

Purdue University

Fall Applied No-till Corn trial at SEPAC

Trial ID: 05F-SEP-NTC-06
Location: SEPAC

Study Dir.: Vince Davis
Investigator: Dr. William G. Johnson

GENERAL TRIAL INFORMATION

Study Director: Vince Davis **Title:** Research Associate
Affiliation: Purdue University
Postal Code: 47907
Investigator: Dr. William G. Johnson **Title:** Associate Professor
Affiliation: Purdue University
Postal Code: 47907

TRIAL LOCATION

City: Butlerville
State/Prov.: IN
Postal Code: 47223
Country: USA
Unit: feet
Directions: Field S10

COOPERATOR/LANDOWNER

Cooperator: Southeast Purdue Ag Center **Country:** USA
Org: Purdue University **Phone No:** 812-458-6977
Address 1: 4425 E Co Rd 350 N **Fax No:** 812-458-6979
Address 2: PO Box 216
City: Butlerville
State/Prov: IN
Postal Code: 47223

Conducted Under GLP (Y/N): N **Conducted Under GEP (Y/N):** N

Objective: The objective of this study is to evaluate fall and spring applied no-till burndown herbicide treatments prior to corn.

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	RANAB	Butercup, smallflower	Ranunculus abortivus
2.	SENGL	Cressleaf groundsel	Senecio glabellus
3.	ALOCA	Carolina foxtail	Alopecurus carolinianus
4.	ERICA	Horseweed	Erigeron canadensis
5.	PANDI	Fall panicum	Panicum dichotomiflorum
6.	CERVU	Mouse-ear chickweed	Cerastium vulgatum

Crop 1: ZEAMX CORN, FIELD **Variety:** Pioneer 34H30
Planting Date: 24/May/2006 **Planting Method:** JD7000
Rate: 27000 S/A **Depth:** 1.25 IN
Row Spacing: 30 IN **Soil Moisture:** Moist **Emergence Date:** 30/May/2006

SITE AND DESIGN

Plot Width, Unit: 10 FT **Plot Length, Unit:** 30 FT **Reps:** 4
Site Type: FIELD
Tillage Type: NO-TILL **Study Design:** RANDOMIZED COMPLETE BLOCK

	Previous Crops	Previous Pesticides	Year
1.	Soybean		2005

SOIL DESCRIPTION

% OM: 1.3 **Texture:** SILT LOAM
pH: 5.7 **Soil Name:** Clermont
CEC: 5.5 **Fert. Level:** GOOD

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit
Phosphorus	29	ppm
Potassium	61	ppm
Calcium	833	ppm
Magnesium	140	ppm

Closest Weather Station: ON SITE

Distance: 0.5 **Unit:** MI

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APPLICATION DESCRIPTION

	A	B
Application Date:	3/Nov/2005	6/Jun/2006
Time of Day:	8:00 am	11:30am
Application Method:	SPRAY	SPRAY
Application Timing:	Fall	V4-V5
Applic. Placement:	BROFOL	BROFOL
Air Temp., Unit:	55 F	78 F
% Relative Humidity:	63	60
Wind Velocity, Unit:	7 MPH	4 MPH
Dew Presence (Y/N):	N	N
Water Hardness:	Very Hard	Very Hard
Soil Temp., Unit:	50 F	72 F
Soil Moisture:	Moist	Dry
% Cloud Cover:	30	0

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	ZEAMX	ZEAMX
Stage Scale:	NA	V2
Height, Unit:		4 IN

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	RANAB	RANAB
Stage Scale:	3" dia,4l	
Density, Unit:	75 YD2	
Weed 2 Code, Stage:	SENGL	SENGL
Stage Scale:	2-3" diam	
Density, Unit:	30 YD2	
Weed 3 Code, Stage:	ALOCA	ALOCA
Stage Scale:	1-2" tall	1-5"
Density, Unit:	2-3 YD2	200 YD2
Weed 4 Code, Stage:	ERICA	ERICA
Stage Scale:	2-3" diam	1-4"
Density, Unit:	2 YD2	35 YD2
Weed 5 Code, Stage:	PANDI	PANDI
Weed 6 Code, Stage:	CERVU	CERVU

