

PRE, E-Post and Mid-Post Sequential Programs for Field Corn

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

Table with 2 columns: Crop Description, Corn. Rows include: Crop 1: ZEAMX Zea mays, Variety: Asgrow RX718RR, BBCH Scale: BCOR, Planting Date: 12/May/2003, Planting Method: White 6700, Rate, Unit: 23000 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: 19/May/2003

Table with 2 columns: Pest Description, various pest details. Rows include: Pest 1 Type: W Code: ABUTH Abutilon theophrasti, Common Name: Velvetleaf, Description: planted row; Pest 2 Type: W Code: HELAN Helianthus annuus, Common Name: Common sunflower, Description: row of oil-seed sunflower; Pest 3 Type: W Code: IPOHE Ipomoea hederacea, Common Name: Morningglory, ivyleaf, Description: planted row; Pest 4 Type: W Code: SORBI Sorghum bicolor, Common Name: rox orange forage sorghum, Description: planted row, shattercane mimic; Pest 5 Type: W Code: AMAPA Amaranthus palmeri, Common Name: Amaranth, Palmer, Description: broadcast seeded; Pest 6 Type: W Code: DIGSA Digitaria sanguinalis, Common Name: Crabgrass, large, Description: broadcast seeded

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:

Table with 3 columns: Previous Crops, Previous Pesticides, Year. Row 1: 1. grain sorghum, empty, 2002

Field Prep./Maintenance:
Fall chisel; spring disk; spring field cultivate

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

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## Application Description

	A	B	C
Application Date:	12/May/2003	27/May/2003	11/Jun/2003
Time of Day:	5:15 PM	12:00 PM	8:30 AM
Application Method:	BRDCST	BRDCST	BRDCST
Application Timing:	PRE	EP	MP
Application Placement:	SOIL	FOLIAR	FOLIAR
Applied By:	J. MILLER	J. MILLER	C. MINIHAN
Air Temperature, Unit:	79 F	78 F	72 F
% Relative Humidity:	31	25	70
Wind Velocity, Unit:	9 SE	7 SW	3 NE
Dew Presence (Y/N):	N	N	N
Water Hardness:	City H20	City H20	City H20
Soil Temperature, Unit:	65 F		67 F
Soil Moisture:	MOIST	ADEQUATE	ADEQUATE
% Cloud Cover:	5	0	20

## Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH	BBCH	BBCH
Stage Majority, Percent:		1 LF 100	4LF 3 CL 100
Height, Unit:		3 IN	15 IN

## Pest Stage At Each Application

	A	B	C
Pest 1 Code, Disc., Scale:	ABUTH W	ABUTH W	ABUTH W
Stage Majority, Percent:		1 LF	5 LF
Height, Unit:		1 IN	8 IN
Pest 2 Code, Disc., Scale:	HELAN W	HELAN W	HELAN W
Stage Majority, Percent:		2 LF	8 LF
Height, Unit:		2 IN	16 IN
Pest 3 Code, Disc., Scale:	IPOHE W	IPOHE W	IPOHE W
Stage Majority, Percent:		COT	6 lf
Height, Unit:		2 IN	6 IN
Pest 4 Code, Disc., Scale:	SORBI W	SORBI W	SORBI W
Stage Majority, Percent:		1 LF	4 lf
Height, Unit:		1 IN	6 IN
Pest 5 Code, Disc., Scale:	AMAPA W	AMAPA W	AMAPA W
Stage Majority, Percent:		4 lf	
Height, Unit:		1 IN	8 IN
Pest 6 Code, Disc., Scale:	DIGSA W	DIGSA W	DIGSA W
Stage Majority, Percent:		2-3 lf	tiller
Height, Unit:		1 IN	3 IN

## Application Equipment

	A	B	C
Appl. Equipment:	TRACTOR	TRACTOR	TRACTOR
Operating Pressure:	20	20	20
Pressure Unit:	PSI	PSI	PSI
Nozzle Type:	TURBO TEE	TURBO TEE	TURBO TEE
Nozzle Size:	11003	11003	11003
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN
Boom Length, Unit:	6.67 FT	6.67 FT	6.67 FT
Boom Height, Unit:	17 IN	20 IN	31 IN
Ground Speed, Unit:	4.1 MPH	4.1 MPH	4.1 MPH
Carrier:	Water	Water	Water
Spray Volume:	15	15	15
Volume Unit:	GAL/AC	GAL/AC	GAL/AC
Propellant:	Comp. Air	Comp. Air	Comp. Air

## Trial Comments

This experiment was planted to glyphosate-tolerant field corn. Postemerge Liberty treatments were included to evaluate their weed control potential. Corn in Liberty plots was mostly destroyed by one application, and completely destroyed by two applications, of Liberty.

The PHYGEN data columns refer to "general crop phytotoxicity." There was distinct stunting, visible most of the season, in the Steadfast plus atrazine treatment. Some plots with Distinct plus either Option or Equip had corn with leaning stalks that goose-necked back up, as well as minor stunting, crinkling at leaf collars, and yellow flash.

Precipitation was adequate for activation of preemerge herbicides. All preemerge treatments gave excellent control of large crabgrass (DIGSA). One-shot applications of Steadfast with atrazine, Option with Distinct, and WeatherMax with rimsulfuron, gave fair crabgrass control. Postemerge Liberty did not.

Palmer amaranth (AMAPA) control was excellent for both one-pass and two-pass treatments, with the exception of the Liberty treatments and the WeatherMax treatment. Rimsulfuron plus WeatherMax appeared to give better control than WeatherMax alone.

Ivyleaf morningglory (IPOHE) control was very good to excellent when treatments included enough atrazine. One half pound atrazine was not sufficient. WeatherMax did not kill morningglory. By the July and August ratings, morningglory in glyphosate plots was waist to chest high, and in the untreated check it was high in the corn canopy.

Velvetleaf (ABUTH) control was generally very good, but numerous plots had some surviving plants at the late ratings. Steadfast with atrazine gave less control than most other treatments.

Many preemerge treatments gave very good control of rox orange forage sorghum (SORBI). These included treatments containing isoxaflutole (Balance Pro and Epic), and treatments with flufenacet (Define). Early postemerge Liberty severely injured rox orange, but did not control it in the long run. Most postemerge treatments in the experiment were designed for shattercane control, and gave excellent control of rox orange.

