfate	12 lb/100 gal	MidPost	98 a
3	RU WeatherMax	13 fl oz/a	MidPost	
	Ammonium Sulfate	12 lb/100 gal	MidPost	96 ab
4	RU WeatherMax	18 fl oz/a	MidPost	
	Ammonium Sulfate	12 lb/100 gal	MidPost	95 ab
5	Atrazine	2 qt/a	MidPost	
	RU WeatherMax	18 fl oz/a	MidPost	97 a
	Ammonium Sulfate	12 lb/100 gal	MidPost	98 a
6	Untreated check			0 b
7	Option	0.5 oz/a	MidPost	
	Methylated Seed Oil	0.75 qt/a	MidPost	82 c
	UAN 28%	1.5 qt/a	MidPost	86 b
8	Option	1 oz/a	MidPost	
	Methylated Seed Oil	0.75 qt/a	MidPost	87 bc
	UAN 28%	1.5 qt/a	MidPost	85 b
9	Option	1.5 oz/a	MidPost	
	Methylated Seed Oil	0.75 qt/a	MidPost	92 ab
	UAN 28%	1.5 qt/a	MidPost	92 ab
10	Equip	0.5 oz/a	MidPost	
	Methylated Seed Oil	0.75 qt/a	MidPost	91 ab
	UAN 28%	1.5 qt/a	MidPost	94 ab
11	Equip	1 oz/a	MidPost	
	Methylated Seed Oil	0.75 qt/a	MidPost	91 ab
	UAN 28%	1.5 qt/a	MidPost	93 ab
12	Equip	1.5 oz/a	MidPost	
	Methylated Seed Oil	0.75 qt/a	MidPost	95 ab
	UAN 28%	1.5 qt/a	MidPost	94 ab
13	Option	0.5 oz/a	MidPost	
	Permit	0.5 oz/a	MidPost	95 ab
	Methylated Seed Oil	0.75 qt/a	MidPost	96 a
	UAN 28%	1.5 qt/a	MidPost	99 a
14	Accent SP	0.5 oz/a	MidPost	
	Crop Oil Conc	1 qt/a	MidPost	57 d
	UAN 28%	2 qt/a	MidPost	62 c
15	Atrazine	1.6 qt/a	XtrEPost	99 a
	Crop Oil Concentrat	1 qt/a	XtrEPost	99 a
16	Bicep II Magnum	2.1 qt/a	XtrEPost	99 a
	Crop Oil Concentrat	1 qt/a	XtrEPost	99 a
LSD (P=.05)		0.0	6.0	6.1
CV		0.0	4.18	4.24
				10.7
				7.46

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)

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Postemerge Programs for Glyphosate-Tolerant Corn

Trial ID: CN FMC Bayr Post 03

Study Director:

Location: Ashland Otto East

Investigator: David L Regehr

Pest Type				W Weed	W Weed	W Weed	W Weed	
Pest Code				SORBI	SORBI	SORBI	SORBI	
Crop Code								
BBCH Scale								
Rating Date				11/Jun/2003	24/Jun/2003	7/Jul/2003	13/Aug/2003	
Rating Data Type				CONTRO	CONTRO	CONTRO	CONTRO	
Days After Last Applic.				1	14	28	64	
Trt No.	Treatment Name	Other Rate	Other Rate Unit	Growth Stage				
1	Aim	0.5	fl oz/a	MidPost	6	12	19	
	RU WeatherMax	13	fl oz/a	MidPost		95 ab	97 a	
	Ammonium Sulfate	12	lb/100 gal	MidPost			98 a	
2	Aim	0.5	fl oz/a	MidPost		96 ab	98 a	
	RU WeatherMax	18	fl oz/a	MidPost			99 a	
	Ammonium Sulfate	12	lb/100 gal	MidPost				
3	RU WeatherMax	13	fl oz/a	MidPost		95 ab	97 a	
	Ammonium Sulfate	12	lb/100 gal	MidPost			98 a	
4	RU WeatherMax	18	fl oz/a	MidPost		99 a	99 a	
	Ammonium Sulfate	12	lb/100 gal	MidPost			99 a	
5	Atrazine	2	qt/a	MidPost		96 ab	99 a	
	RU WeatherMax	18	fl oz/a	MidPost			99 a	
	Ammonium Sulfate	12	lb/100 gal	MidPost				
6	Untreated check				0 b	0 e	0 d	
7	Option	0.5	oz/a	MidPost		87 bc	92 a	
	Methylated Seed Oil	0.75	qt/a	MidPost			99 a	
	UAN 28%	1.5	qt/a	MidPost				
8	Option	1	oz/a	MidPost		93 abc	96 a	
	Methylated Seed Oil	0.75	qt/a	MidPost			99 a	
	UAN 28%	1.5	qt/a	MidPost				
9	Option	1.5	oz/a	MidPost		93 abc	97 a	
	Methylated Seed Oil	0.75	qt/a	MidPost			99 a	
	UAN 28%	1.5	qt/a	MidPost				
10	Equip	0.5	oz/a	MidPost		83 c	94 a	
	Methylated Seed Oil	0.75	qt/a	MidPost			99 a	
	UAN 28%	1.5	qt/a	MidPost				
11	Equip	1	oz/a	MidPost		92 abc	94 a	
	Methylated Seed Oil	0.75	qt/a	MidPost			99 a	
	UAN 28%	1.5	qt/a	MidPost				
12	Equip	1.5	oz/a	MidPost		93 abc	97 a	
	Methylated Seed Oil	0.75	qt/a	MidPost			99 a	
	UAN 28%	1.5	qt/a	MidPost				
13	Option	0.5	oz/a	MidPost		87 bc	94 a	
	Permit	0.5	oz/a	MidPost			99 a	
	Methylated Seed Oil	0.75	qt/a	MidPost				
	UAN 28%	1.5	qt/a	MidPost				
14	Accent SP	0.5	oz/a	MidPost		88 abc	97 a	
	Crop Oil Conc	1	qt/a	MidPost			99 a	
	UAN 28%	2	qt/a	MidPost				
15	Atrazine	1.6	qt/a	XtrEPost	0 b	20 d	10 c	
	Crop Oil Concentrat	1	qt/a	XtrEPost			3 c	
16	Bicep II Magnum	2.1	qt/a	XtrEPost	55 a	27 d	18 b	
	Crop Oil Concentrat	1	qt/a	XtrEPost			8 b	
LSD (P=.05)					11.3	7.1	6.1	4.2
CV					27.27	5.47	4.57	3.11