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BackPack	BackPack
Operating Pressure:	27 psi	27 psi
Nozzle Type:	XR	XR
Nozzle Size:	11002	11002
Nozzle Spacing, Unit:	20 IN	20 IN
Boom Length, Unit:	10 FT	10 FT
Boom Height, Unit:	20 IN	20 IN
Ground Speed, Unit:	3 MPH	3 MPH
Incorporation Equip.:	None	None
Hours to Incorp.:	0	0
Incorp. Depth, Unit:	0 IN	0 IN
Carrier:	H2O	H2O
Spray Volume, Unit:	15 GPA	15 GPA
Propellant:	CO2	CO2

Trial Comments

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Fall Applied No-till Corn trial at SEPAC

Trial ID: 05F-SEP-NTC-06
 Location: SEPAC

Study Dir.: Vince Davis
 Investigator: Dr. William G. Johnson

								RANAB	SENGL	ALOCA	CERVU	ALOCA	RANAB	
								EFF	EFF	EFF	EFF	EFF	EFF	
								%	%	%	%	%	%	
								28/Mar/2006	28/Mar/2006	28/Mar/2006	28/Mar/2006	26/Apr/2006	26/Apr/2006	
								3-4"ros	4-5"rose	<3"tall	1"rosett	5-10"	5-10"	
								60 YD2	15 YD2	75 YD2	5 YD2	20 YD2	5 YD2	
								EC&AW	EC&AW	EC&AW	EC&AW	EC&GN	EC&GN	
								145 DA-A	145 DA-A	145 DA-A	145 DA-A	174 DA-A	174 DA-A	
Trt No.	Treatment Name	Rate	Product Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Plot	1	2	3	4	5	6
1	Non-Treated Check							101	0	0	0	0	0	0
								506	0	0	0	0	0	0
								801	0	0	0	0	0	0
								1005	0	0	0	0	0	0
								Mean =	0	0	0	0	0	0
2	Autumn	0.85	G A/A	0.3	OZ/A	FALLBD	A	102	100	100	95	100	50	100
	COC	1	% V/V	1	% V/V	FALLBD	A	306	100	100	40	100	10	100
	UAN 28%	2.5	% V/V	1.5	QT/A	FALLBD	A	602	98	100	80	98	50	97
								805	100	100	98	100	75	99
								Mean =	100	100	78	100	46	99
3	Autumn	1.7	G A/A	0.6	OZ/A	FALLBD	A	103	100	100	95	100	40	100
	COC	1	% V/V	1	% V/V	FALLBD	A	503	100	100	40	100	30	100
	UAN 28%	2.5	% V/V	1.5	QT/A	FALLBD	A	706	100	100	93	100	50	100
								902	100	100	90	100	75	100
								Mean =	100	100	80	100	49	100
4	Autumn	0.85	G A/A	0.3	OZ/A	FALLBD	A	104	100	100	99	100	75	100
	Princep 4FL	1	LB A/A	1	QT/A	FALLBD	A	504	100	100	98	100	97	99
	COC	1	% V/V	1	% V/V	FALLBD	A	701	100	100	95	100	90	100
	UAN 28%	2.5	% V/V	1.5	QT/A	FALLBD	A	906	100	100	100	100	95	100
								Mean =	100	100	98	100	89	100
5	Autumn	0.85	G A/A	0.3	OZ/A	FALLBD	A	105	100	100	100	100	99	95
	Sencor 75DF	0.25	LB A/A	5.33	OZ/A	FALLBD	A	304	100	100	100	100	95	100
	COC	1	% V/V	1	% V/V	FALLBD	A	601	100	100	97	100	90	95
	UAN 28%	2.5	% V/V	1.5	QT/A	FALLBD	A	1001	100	100	99	100	95	100
								Mean =	100	100	99	100	95	98
6	Autumn	0.85	G A/A	0.3	OZ/A	FALLBD	A	106	100	100	100	100	98	80
	Sencor 75DF	0.47	LB A/A	10	OZ/A	FALLBD	A	403	100	100	100	100	100	100
	COC	1	% V/V	1	% V/V	FALLBD	A	606	100	100	100	100	100	100
	UAN 28%	2.5	% V/V	1.5	QT/A	FALLBD	A	1006	100	100	100	100	100	100
								Mean =	100	100	100	100	100	95
7	Autumn	0.85	G A/A	0.3	OZ/A	FALLBD	A	201	100	100	98	100	95	100
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A	401	100	100	90	100	70	100
	COC	1	% V/V	1	% V/V	FALLBD	A	802	100	100	90	100	35	100
	UAN 28%	2.5	% V/V	1.5	QT/A	FALLBD	A	904	100	100	96	100	90	100
								Mean =	100	100	94	100	73	100
8	Autumn	0.85	G A/A	0.3	OZ/A	FALLBD	A	202	100	100	100	100	100	100
	Roundup WeatherMAX	0.56	LB AE/A	1	PT/A	FALLBD	A	501	100	100	98	100	90	100
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A	604	100	100	100	100	100	100
								806	100	100	99	100	99	99
								Mean =	100	100	99	100	97	100
9	Roundup WeatherMAX	0.56	LB AE/A	1	PT/A	FALLBD	A	203	100	100	100	100	98	100
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A	305	100	100	100	100	98	100
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A	702	100	100	100	100	100	100
								905	100	100	100	100	100	100
								Mean =	100	100	100	100	99	100