Sunflower (HELAN) control was not satisfactory with preemerge treatments such as Balance Pro with atrazine or Degree Xtra, although Epic with atrazine gave excellent control. Early postemerge Liberty gave excellent control. Sunflower was 16 inches tall by mid-postemerge applications, yet treatments such as Option or Equip with Distinct, and treatments with Callisto and atrazine, gave excellent control.



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Pest Type				ZEAMX	ZEAMX	ZEAMX	ZEAMX	
Pest Code				BCOR	BCOR	BCOR	BCOR	
Crop Code				9/Jun/2003	25/Jun/2003	9/Jul/2003	26/Aug/2003	
BBCH Scale				PHYGEN	PHYGEN	PHYGEN	PHYGEN	
Rating Date				13	14	29	76	
Rating Data Type								
Days After Last Applic.								
Trt No.	Treatment Name	Other Rate	Other Rate Unit	Growth Stage				
					1	8	15	22
14	Cinch ATZ	2 pt/a		Preemerg	0 c	0 e	0 e	0 d
	Steadfast	0.75 oz/a		MidPost				
	Callisto	2 oz/a		MidPost				
	Atrazine	0.75 qt/a		MidPost				
	Crop Oil Conc	1 % v/v		MidPost				
	Ammonium Sulfate	3 lb/a		MidPost				
15	Cinch ATZ	2 pt/a		Preemerg	0 c	5 e	3 e	0 d
	Steadfast	0.75 oz/a		MidPost				
	Distinct	4 oz/a		MidPost				
	Crop Oil Conc	1 % v/v		MidPost				
	Ammonium Sulfate	3 lb/a		MidPost				
16	Cinch ATZ	2 pt/a		Preemerg	0 c	0 e	0 e	0 d
	Rimsulfuron	0.75 oz/a		MidPost				
	RU WeatherMax	26 fl oz/a		MidPost				
	Ammonium Sulfate	12 lb/100 gal		MidPost				
17	Rimsulfuron	0.75 oz/a		ErlyPost	1 c	1 e	1 e	0 d
	RU WeatherMax	26 fl oz/a		ErlyPost				
	Ammonium Sulfate	12 lb/100 gal		ErlyPost				
18	RU WeatherMax	26 fl oz/a		ErlyPost	0 c	0 e	0 e	0 d
	Ammonium Sulfate	12 lb/100 gal		ErlyPost				
19	Untreated check				0 c	0 e	0 e	0 d
20	Steadfast	0.75 oz/a		ErlyPost	12 b	10 d	4 e	0 d
	Atrazine	0.75 qt/a		ErlyPost				
	Crop Oil Conc	1 % v/v		ErlyPost				
21	Cinch ATZ	2 pt/a		Preemerg	0 c	2 e	1 e	0 d
	Steadfast	0.75 oz/a		MidPost				
	Atrazine	0.75 qt/a		MidPost				
	Crop Oil Conc	1 % v/v		MidPost				
	Ammonium Sulfate	3 lb/a		MidPost				
22	Cinch ATZ	2 pt/a		Preemerg	0 c	2 e	0 e	0 d
	Steadfast	0.75 oz/a		MidPost				
	Callisto	2 oz/a		MidPost				
	Crop Oil Conc	1 % v/v		MidPost				
	Ammonium Sulfate	3 lb/a		MidPost				
LSD (P=.05)					1.8	3.3	3.0	2.6
CV					11.71	9.31	9.27	7.88

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.

## PRE, E-Post and Mid-Post Sequential Programs for Field Corn

Trial ID: CN Bayr DuPnt 03  
 Location: Ashland Otto East

Study Director:  
 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				9/Jun/2003	25/Jun/2003	9/Jul/2003	26/Aug/2003	
Rating Data Type				CONTRO	CONTRO	CONTRO	CONTRO	
Days After Last Applic.				13	14	29	76	
Trt No.	Treatment Name	Other Rate	Other Rate Unit	Growth Stage				
					2	9	16	23
1	Atrazine	1	qt/a	Preemerg	98 a	95 a	87 b	
	Balance Pro	1.5	fl oz/a	Preemerg				
	Liberty	32	fl oz/a	MidPost				
	Atrazine	0.5	qt/a	MidPost				
	Ammonium Sulfate	3	lb/a	MidPost				
2	Atrazine	1	qt/a	Preemerg	99 a	96 a	89 ab	96 a
	Balance Pro	1.5	fl oz/a	Preemerg				
	Option	1.5	oz/a	MidPost				
	UAN 28%	1.5	qt/a	MidPost				
	Methylated Seed Oil	0.75	qt/a	MidPost				
3	Epic	5	oz/a	PREPRE	99 a	99 a	96 ab	
	Liberty	32	fl oz/a	MidPost				
	Atrazine	0.5	qt/a	MidPost				
	Ammonium Sulfate	3	lb/a	MidPost				
4	Balance Pro	2.25	fl oz/a	Preemerg	98 a	96 a	91 ab	93 a
	Atrazine	1	qt/a	Preemerg				
5	Balance Pro	2.25	fl oz/a	Preemerg	99 a	99 a	99 ab	99 a
	Define	12	oz/a	Preemerg				
	Atrazine	1	qt/a	Preemerg				
6	Define	12	oz/a	Preemerg	99 a	99 a	98 ab	
	Liberty	32	fl oz/a	MidPost				
	Atrazine	0.5	qt/a	MidPost				
	Ammonium Sulfate	3	lb/a	MidPost				
7	Define	12	oz/a	Preemerg	99 a	99 a	99 ab	99 a
	Option	1.5	oz/a	MidPost				
	Distinct	4	oz/a	MidPost				
	UAN 28%	1.5	qt/a	MidPost				
	Methylated Seed Oil	0.75	qt/a	MidPost				
8	Liberty	32	fl oz/a	ErlyPost	80 cd	43 e	10 f	22 d
	Atrazine	0.5	qt/a	ErlyPost				
	Ammonium Sulfate	3	lb/a	ErlyPost				
9	Define	20	oz/a	Preemerg	99 a	99 a	99 ab	99 a
	Atrazine	1.5	qt/a	Preemerg				
	Equip	1	oz/a	MidPost				
	UAN 28%	1.5	qt/a	MidPost				
	Methylated Seed Oil	0.75	qt/a	MidPost				
10	Balance Pro	1.5	fl oz/a	Preemerg	99 a	99 a	99 ab	99 a
	Degree Xtra	3	qt/a	Preemerg				
11	Option	1.5	oz/a	MidPost		78 c	71 c	72 c
	Distinct	4	oz/a	MidPost				
	UAN 28%	1.5	qt/a	MidPost				
	Methylated Seed Oil	0.75	qt/a	MidPost				
12	Epic	10	oz/a	Preemerg	99 a	99 a	99 ab	99 a
	Atrazine	1	qt/a	Preemerg				
13	Liberty	28	fl oz/a	ErlyPost	78 d	87 b	38 e	
	Ammonium Sulfate	3	lb/a	ErlyPost				
	Liberty	28	fl oz/a	MidPost				
	Ammonium Sulfate	3	lb/a	MidPost				
14	Cinch ATZ	2	pt/a	Preemerg	99 a	99 a	99 ab	99 a
	Steadfast	0.75	oz/a	MidPost				
	Callisto	2	oz/a	MidPost				
	Atrazine	0.75	qt/a	MidPost				
	Crop Oil Conc	1	% v/v	MidPost				
	Ammonium Sulfate	3	lb/a	MidPost				