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Postemergence Programs for Glyphosate-Tolerant Corn

Trial ID: CN FMC Bayr Post 03

Study Director:

Location: Ashland Otto East

Investigator: David L Regehr

Pest Type	W Weed	W Weed	W Weed	W Weed				
Pest Code	HELAN	HELAN	HELAN	HELAN				
Crop Code								
BBCH Scale								
Rating Date	11/Jun/2003	24/Jun/2003	7/Jul/2003	13/Aug/2003				
Rating Data Type	CONTRO	CONTRO	CONTRO	CONTRO				
Days After Last Applic.	1	14	28	64				
Trt No.	Treatment Name	Other Rate	Other Rate Unit	Growth Stage	7	11	18	24
1	Aim	0.5	fl oz/a	MidPost		96 a	98 a	99 a
	RU WeatherMax	13	fl oz/a	MidPost				
	Ammonium Sulfate	12	lb/100 gal	MidPost				
2	Aim	0.5	fl oz/a	MidPost		97 a	99 a	99 a
	RU WeatherMax	18	fl oz/a	MidPost				
	Ammonium Sulfate	12	lb/100 gal	MidPost				
3	RU WeatherMax	13	fl oz/a	MidPost		99 a	99 a	99 a
	Ammonium Sulfate	12	lb/100 gal	MidPost				
4	RU WeatherMax	18	fl oz/a	MidPost		98 a	99 a	99 a
	Ammonium Sulfate	12	lb/100 gal	MidPost				
5	Atrazine	2	qt/a	MidPost		94 a	99 a	99 a
	RU WeatherMax	18	fl oz/a	MidPost				
	Ammonium Sulfate	12	lb/100 gal	MidPost				
6	Untreated check				0 b	0 d	0 c	0 c
7	Option	0.5	oz/a	MidPost		80 b	93 a	99 a
	Methylated Seed Oil	0.75	qt/a	MidPost				
	UAN 28%	1.5	qt/a	MidPost				
8	Option	1	oz/a	MidPost		89 a	95 a	99 a
	Methylated Seed Oil	0.75	qt/a	MidPost				
	UAN 28%	1.5	qt/a	MidPost				
9	Option	1.5	oz/a	MidPost		89 a	96 a	99 a
	Methylated Seed Oil	0.75	qt/a	MidPost				
	UAN 28%	1.5	qt/a	MidPost				
10	Equip	0.5	oz/a	MidPost		91 a	98 a	99 a
	Methylated Seed Oil	0.75	qt/a	MidPost				
	UAN 28%	1.5	qt/a	MidPost				
11	Equip	1	oz/a	MidPost		96 a	98 a	99 a
	Methylated Seed Oil	0.75	qt/a	MidPost				
	UAN 28%	1.5	qt/a	MidPost				
12	Equip	1.5	oz/a	MidPost		95 a	99 a	99 a
	Methylated Seed Oil	0.75	qt/a	MidPost				
	UAN 28%	1.5	qt/a	MidPost				
13	Option	0.5	oz/a	MidPost		95 a	99 a	99 a
	Permit	0.5	oz/a	MidPost				
	Methylated Seed Oil	0.75	qt/a	MidPost				
	UAN 28%	1.5	qt/a	MidPost				
14	Accent SP	0.5	oz/a	MidPost		57 c	73 b	88 b
	Crop Oil Conc	1	qt/a	MidPost				
	UAN 28%	2	qt/a	MidPost				
15	Atrazine	1.6	qt/a	XtrEPost	99 a	99 a	99 a	99 a
	Crop Oil Concentrat	1	qt/a	XtrEPost				
16	Bicep II Magnum	2.1	qt/a	XtrEPost	99 a	99 a	99 a	99 a
	Crop Oil Concentrat	1	qt/a	XtrEPost				
LSD (P=.05)					0.0	6.1	6.6	5.1
CV					0.0	4.23	4.39	3.29

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.