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								RANAB	SENGL	ALOCA	CERVU	ALOCA	RANAB
								EFF	EFF	EFF	EFF	EFF	EFF
								%	%	%	%	%	%
								28/Mar/2006	28/Mar/2006	28/Mar/2006	28/Mar/2006	26/Apr/2006	26/Apr/2006
								3-4"ros	4-5"rose	<3"tall	1"rosett	5-10"	5-10"
								60 YD2	15 YD2	75 YD2	5 YD2	20 YD2	5 YD2
								EC&AW	EC&AW	EC&AW	EC&AW	EC&GN	EC&GN
								145 DA-A	145 DA-A	145 DA-A	145 DA-A	174 DA-A	174 DA-A
Tri	Treatment	Rate	Product	Product	Grow	Appl	Plot	1	2	3	4	5	6
No.	Name	Rate	Unit	Rate	Rate Unit	Stg	Code						
10	Basis	0.375	OZ A/A	0.5	OZ/A	FALLBD	A 204	100	100	100	100	100	100
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A 505	100	100	100	100	100	100
	COC	1	% V/V	1	% V/V	FALLBD	A 803	100	100	100	100	100	100
	Steadfast	0.56	OZ A/A	0.75	OZ/A	V4 - V5	B 1004	100	100	100	100	100	100
	Callisto	1	OZ A/A	2	FL OZ/A	V4 - V5	B						
	Atrazine	0.9	LB A/A	0.9	QT/A	V4 - V5	B						
	AMS	2.5	LB A/A	2.5	LB/A	V4 - V5	B						
	COC	1	% V/V	1	% V/V	V4 - V5	B						
							Mean =	100	100	100	100	100	100
11	Basis	0.25	OZ A/A	0.333	OZ/A	FALLBD	A 205	100	100	100	100	100	100
	Karmex 80WP	12.8	OZ A/A	16	OZ/A	FALLBD	A 406	100	100	100	100	100	100
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A 703	100	100	100	100	100	100
	COC	1	% V/V	1	% V/V	FALLBD	A 804	100	100	100	100	99	100
	Steadfast	0.56	OZ A/A	0.75	OZ/A	V4 - V5	B						
	Callisto	1	OZ A/A	2	FL OZ/A	V4 - V5	B						
	Atrazine	0.9	LB A/A	0.9	QT/A	V4 - V5	B						
	AMS	2.5	LB A/A	2.5	LB/A	V4 - V5	B						
	COC	1	% V/V	1	% V/V	V4 - V5	B						
							Mean =	100	100	100	100	100	100
12	Basis	0.25	OZ A/A	0.333	OZ/A	FALLBD	A 206	100	100	100	100	100	100
	Princep 4FL	14.4	OZ A/A	1.8	PT/A	FALLBD	A 405	100	100	100	100	100	100
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A 705	100	100	100	100	100	100
	COC	1	% V/V	1	% V/V	FALLBD	A 1002	100	100	100	100	99	100
	Steadfast	0.56	OZ A/A	0.75	OZ/A	V4 - V5	B						
	Callisto	1	OZ A/A	2	FL OZ/A	V4 - V5	B						
	Atrazine	0.9	LB A/A	0.9	QT/A	V4 - V5	B						
	AMS	2.5	LB A/A	2.5	LB/A	V4 - V5	B						
	COC	1	% V/V	1	% V/V	V4 - V5	B						
							Mean =	100	100	100	100	100	100
13	Princep 4FL	14.4	OZ A/A	1.8	PT/A	FALLBD	A 301	100	100	100	100	100	100
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A 402	100	100	99	100	95	100
	COC	1	% V/V	1	% V/V	FALLBD	A 605	100	100	97	100	80	100
	Steadfast	0.56	OZ A/A	0.75	OZ/A	V4 - V5	B 903	100	100	98	100	90	100
	Callisto	1	OZ A/A	2	FL OZ/A	V4 - V5	B						
	Atrazine	0.9	LB A/A	0.9	QT/A	V4 - V5	B						
	AMS	2.5	LB A/A	2.5	LB/A	V4 - V5	B						
	COC	1	% V/V	1	% V/V	V4 - V5	B						
							Mean =	100	100	99	100	91	100
14	Roundup WeatherMAX	0.56	LB AE/A	1	PT/A	FALLBD	A 302	99	100	99	100	96	99
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A 404	100	100	99	100	97	97
							603	100	100	100	100	100	100
							1003	100	100	100	100	95	100
							Mean =	100	100	100	100	97	99
15	Non-Treated Check						303	0	0	0	0	0	0
							502	0	0	0	0	0	0
							704	0	0	0	0	0	0
							901	0	0	0	0	0	0
							Mean =	0	0	0	0	0	0