## Kansas State University

Pest Type	W Weed	W Weed	W Weed	W Weed				
Pest Code	DIGSA	DIGSA	DIGSA	DIGSA				
Crop Code								
BBCH Scale								
Rating Date	9/Jun/2003	25/Jun/2003	9/Jul/2003	26/Aug/2003				
Rating Data Type	CONTRO	CONTRO	CONTRO	CONTRO				
Days After Last Applic.	13	14	29	76				
Trt No.	Treatment Name	Other Rate	Other Rate Unit	Growth Stage	2	9	16	23
15	Cinch ATZ	2	pt/a	Preemerg	99 a	99 a	99 ab	99 a
	Steadfast	0.75	oz/a	MidPost				
	Distinct	4	oz/a	MidPost				
	Crop Oil Conc	1	% v/v	MidPost				
	Ammonium Sulfate	3	lb/a	MidPost				
16	Cinch ATZ	2	pt/a	Preemerg	99 a	99 a	98 ab	99 a
	Rimsulfuron	0.75	oz/a	MidPost				
	RU WeatherMax	26	fl oz/a	MidPost				
	Ammonium Sulfate	12	lb/100 gal	MidPost				
17	Rimsulfuron	0.75	oz/a	ErlyPost	87 bc	67 d	70 c	80 b
	RU WeatherMax	26	fl oz/a	ErlyPost				
	Ammonium Sulfate	12	lb/100 gal	ErlyPost				
18	RU WeatherMax	26	fl oz/a	ErlyPost	83 cd	43 e	47 d	69 c
	Ammonium Sulfate	12	lb/100 gal	ErlyPost				
19	Untreated check				0 e	0 f	0 g	0 e
20	Steadfast	0.75	oz/a	ErlyPost	92 ab	87 b	77 c	83 b
	Atrazine	0.75	qt/a	ErlyPost				
	Crop Oil Conc	1	% v/v	ErlyPost				
21	Cinch ATZ	2	pt/a	Preemerg	100 a	100 a	100 a	99 a
	Steadfast	0.75	oz/a	MidPost				
	Atrazine	0.75	qt/a	MidPost				
	Crop Oil Conc	1	% v/v	MidPost				
	Ammonium Sulfate	3	lb/a	MidPost				
22	Cinch ATZ	2	pt/a	Preemerg	99 a	99 a	99 ab	99 a
	Steadfast	0.75	oz/a	MidPost				
	Callisto	2	oz/a	MidPost				
	Crop Oil Conc	1	% v/v	MidPost				
	Ammonium Sulfate	3	lb/a	MidPost				
LSD (P=.05)					6.0	5.5	7.1	3.5
CV					4.02	3.89	5.39	2.51

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.

## PRE, E-Post and Mid-Post Sequential Programs for Field Corn

Trial ID: CN Bayr DuPnt 03  
Location: Ashland Otto East

Study Director:  
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					9/Jun/2003	25/Jun/2003	9/Jul/2003	26/Aug/2003
Rating Data Type					CONTRO	CONTRO	CONTRO	CONTRO
Days After Last Applic.					13	14	29	76
Trt No.	Treatment Name	Other Rate	Other Rate Unit	Growth Stage				
					3	10	17	24
1	Atrazine	1	qt/a	Preemerg	99 a	99 a	98 a	
	Balance Pro	1.5	fl oz/a	Preemerg				
	Liberty	32	fl oz/a	MidPost				
	Atrazine	0.5	qt/a	MidPost				
	Ammonium Sulfate	3	lb/a	MidPost				
2	Atrazine	1	qt/a	Preemerg	99 a	99 a	99 a	98 a
	Balance Pro	1.5	fl oz/a	Preemerg				
	Option	1.5	oz/a	MidPost				
	UAN 28%	1.5	qt/a	MidPost				
	Methylated Seed Oil	0.75	qt/a	MidPost				
3	Epic	5	oz/a	PREPRE	99 a	99 a	98 a	
	Liberty	32	fl oz/a	MidPost				
	Atrazine	0.5	qt/a	MidPost				
	Ammonium Sulfate	3	lb/a	MidPost				
4	Balance Pro	2.25	fl oz/a	Preemerg	99 a	99 a	99 a	99 a
	Atrazine	1	qt/a	Preemerg				
5	Balance Pro	2.25	fl oz/a	Preemerg	99 a	99 a	99 a	99 a
	Define	12	oz/a	Preemerg				
	Atrazine	1	qt/a	Preemerg				
6	Define	12	oz/a	Preemerg	98 a	99 a	99 a	
	Liberty	32	fl oz/a	MidPost				
	Atrazine	0.5	qt/a	MidPost				
	Ammonium Sulfate	3	lb/a	MidPost				
7	Define	12	oz/a	Preemerg	99 a	99 a	99 a	99 a
	Option	1.5	oz/a	MidPost				
	Distinct	4	oz/a	MidPost				
	UAN 28%	1.5	qt/a	MidPost				
	Methylated Seed Oil	0.75	qt/a	MidPost				
8	Liberty	32	fl oz/a	ErlyPost	98 a	96 a	78 ab	88 b
	Atrazine	0.5	qt/a	ErlyPost				
	Ammonium Sulfate	3	lb/a	ErlyPost				
9	Define	20	oz/a	Preemerg	99 a	99 a	99 a	99 a
	Atrazine	1.5	qt/a	Preemerg				
	Equip	1	oz/a	MidPost				
	UAN 28%	1.5	qt/a	MidPost				
	Methylated Seed Oil	0.75	qt/a	MidPost				
10	Balance Pro	1.5	fl oz/a	Preemerg	99 a	99 a	99 a	99 a
	Degree Xtra	3	qt/a	Preemerg				
11	Option	1.5	oz/a	MidPost		95 a	99 a	99 a
	Distinct	4	oz/a	MidPost				
	UAN 28%	1.5	qt/a	MidPost				
	Methylated Seed Oil	0.75	qt/a	MidPost				
12	Epic	10	oz/a	Preemerg	99 a	99 a	99 a	99 a
	Atrazine	1	qt/a	Preemerg				
13	Liberty	28	fl oz/a	ErlyPost	86 b	94 a	70 bc	
	Ammonium Sulfate	3	lb/a	ErlyPost				
	Liberty	28	fl oz/a	MidPost				
	Ammonium Sulfate	3	lb/a	MidPost				
14	Cinch ATZ	2	pt/a	Preemerg	99 a	99 a	99 a	99 a
	Steadfast	0.75	oz/a	MidPost				
	Callisto	2	oz/a	MidPost				
	Atrazine	0.75	qt/a	MidPost				
	Crop Oil Conc	1	% v/v	MidPost				
	Ammonium Sulfate	3	lb/a	MidPost				