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Weed Code								SENGL	ERICA	ERICA	PANDI	ZEAMX
Crop Code								EFF	EFF	EFF	EFF	Crop Injury
Rating Data Type								%	%	%	%	%
Rating Unit								26/Apr/2006	26/Apr/2006	6/Jun/2006	6/Jun/2006	6/Jun/2006
Rating Date								12-24"	1"ros	1-4"	1-5"	V2
Crop Stage								1 YD2	100 YD2	35 YD2	200 YD2	
Weed Stage								EC&GN	EC&GN	JM + GK	JM+GK	JM+GK
Weed Density, Unit								174 DA-A	174 DA-A	215 DA-A	215 DA-A	215 DA-A
Assessed By												
Tri-Eval Interval												
Tri No.	Treatment Name	Rate	Product	Product Rate	Grow Stg	Appl Code	Plot	7	8	9	10	11
1	Non-Treated Check						101	0	0	0	0	0
							506	0	0	0	0	0
							801	0	0	0	0	0
							1005	0	0	0	0	0
							Mean =	0	0	0	0	0
2	Autumn	0.85	G A/A	0.3	OZ/A	FALLBD A	102	100	10	.	50	0
	COC	1	% V/V	1	% V/V	FALLBD A	306	100	10	5	85	0
	UAN 28%	2.5	% V/V	1.5	QT/A	FALLBD A	602	100	0	0	90	0
							805	100	0	7	85	0
							Mean =	100	5	4	78	0
3	Autumn	1.7	G A/A	0.6	OZ/A	FALLBD A	103	100	.	75	30	0
	COC	1	% V/V	1	% V/V	FALLBD A	503	100	40	35	20	0
	UAN 28%	2.5	% V/V	1.5	QT/A	FALLBD A	706	100	20	30	.	0
							902	100	10	0	10	0
							Mean =	100	23	35	20	0
4	Autumn	0.85	G A/A	0.3	OZ/A	FALLBD A	104	100	95	77	65	0
	Princep 4FL	1	LB A/A	1	QT/A	FALLBD A	504	100	0	0	0	0
	COC	1	% V/V	1	% V/V	FALLBD A	701	100	0	40	75	0
	UAN 28%	2.5	% V/V	1.5	QT/A	FALLBD A	906	100	80	10	50	0
							Mean =	100	44	32	48	0
5	Autumn	0.85	G A/A	0.3	OZ/A	FALLBD A	105	100	90	85	85	0
	Sencor 75DF	0.25	LB A/A	5.33	OZ/A	FALLBD A	304	100	0	0	0	0
	COC	1	% V/V	1	% V/V	FALLBD A	601	100	70	55	85	0
	UAN 28%	2.5	% V/V	1.5	QT/A	FALLBD A	1001	100	50	75	40	0
							Mean =	100	53	54	53	0
6	Autumn	0.85	G A/A	0.3	OZ/A	FALLBD A	106	100	.	.	75	0
	Sencor 75DF	0.47	LB A/A	10	OZ/A	FALLBD A	403	100	50	50	35	0
	COC	1	% V/V	1	% V/V	FALLBD A	606	100	0	0	80	0
	UAN 28%	2.5	% V/V	1.5	QT/A	FALLBD A	1006	100	20	12	20	0
							Mean =	100	23	21	53	0
7	Autumn	0.85	G A/A	0.3	OZ/A	FALLBD A	201	100	80	85	85	0
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD A	401	100	90	90	50	0
	COC	1	% V/V	1	% V/V	FALLBD A	802	100	0	65	55	0
	UAN 28%	2.5	% V/V	1.5	QT/A	FALLBD A	904	100	0	0	75	0
							Mean =	100	43	60	66	0
8	Autumn	0.85	G A/A	0.3	OZ/A	FALLBD A	202	100	50	90	85	0
	Roundup WeatherMAX	0.56	LB AE/A	1	PT/A	FALLBD A	501	100	35	85	20	0
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD A	604	100	0	0	90	0
							806	100	0	0	80	0
							Mean =	100	21	44	69	0
9	Roundup WeatherMAX	0.56	LB AE/A	1	PT/A	FALLBD A	203	100	0	85	80	0
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD A	305	100	0	0	67	0
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD A	702	100	25	50	70	0
							905	100	25	0	65	0
							Mean =	100	13	34	71	0

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								SENGL	ERICA	ERICA	PANDI	ZEAMX
								EFF	EFF	EFF	EFF	Crop Injury
								%	%	%	%	%
								26/Apr/2006	26/Apr/2006	6/Jun/2006	6/Jun/2006	6/Jun/2006
								12-24"	1"ros	1-4"	1-5"	V2
								1 YD2	100 YD2	35 YD2	200 YD2	
								EC&GN	EC&GN	JM + GK	JM+GK	JM+GK
								174 DA-A	174 DA-A	215 DA-A	215 DA-A	215 DA-A
Tri	Treatment	Rate	Product	Product	Grow	Appl	Plot	7	8	9	10	11
No.	Name	Rate	Unit	Rate	Rate Unit	Stg	Code					
10	Basis	0.375	OZ A/A	0.5	OZ/A	FALLBD	A 204	100	50	80	65	0
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A 505	100	90	40	55	0
	COC	1	% V/V	1	% V/V	FALLBD	A 803	100	50	50	87	0
	Steadfast	0.56	OZ A/A	0.75	OZ/A	V4 - V5	B 1004	100	100	20	.	0
	Callisto	1	OZ A/A	2	FL OZ/A	V4 - V5	B					
	Atrazine	0.9	LB A/A	0.9	QT/A	V4 - V5	B					
	AMS	2.5	LB A/A	2.5	LB/A	V4 - V5	B					
	COC	1	% V/V	1	% V/V	V4 - V5	B					
							Mean =	100	73	48	69	0
11	Basis	0.25	OZ A/A	0.333	OZ/A	FALLBD	A 205	100	30	75	10	0
	Karmex 80WP	12.8	OZ A/A	16	OZ/A	FALLBD	A 406	100	90	30	40	0
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A 703	100	25	0	85	0
	COC	1	% V/V	1	% V/V	FALLBD	A 804	100	0	20	87	0
	Steadfast	0.56	OZ A/A	0.75	OZ/A	V4 - V5	B					
	Callisto	1	OZ A/A	2	FL OZ/A	V4 - V5	B					
	Atrazine	0.9	LB A/A	0.9	QT/A	V4 - V5	B					
	AMS	2.5	LB A/A	2.5	LB/A	V4 - V5	B					
	COC	1	% V/V	1	% V/V	V4 - V5	B					
							Mean =	100	36	31	56	0
12	Basis	0.25	OZ A/A	0.333	OZ/A	FALLBD	A 206	100	30	85	85	0
	Princep 4FL	14.4	OZ A/A	1.8	PT/A	FALLBD	A 405	100	100	50	50	0
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A 705	100	45	0	77	0
	COC	1	% V/V	1	% V/V	FALLBD	A 1002	100	40	35	40	0
	Steadfast	0.56	OZ A/A	0.75	OZ/A	V4 - V5	B					
	Callisto	1	OZ A/A	2	FL OZ/A	V4 - V5	B					
	Atrazine	0.9	LB A/A	0.9	QT/A	V4 - V5	B					
	AMS	2.5	LB A/A	2.5	LB/A	V4 - V5	B					
	COC	1	% V/V	1	% V/V	V4 - V5	B					
							Mean =	100	54	43	63	0
13	Princep 4FL	14.4	OZ A/A	1.8	PT/A	FALLBD	A 301	100	.	.	0	0
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A 402	100	30	0	0	0
	COC	1	% V/V	1	% V/V	FALLBD	A 605	100	0	0	90	0
	Steadfast	0.56	OZ A/A	0.75	OZ/A	V4 - V5	B 903	100	25	0	50	0
	Callisto	1	OZ A/A	2	FL OZ/A	V4 - V5	B					
	Atrazine	0.9	LB A/A	0.9	QT/A	V4 - V5	B					
	AMS	2.5	LB A/A	2.5	LB/A	V4 - V5	B					
	COC	1	% V/V	1	% V/V	V4 - V5	B					
							Mean =	100	18	0	35	0
14	Roundup WeatherMAX	0.56	LB AE/A	1	PT/A	FALLBD	A 302	100	10	75	35	0
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A 404	100	0	10	45	0
							603	100	0	0	90	0
							1003	100	20	15	40	0
							Mean =	100	8	25	53	0
15	Non-Treated Check						303	0	0	0	0	0
							502	0	0	0	0	0
							704	0	0	0	0	0
							901	0	0	0	0	0
							Mean =	0	0	0	0	0