## Kansas State University

Pest Type	W Weed	W Weed	W Weed	W Weed				
Pest Code	AMAPA	AMAPA	AMAPA	AMAPA				
Crop Code								
BBCH Scale								
Rating Date	9/Jun/2003	25/Jun/2003	9/Jul/2003	26/Aug/2003				
Rating Data Type	CONTRO	CONTRO	CONTRO	CONTRO				
Days After Last Applic.	13	14	29	76				
Trt No.	Treatment Name	Other Rate	Other Rate Unit	Growth Stage	3	10	17	24
15	Cinch ATZ	2	pt/a	Preemerg	99 a	99 a	99 a	96 a
	Steadfast	0.75	oz/a	MidPost				
	Distinct	4	oz/a	MidPost				
	Crop Oil Conc	1	% v/v	MidPost				
	Ammonium Sulfate	3	lb/a	MidPost				
16	Cinch ATZ	2	pt/a	Preemerg	99 a	99 a	99 a	99 a
	Rimsulfuron	0.75	oz/a	MidPost				
	RU WeatherMax	26	fl oz/a	MidPost				
	Ammonium Sulfate	12	lb/100 gal	MidPost				
17	Rimsulfuron	0.75	oz/a	ErlyPost	99 a	90 b	80 ab	92 ab
	RU WeatherMax	26	fl oz/a	ErlyPost				
	Ammonium Sulfate	12	lb/100 gal	ErlyPost				
18	RU WeatherMax	26	fl oz/a	ErlyPost	95 a	62 c	55 c	77 c
	Ammonium Sulfate	12	lb/100 gal	ErlyPost				
19	Untreated check				0 c	0 d	0 d	0 d
20	Steadfast	0.75	oz/a	ErlyPost	99 a	99 a	99 a	99 a
	Atrazine	0.75	qt/a	ErlyPost				
	Crop Oil Conc	1	% v/v	ErlyPost				
21	Cinch ATZ	2	pt/a	Preemerg	99 a	99 a	99 a	99 a
	Steadfast	0.75	oz/a	MidPost				
	Atrazine	0.75	qt/a	MidPost				
	Crop Oil Conc	1	% v/v	MidPost				
	Ammonium Sulfate	3	lb/a	MidPost				
22	Cinch ATZ	2	pt/a	Preemerg	99 a	99 a	99 a	99 a
	Steadfast	0.75	oz/a	MidPost				
	Callisto	2	oz/a	MidPost				
	Crop Oil Conc	1	% v/v	MidPost				
	Ammonium Sulfate	3	lb/a	MidPost				
LSD (P=.05)					4.5	3.8	15.4	4.6
CV					2.93	2.52	10.47	3.05

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.