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							RANAB	SENGL	ALOCA	CERVU	ALOCA	RANAB	SENGL
							EFF						
							%	%	%	%	%	%	%
							28/Mar/2006	28/Mar/2006	28/Mar/2006	28/Mar/2006	26/Apr/2006	26/Apr/2006	26/Apr/2006
							3-4"ros	4-5"rose	<3"tall	1"rosett	5-10"	5-10"	12-24"
							60 YD2	15 YD2	75 YD2	5 YD2	20 YD2	5 YD2	1 YD2
							EC&AW	EC&AW	EC&AW	EC&AW	EC&GN	EC&GN	EC&GN
							145 DA-A	145 DA-A	145 DA-A	145 DA-A	174 DA-A	174 DA-A	174 DA-A
Trt	Treatment	Rate	Product	Product	Grow	Appl	1	2	3	4	5	6	7
No.	Name	Rate	Unit	Rate	Rate Unit	Stg	Code						
12	Basis	0.25	OZ A/A	0.333	OZ/A	FALLBD	A	100 a	100 a	100 a	100 a	100 a	100 a
	Princep 4FL	14.4	OZ A/A	1.8	PT/A	FALLBD	A						
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A						
	COC	1	% V/V	1	% V/V	FALLBD	A						
	Steadfast	0.56	OZ A/A	0.75	OZ/A	V4 - V5	B						
	Callisto	1	OZ A/A	2	FL OZ/A	V4 - V5	B						
	Atrazine	0.9	LB A/A	0.9	QT/A	V4 - V5	B						
	AMS	2.5	LB A/A	2.5	LB/A	V4 - V5	B						
	COC	1	% V/V	1	% V/V	V4 - V5	B						
13	Princep 4FL	14.4	OZ A/A	1.8	PT/A	FALLBD	A	100 a	100 a	99 a	100 a	91 a	100 a
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A						
	COC	1	% V/V	1	% V/V	FALLBD	A						
	Steadfast	0.56	OZ A/A	0.75	OZ/A	V4 - V5	B						
	Callisto	1	OZ A/A	2	FL OZ/A	V4 - V5	B						
	Atrazine	0.9	LB A/A	0.9	QT/A	V4 - V5	B						
	AMS	2.5	LB A/A	2.5	LB/A	V4 - V5	B						
	COC	1	% V/V	1	% V/V	V4 - V5	B						
14	Roundup WeatherMAX	0.56	LB AE/A	1	PT/A	FALLBD	A	100 ab	100 a	100 a	100 a	97 a	99 a
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A						
15	Non-Treated Check							0 c	0 b	0 c	0 c	0 d	0 c
	LSD (P=.05)							0.4	0.0	13.4	0.4	16.3	3.9
	Standard Deviation							0.3	0.0	9.4	0.3	11.4	2.7
	CV							0.34	0.0	11.27	0.3	15.06	3.18
	Grand Mean							86.62	86.67	83.03	86.63	75.67	86.0
	Bartlett's X2							1.324	0.0	68.077	0.0	79.639	35.273
	P(Bartlett's X2)							0.25	.	0.001*	.	0.001*	0.001*
	Replicate F							0.720	0.000	2.416	1.000	1.812	1.068
	Replicate Prob(F)							0.5459	1.0000	0.0798	0.4023	0.1596	0.3728
	Treatment F							58251.396	0.000	54.285	74229.578	38.773	652.211
	Treatment Prob(F)							0.0001	1.0000	0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, LSD)

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Weed Code							ERICA	ERICA	PANDI	ZEAMX	
Crop Code							ERICA	ERICA	PANDI	ZEAMX	
Rating Data Type							EFF	EFF	EFF	Crop Injury	
Rating Unit							%	%	%	%	
Rating Date							26/Apr/2006	6/Jun/2006	6/Jun/2006	6/Jun/2006	
Crop Stage										V2	
Weed Stage							1"ros	1-4"	1-5"		
Weed Density, Unit							100 YD2	35 YD2	200 YD2		
Assessed By							EC&GN	JM + GK	JM+GK	JM+GK	
Tri-Eval Interval							174 DA-A	215 DA-A	215 DA-A	215 DA-A	
Tri No.	Treatment Name	Rate	Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	8	9	10	11
1	Non-Treated Check							0 d	0 c	0 d	0 a
2	Autumn COC UAN 28%	0.85 1 2.5	G A/A % V/V % V/V	0.3 1 1.5	OZ/A % V/V QT/A	FALLBD FALLBD FALLBD	A A A	5 cd	4 c	78 a	0 a
3	Autumn COC UAN 28%	1.7 1 2.5	G A/A % V/V % V/V	0.6 1 1.5	OZ/A % V/V QT/A	FALLBD FALLBD FALLBD	A A A	23 bcd	35 abc	20 cd	0 a
4	Autumn Princep 4FL COC UAN 28%	0.85 1 1 2.5	G A/A LB A/A % V/V % V/V	0.3 1 1 1.5	OZ/A QT/A % V/V QT/A	FALLBD FALLBD FALLBD FALLBD	A A A A	44 abc	32 abc	48 abc	0 a
5	Autumn Sencor 75DF COC UAN 28%	0.85 0.25 1 2.5	G A/A LB A/A % V/V % V/V	0.3 5.33 1 1.5	OZ/A OZ/A % V/V QT/A	FALLBD FALLBD FALLBD FALLBD	A A A A	53 ab	54 ab	53 abc	0 a
6	Autumn Sencor 75DF COC UAN 28%	0.85 0.47 1 2.5	G A/A LB A/A % V/V % V/V	0.3 10 1 1.5	OZ/A OZ/A % V/V QT/A	FALLBD FALLBD FALLBD FALLBD	A A A A	23 bcd	21 bc	53 abc	0 a
7	Autumn 2,4-D Ester COC UAN 28%	0.85 0.5 1 2.5	G A/A LB A/A % V/V % V/V	0.3 1 1 1.5	OZ/A PT/A % V/V QT/A	FALLBD FALLBD FALLBD FALLBD	A A A A	43 abc	60 a	66 ab	0 a
8	Autumn Roundup WeatherMAX AMS	0.85 0.56 2.5	G A/A LB AE/A LB A/A	0.3 1 2.5	OZ/A PT/A LB/A	FALLBD FALLBD FALLBD	A A A	21 bcd	44 ab	69 a	0 a
9	Roundup WeatherMAX 2,4-D Ester AMS	0.56 0.5 2.5	LB AE/A LB A/A LB A/A	1 1 2.5	PT/A PT/A LB/A	FALLBD FALLBD FALLBD	A A A	13 cd	34 abc	71 a	0 a
10	Basis 2,4-D Ester COC Steadfast Callisto Atrazine AMS COC	0.375 0.5 1 0.56 1 0.9 2.5 1	OZ A/A LB A/A % V/V OZ A/A OZ A/A LB A/A LB A/A % V/V	0.5 1 1 0.75 2 0.9 2.5 1	OZ/A PT/A % V/V OZ/A FL OZ/A QT/A LB/A LB/A % V/V	FALLBD FALLBD FALLBD V4 - V5 V4 - V5 V4 - V5 V4 - V5 V4 - V5 V4 - V5	A A A B B B B B B	73 a	48 ab	69 a	0 a
11	Basis Karmex 80WP 2,4-D Ester COC Steadfast Callisto Atrazine AMS COC	0.25 12.8 0.5 1 0.56 1 0.9 2.5 1	OZ A/A OZ A/A LB A/A % V/V OZ A/A OZ A/A LB A/A LB A/A % V/V	0.333 16 1 1 0.75 2 0.9 2.5 1	OZ/A OZ/A PT/A % V/V OZ/A FL OZ/A QT/A LB/A LB/A % V/V	FALLBD FALLBD FALLBD FALLBD V4 - V5 V4 - V5 V4 - V5 V4 - V5 V4 - V5 V4 - V5	A A A A B B B B B B	36 a-d	31 abc	56 ab	0 a