## PRE, E-Post and Mid-Post Sequential Programs for Field Corn

Trial ID: CN Bayr DuPnt 03  
 Location: Ashland Otto East

Study Director:  
 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				9/Jun/2003	25/Jun/2003	9/Jul/2003	26/Aug/2003	
Rating Data Type				CONTRO	CONTRO	CONTRO	CONTRO	
Days After Last Applic.				13	14	29	76	
Trt No.	Treatment Name	Other Rate	Other Rate Unit	Growth Stage				
					4	11	18	25
1	Atrazine	1	qt/a	Preemerg	93 a	99 a	99 a	
	Balance Pro	1.5	fl oz/a	Preemerg				
	Liberty	32	fl oz/a	MidPost				
	Atrazine	0.5	qt/a	MidPost				
	Ammonium Sulfate	3	lb/a	MidPost				
2	Atrazine	1	qt/a	Preemerg	96 a	98 a	99 a	96 a
	Balance Pro	1.5	fl oz/a	Preemerg				
	Option	1.5	oz/a	MidPost				
	UAN 28%	1.5	qt/a	MidPost				
	Methylated Seed Oil	0.75	qt/a	MidPost				
3	Epic	5	oz/a	PREPRE	37 b	99 a	98 a	
	Liberty	32	fl oz/a	MidPost				
	Atrazine	0.5	qt/a	MidPost				
	Ammonium Sulfate	3	lb/a	MidPost				
4	Balance Pro	2.25	fl oz/a	Preemerg	96 a	91 a	87 ab	96 a
	Atrazine	1	qt/a	Preemerg				
5	Balance Pro	2.25	fl oz/a	Preemerg	98 a	94 a	99 a	99 a
	Define	12	oz/a	Preemerg				
	Atrazine	1	qt/a	Preemerg				
6	Define	12	oz/a	Preemerg	0 c	92 a	78 abc	
	Liberty	32	fl oz/a	MidPost				
	Atrazine	0.5	qt/a	MidPost				
	Ammonium Sulfate	3	lb/a	MidPost				
7	Define	12	oz/a	Preemerg	28 b	90 a	96 a	99 a
	Option	1.5	oz/a	MidPost				
	Distinct	4	oz/a	MidPost				
	UAN 28%	1.5	qt/a	MidPost				
	Methylated Seed Oil	0.75	qt/a	MidPost				
8	Liberty	32	fl oz/a	ErlyPost	96 a	89 a	78 abc	37 d
	Atrazine	0.5	qt/a	ErlyPost				
	Ammonium Sulfate	3	lb/a	ErlyPost				
9	Define	20	oz/a	Preemerg	99 a	99 a	99 a	99 a
	Atrazine	1.5	qt/a	Preemerg				
	Equip	1	oz/a	MidPost				
	UAN 28%	1.5	qt/a	MidPost				
	Methylated Seed Oil	0.75	qt/a	MidPost				
10	Balance Pro	1.5	fl oz/a	Preemerg	98 a	98 a	99 a	99 a
	Degree Xtra	3	qt/a	Preemerg				
11	Option	1.5	oz/a	MidPost		89 a	91 a	98 a
	Distinct	4	oz/a	MidPost				
	UAN 28%	1.5	qt/a	MidPost				
	Methylated Seed Oil	0.75	qt/a	MidPost				
12	Epic	10	oz/a	Preemerg	99 a	99 a	99 a	99 a
	Atrazine	1	qt/a	Preemerg				
13	Liberty	28	fl oz/a	ErlyPost	82 a	94 a	70 bc	
	Ammonium Sulfate	3	lb/a	ErlyPost				
	Liberty	28	fl oz/a	MidPost				
	Ammonium Sulfate	3	lb/a	MidPost				
14	Cinch ATZ	2	pt/a	Preemerg	94 a	99 a	99 a	99 a
	Steadfast	0.75	oz/a	MidPost				
	Callisto	2	oz/a	MidPost				
	Atrazine	0.75	qt/a	MidPost				
	Crop Oil Conc	1	% v/v	MidPost				
	Ammonium Sulfate	3	lb/a	MidPost				

## Kansas State University

Pest Type	W Weed	W Weed	W Weed	W Weed				
Pest Code	IPHOE	IPHOE	IPHOE	IPHOE				
Crop Code								
BBCH Scale								
Rating Date	9/Jun/2003	25/Jun/2003	9/Jul/2003	26/Aug/2003				
Rating Data Type	CONTRO	CONTRO	CONTRO	CONTRO				
Days After Last Applic.	13	14	29	76				
Trt No.	Treatment Name	Other Rate	Other Rate Unit	Growth Stage	4	11	18	25
15	Cinch ATZ	2	pt/a	Preemerg	75 a	96 a	99 a	99 a
	Steadfast	0.75	oz/a	MidPost				
	Distinct	4	oz/a	MidPost				
	Crop Oil Conc	1	% v/v	MidPost				
	Ammonium Sulfate	3	lb/a	MidPost				
16	Cinch ATZ	2	pt/a	Preemerg	82 a	92 a	90 a	99 a
	Rimsulfuron	0.75	oz/a	MidPost				
	RU WeatherMax	26	fl oz/a	MidPost				
	Ammonium Sulfate	12	lb/100 gal	MidPost				
17	Rimsulfuron	0.75	oz/a	ErlyPost	93 a	68 b	63 c	57 c
	RU WeatherMax	26	fl oz/a	ErlyPost				
	Ammonium Sulfate	12	lb/100 gal	ErlyPost				
18	RU WeatherMax	26	fl oz/a	ErlyPost	90 a	68 b	69 bc	73 b
	Ammonium Sulfate	12	lb/100 gal	ErlyPost				
19	Untreated check				0 c	0 c	0 d	0 e
20	Steadfast	0.75	oz/a	ErlyPost	95 a	85 a	93 a	99 a
	Atrazine	0.75	qt/a	ErlyPost				
	Crop Oil Conc	1	% v/v	ErlyPost				
21	Cinch ATZ	2	pt/a	Preemerg	75 a	98 a	98 a	98 a
	Steadfast	0.75	oz/a	MidPost				
	Atrazine	0.75	qt/a	MidPost				
	Crop Oil Conc	1	% v/v	MidPost				
	Ammonium Sulfate	3	lb/a	MidPost				
22	Cinch ATZ	2	pt/a	Preemerg	93 a	98 a	98 a	99 a
	Steadfast	0.75	oz/a	MidPost				
	Callisto	2	oz/a	MidPost				
	Crop Oil Conc	1	% v/v	MidPost				
	Ammonium Sulfate	3	lb/a	MidPost				
LSD (P=.05)					22.3	8.0	13.5	12.1
CV					17.57	5.51	9.43	8.48

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.

## PRE, E-Post and Mid-Post Sequential Programs for Field Corn

Trial ID: CN Bayr DuPnt 03  
Location: Ashland Otto EastStudy Director:  
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				9/Jun/2003	25/Jun/2003	9/Jul/2003	26/Aug/2003
Rating Data Type				CONTRO	CONTRO	CONTRO	CONTRO
Days After Last Applic.				13	14	29	76
Trt No.	Treatment Name	Other Rate	Other Rate Unit	Growth Stage			
					5	12	19
1	Atrazine	1	qt/a	Preemerg	99 a	99 a	98 a
	Balance Pro	1.5	fl oz/a	Preemerg			
	Liberty	32	fl oz/a	MidPost			
	Atrazine	0.5	qt/a	MidPost			
	Ammonium Sulfate	3	lb/a	MidPost			
2	Atrazine	1	qt/a	Preemerg	99 a	99 a	99 a
	Balance Pro	1.5	fl oz/a	Preemerg			
	Option	1.5	oz/a	MidPost			
	UAN 28%	1.5	qt/a	MidPost			
	Methylated Seed Oil	0.75	qt/a	MidPost			
3	Epic	5	oz/a	PREPRE	98 a	99 a	98 a
	Liberty	32	fl oz/a	MidPost			
	Atrazine	0.5	qt/a	MidPost			
	Ammonium Sulfate	3	lb/a	MidPost			
4	Balance Pro	2.25	fl oz/a	Preemerg	99 a	99 a	99 a
	Atrazine	1	qt/a	Preemerg			
5	Balance Pro	2.25	fl oz/a	Preemerg	99 a	99 a	99 a
	Define	12	oz/a	Preemerg			
	Atrazine	1	qt/a	Preemerg			
6	Define	12	oz/a	Preemerg	0 c	95 a	84 a
	Liberty	32	fl oz/a	MidPost			
	Atrazine	0.5	qt/a	MidPost			
	Ammonium Sulfate	3	lb/a	MidPost			
7	Define	12	oz/a	Preemerg	23 b	90 a	95 a
	Option	1.5	oz/a	MidPost			
	Distinct	4	oz/a	MidPost			
	UAN 28%	1.5	qt/a	MidPost			
	Methylated Seed Oil	0.75	qt/a	MidPost			
8	Liberty	32	fl oz/a	ErlyPost	98 a	98 a	96 a
	Atrazine	0.5	qt/a	ErlyPost			
	Ammonium Sulfate	3	lb/a	ErlyPost			
9	Define	20	oz/a	Preemerg	99 a	99 a	99 a
	Atrazine	1.5	qt/a	Preemerg			
	Equip	1	oz/a	MidPost			
	UAN 28%	1.5	qt/a	MidPost			
	Methylated Seed Oil	0.75	qt/a	MidPost			
10	Balance Pro	1.5	fl oz/a	Preemerg	99 a	99 a	99 a
	Degree Xtra	3	qt/a	Preemerg			
11	Option	1.5	oz/a	MidPost		90 a	97 a
	Distinct	4	oz/a	MidPost			
	UAN 28%	1.5	qt/a	MidPost			
	Methylated Seed Oil	0.75	qt/a	MidPost			
12	Epic	10	oz/a	Preemerg	99 a	99 a	99 a
	Atrazine	1	qt/a	Preemerg			
13	Liberty	28	fl oz/a	ErlyPost	98 a	99 a	98 a
	Ammonium Sulfate	3	lb/a	ErlyPost			
	Liberty	28	fl oz/a	MidPost			
	Ammonium Sulfate	3	lb/a	MidPost			
14	Cinch ATZ	2	pt/a	Preemerg	96 a	99 a	99 a
	Steadfast	0.75	oz/a	MidPost			
	Callisto	2	oz/a	MidPost			
	Atrazine	0.75	qt/a	MidPost			
	Crop Oil Conc	1	% v/v	MidPost			
	Ammonium Sulfate	3	lb/a	MidPost			

## Kansas State University

Pest Type	W Weed	W Weed	W Weed	W Weed				
Pest Code	ABUTH	ABUTH	ABUTH	ABUTH				
Crop Code								
BBCH Scale								
Rating Date	9/Jun/2003	25/Jun/2003	9/Jul/2003	26/Aug/2003				
Rating Data Type	CONTRO	CONTRO	CONTRO	CONTRO				
Days After Last Applic.	13	14	29	76				
Trt No.	Treatment Name	Other Rate	Other Rate Unit	Growth Stage	5	12	19	26
15	Cinch ATZ	2	pt/a	Preemerg	95 a	99 a	99 a	99 a
	Steadfast	0.75	oz/a	MidPost				
	Distinct	4	oz/a	MidPost				
	Crop Oil Conc	1	% v/v	MidPost				
	Ammonium Sulfate	3	lb/a	MidPost				
16	Cinch ATZ	2	pt/a	Preemerg	91 a	98 a	96 a	98 a
	Rimsulfuron	0.75	oz/a	MidPost				
	RU WeatherMax	26	fl oz/a	MidPost				
	Ammonium Sulfate	12	lb/100 gal	MidPost				
17	Rimsulfuron	0.75	oz/a	ErlyPost	96 a	93 a	90 a	91 a
	RU WeatherMax	26	fl oz/a	ErlyPost				
	Ammonium Sulfate	12	lb/100 gal	ErlyPost				
18	RU WeatherMax	26	fl oz/a	ErlyPost	96 a	94 a	94 a	93 a
	Ammonium Sulfate	12	lb/100 gal	ErlyPost				
19	Untreated check				0 c	0 c	0 c	0 c
20	Steadfast	0.75	oz/a	ErlyPost	93 a	70 b	63 b	78 b
	Atrazine	0.75	qt/a	ErlyPost				
	Crop Oil Conc	1	% v/v	ErlyPost				
21	Cinch ATZ	2	pt/a	Preemerg	94 a	99 a	99 a	99 a
	Steadfast	0.75	oz/a	MidPost				
	Atrazine	0.75	qt/a	MidPost				
	Crop Oil Conc	1	% v/v	MidPost				
	Ammonium Sulfate	3	lb/a	MidPost				
22	Cinch ATZ	2	pt/a	Preemerg	95 a	99 a	99 a	99 a
	Steadfast	0.75	oz/a	MidPost				
	Callisto	2	oz/a	MidPost				
	Crop Oil Conc	1	% v/v	MidPost				
	Ammonium Sulfate	3	lb/a	MidPost				
LSD (P=.05)					15.7	6.9	10.1	7.5
CV					11.29	4.59	6.73	4.95

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.

## PRE, E-Post and Mid-Post Sequential Programs for Field Corn

Trial ID: CN Bayr DuPnt 03  
Location: Ashland Otto East

Study Director:  
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				9/Jun/2003	25/Jun/2003	9/Jul/2003	26/Aug/2003
Rating Data Type				CONTRO	CONTRO	CONTRO	CONTRO
Days After Last Applic.				13	14	29	76
Trt No.	Treatment Name	Other Rate	Other Rate Unit	Growth Stage			
					6	13	20
1	Atrazine	1	qt/a	Preemerg	98 ab	99 a	99 a
	Balance Pro	1.5	fl oz/a	Preemerg			
	Liberty	32	fl oz/a	MidPost			
	Atrazine	0.5	qt/a	MidPost			
	Ammonium Sulfate	3	lb/a	MidPost			
2	Atrazine	1	qt/a	Preemerg	92 ab	99 a	99 a
	Balance Pro	1.5	fl oz/a	Preemerg			
	Option	1.5	oz/a	MidPost			
	UAN 28%	1.5	qt/a	MidPost			
	Methylated Seed Oil	0.75	qt/a	MidPost			
3	Epic	5	oz/a	PREPRE	89 ab	99 a	99 a
	Liberty	32	fl oz/a	MidPost			
	Atrazine	0.5	qt/a	MidPost			
	Ammonium Sulfate	3	lb/a	MidPost			
4	Balance Pro	2.25	fl oz/a	Preemerg	97 ab	94 a	93 a
	Atrazine	1	qt/a	Preemerg			
5	Balance Pro	2.25	fl oz/a	Preemerg	99 a	99 a	99 a
	Define	12	oz/a	Preemerg			
	Atrazine	1	qt/a	Preemerg			
6	Define	12	oz/a	Preemerg	85 ab	97 a	98 a
	Liberty	32	fl oz/a	MidPost			
	Atrazine	0.5	qt/a	MidPost			
	Ammonium Sulfate	3	lb/a	MidPost			
7	Define	12	oz/a	Preemerg	77 b	95 a	98 a
	Option	1.5	oz/a	MidPost			
	Distinct	4	oz/a	MidPost			
	UAN 28%	1.5	qt/a	MidPost			
	Methylated Seed Oil	0.75	qt/a	MidPost			
8	Liberty	32	fl oz/a	ErlyPost	92 ab	63 b	40 b
	Atrazine	0.5	qt/a	ErlyPost			
	Ammonium Sulfate	3	lb/a	ErlyPost			
9	Define	20	oz/a	Preemerg	90 ab	99 a	99 a
	Atrazine	1.5	qt/a	Preemerg			
	Equip	1	oz/a	MidPost			
	UAN 28%	1.5	qt/a	MidPost			
	Methylated Seed Oil	0.75	qt/a	MidPost			
10	Balance Pro	1.5	fl oz/a	Preemerg	94 ab	98 a	92 a
	Degree Xtra	3	qt/a	Preemerg			
11	Option	1.5	oz/a	MidPost		90 a	98 a
	Distinct	4	oz/a	MidPost			
	UAN 28%	1.5	qt/a	MidPost			
	Methylated Seed Oil	0.75	qt/a	MidPost			
12	Epic	10	oz/a	Preemerg	99 a	99 a	99 a
	Atrazine	1	qt/a	Preemerg			
13	Liberty	28	fl oz/a	ErlyPost	88 ab	95 a	86 a
	Ammonium Sulfate	3	lb/a	ErlyPost			
	Liberty	28	fl oz/a	MidPost			
	Ammonium Sulfate	3	lb/a	MidPost			
14	Cinch ATZ	2	pt/a	Preemerg	10 c	92 a	97 a
	Steadfast	0.75	oz/a	MidPost			
	Callisto	2	oz/a	MidPost			
	Atrazine	0.75	qt/a	MidPost			
	Crop Oil Conc	1	% v/v	MidPost			
	Ammonium Sulfate	3	lb/a	MidPost			

## Kansas State University

Pest Type	W Weed	W Weed	W Weed	W Weed				
Pest Code	SORBI	SORBI	SORBI	SORBI				
Crop Code								
BBCH Scale								
Rating Date	9/Jun/2003	25/Jun/2003	9/Jul/2003	26/Aug/2003				
Rating Data Type	CONTRO	CONTRO	CONTRO	CONTRO				
Days After Last Applic.	13	14	29	76				
Trt No.	Treatment Name	Other Rate	Other Rate Unit	Growth Stage	6	13	20	27
15	Cinch ATZ	2	pt/a	Preemerg	17 c	93 a	99 a	99 a
	Steadfast	0.75	oz/a	MidPost				
	Distinct	4	oz/a	MidPost				
	Crop Oil Conc	1	% v/v	MidPost				
	Ammonium Sulfate	3	lb/a	MidPost				
16	Cinch ATZ	2	pt/a	Preemerg	10 c	98 a	99 a	99 a
	Rimsulfuron	0.75	oz/a	MidPost				
	RU WeatherMax	26	fl oz/a	MidPost				
	Ammonium Sulfate	12	lb/100 gal	MidPost				
17	Rimsulfuron	0.75	oz/a	ErlyPost	97 ab	92 a	99 a	96 a
	RU WeatherMax	26	fl oz/a	ErlyPost				
	Ammonium Sulfate	12	lb/100 gal	ErlyPost				
18	RU WeatherMax	26	fl oz/a	ErlyPost	96 ab	86 a	94 a	99 a
	Ammonium Sulfate	12	lb/100 gal	ErlyPost				
19	Untreated check				0 c	0 c	0 c	0 c
20	Steadfast	0.75	oz/a	ErlyPost	97 ab	98 a	99 a	99 a
	Atrazine	0.75	qt/a	ErlyPost				
	Crop Oil Conc	1	% v/v	ErlyPost				
21	Cinch ATZ	2	pt/a	Preemerg	16 c	96 a	100 a	99 a
	Steadfast	0.75	oz/a	MidPost				
	Atrazine	0.75	qt/a	MidPost				
	Crop Oil Conc	1	% v/v	MidPost				
	Ammonium Sulfate	3	lb/a	MidPost				
22	Cinch ATZ	2	pt/a	Preemerg	12 c	94 a	98 a	99 a
	Steadfast	0.75	oz/a	MidPost				
	Callisto	2	oz/a	MidPost				
	Crop Oil Conc	1	% v/v	MidPost				
	Ammonium Sulfate	3	lb/a	MidPost				
LSD (P=.05)					12.2	9.1	7.6	7.2
CV					10.7	6.16	5.14	4.92

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.

## PRE, E-Post and Mid-Post Sequential Programs for Field Corn

Trial ID: CN Bayr DuPnt 03  
Location: Ashland Otto EastStudy Director:  
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				9/Jun/2003	25/Jun/2003	9/Jul/2003	26/Aug/2003
Rating Data Type				CONTRO	CONTRO	CONTRO	CONTRO
Days After Last Applic.				13	14	29	76
Trt No.	Treatment Name	Other Rate	Other Rate Unit	Growth Stage			
					7	14	21
1	Atrazine	1	qt/a	Preemerg	85 a	99 a	99 a
	Balance Pro	1.5	fl oz/a	Preemerg			
	Liberty	32	fl oz/a	MidPost			
	Atrazine	0.5	qt/a	MidPost			
	Ammonium Sulfate	3	lb/a	MidPost			
2	Atrazine	1	qt/a	Preemerg	70 b	96 a	98 a
	Balance Pro	1.5	fl oz/a	Preemerg			99 a
	Option	1.5	oz/a	MidPost			
	UAN 28%	1.5	qt/a	MidPost			
	Methylated Seed Oil	0.75	qt/a	MidPost			
3	Epic	5	oz/a	PREPRE	17 cd	98 a	96 a
	Liberty	32	fl oz/a	MidPost			
	Atrazine	0.5	qt/a	MidPost			
	Ammonium Sulfate	3	lb/a	MidPost			
4	Balance Pro	2.25	fl oz/a	Preemerg	92 a	79 a	70 bc
	Atrazine	1	qt/a	Preemerg			73 a
5	Balance Pro	2.25	fl oz/a	Preemerg	96 a	95 a	91 a
	Define	12	oz/a	Preemerg			93 a
	Atrazine	1	qt/a	Preemerg			
6	Define	12	oz/a	Preemerg	0 d	95 a	95 a
	Liberty	32	fl oz/a	MidPost			
	Atrazine	0.5	qt/a	MidPost			
	Ammonium Sulfate	3	lb/a	MidPost			
7	Define	12	oz/a	Preemerg	0 d	90 a	98 a
	Option	1.5	oz/a	MidPost			99 a
	Distinct	4	oz/a	MidPost			
	UAN 28%	1.5	qt/a	MidPost			
	Methylated Seed Oil	0.75	qt/a	MidPost			
8	Liberty	32	fl oz/a	ErlyPost	99 a	99 a	99 a
	Atrazine	0.5	qt/a	ErlyPost			
	Ammonium Sulfate	3	lb/a	ErlyPost			
9	Define	20	oz/a	Preemerg	80 ab	97 a	99 a
	Atrazine	1.5	qt/a	Preemerg			99 a
	Equip	1	oz/a	MidPost			
	UAN 28%	1.5	qt/a	MidPost			
	Methylated Seed Oil	0.75	qt/a	MidPost			
10	Balance Pro	1.5	fl oz/a	Preemerg	86 a	61 b	61 c
	Degree Xtra	3	qt/a	Preemerg			57 b
11	Option	1.5	oz/a	MidPost		91 a	99 a
	Distinct	4	oz/a	MidPost			99 a
	UAN 28%	1.5	qt/a	MidPost			
	Methylated Seed Oil	0.75	qt/a	MidPost			
12	Epic	10	oz/a	Preemerg	98 a	99 a	99 a
	Atrazine	1	qt/a	Preemerg			99 a
13	Liberty	28	fl oz/a	ErlyPost	99 a	99 a	99 a
	Ammonium Sulfate	3	lb/a	ErlyPost			
	Liberty	28	fl oz/a	MidPost			
	Ammonium Sulfate	3	lb/a	MidPost			
14	Cinch ATZ	2	pt/a	Preemerg	8 d	98 a	99 a
	Steadfast	0.75	oz/a	MidPost			99 a
	Callisto	2	oz/a	MidPost			
	Atrazine	0.75	qt/a	MidPost			
	Crop Oil Conc	1	% v/v	MidPost			
	Ammonium Sulfate	3	lb/a	MidPost			



## Kansas State University

Pest Type	W Weed	W Weed	W Weed	W Weed				
Pest Code	HELAN	HELAN	HELAN	HELAN				
Crop Code								
BBCH Scale								
Rating Date	9/Jun/2003	25/Jun/2003	9/Jul/2003	26/Aug/2003				
Rating Data Type	CONTRO	CONTRO	CONTRO	CONTRO				
Days After Last Applic.	13	14	29	76				
Trt No.	Treatment Name	Other Rate	Other Rate Unit	Growth Stage	7	14	21	28
15	Cinch ATZ	2	pt/a	Preemerg	13 cd	93 a	99 a	99 a
	Steadfast	0.75	oz/a	MidPost				
	Distinct	4	oz/a	MidPost				
	Crop Oil Conc	1	% v/v	MidPost				
	Ammonium Sulfate	3	lb/a	MidPost				
16	Cinch ATZ	2	pt/a	Preemerg	8 d	98 a	98 a	99 a
	Rimsulfuron	0.75	oz/a	MidPost				
	RU WeatherMax	26	fl oz/a	MidPost				
	Ammonium Sulfate	12	lb/100 gal	MidPost				
17	Rimsulfuron	0.75	oz/a	ErlyPost	99 a	99 a	99 a	99 a
	RU WeatherMax	26	fl oz/a	ErlyPost				
	Ammonium Sulfate	12	lb/100 gal	ErlyPost				
18	RU WeatherMax	26	fl oz/a	ErlyPost	99 a	99 a	99 a	99 a
	Ammonium Sulfate	12	lb/100 gal	ErlyPost				
19	Untreated check				0 d	0 c	0 d	0 c
20	Steadfast	0.75	oz/a	ErlyPost	98 a	99 a	99 a	99 a
	Atrazine	0.75	qt/a	ErlyPost				
	Crop Oil Conc	1	% v/v	ErlyPost				
21	Cinch ATZ	2	pt/a	Preemerg	26 c	78 a	80 ab	87 a
	Steadfast	0.75	oz/a	MidPost				
	Atrazine	0.75	qt/a	MidPost				
	Crop Oil Conc	1	% v/v	MidPost				
	Ammonium Sulfate	3	lb/a	MidPost				
22	Cinch ATZ	2	pt/a	Preemerg	7 d	91 a	96 a	99 a
	Steadfast	0.75	oz/a	MidPost				
	Callisto	2	oz/a	MidPost				
	Crop Oil Conc	1	% v/v	MidPost				
	Ammonium Sulfate	3	lb/a	MidPost				
LSD (P=.05)					12.1	14.6	14.9	14.4
CV					13.01	9.98	10.09	9.77

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.