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							ERICA	ERICA	PANDI	ZEAMX	
							EFF	EFF	EFF	Crop Injury	
							%	%	%	%	
							26/Apr/2006	6/Jun/2006	6/Jun/2006	6/Jun/2006	
							1"ros	1-4"	1-5"	V2	
							100 YD2	35 YD2	200 YD2		
							EC&GN	JM + GK	JM+GK	JM+GK	
							174 DA-A	215 DA-A	215 DA-A	215 DA-A	
Trt No.	Treatment Name	Rate	Product Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	8	9	10	11
12	Basis	0.25	OZ A/A	0.333	OZ/A	FALLBD	A	54 ab	43 ab	63 ab	0 a
	Princep 4FL	14.4	OZ A/A	1.8	PT/A	FALLBD	A				
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A				
	COC	1	% V/V	1	% V/V	FALLBD	A				
	Steadfast	0.56	OZ A/A	0.75	OZ/A	V4 - V5	B				
	Callisto	1	OZ A/A	2	FL OZ/A	V4 - V5	B				
	Atrazine	0.9	LB A/A	0.9	QT/A	V4 - V5	B				
	AMS	2.5	LB A/A	2.5	LB/A	V4 - V5	B				
	COC	1	% V/V	1	% V/V	V4 - V5	B				
13	Princep 4FL	14.4	OZ A/A	1.8	PT/A	FALLBD	A	18 bcd	0 c	35 bc	0 a
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A				
	COC	1	% V/V	1	% V/V	FALLBD	A				
	Steadfast	0.56	OZ A/A	0.75	OZ/A	V4 - V5	B				
	Callisto	1	OZ A/A	2	FL OZ/A	V4 - V5	B				
	Atrazine	0.9	LB A/A	0.9	QT/A	V4 - V5	B				
	AMS	2.5	LB A/A	2.5	LB/A	V4 - V5	B				
	COC	1	% V/V	1	% V/V	V4 - V5	B				
14	Roundup WeatherMAX	0.56	LB AE/A	1	PT/A	FALLBD	A	8 cd	25 abc	53 abc	0 a
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A				
15	Non-Treated Check							0 d	0 c	0 d	0 a
LSD (P=.05)							39.8	37.0	32.6	0.0	
Standard Deviation							27.8	25.9	22.8	0.0	
CV							101.27	90.44	46.8	0.0	
Grand Mean							27.5	28.59	48.7	0.0	
Bartlett's X2							19.241	8.742	13.715	0.0	
P(Bartlett's X2)							0.083	0.646	0.319	.	
Replicate F							1.657	8.037	5.974	0.000	
Replicate Prob(F)							0.1921	0.0003	0.0018	1.0000	
Treatment F							2.471	2.400	4.663	0.000	
Treatment Prob(F)							0.0131	0.0158	0.0001	1.0000	

Means followed by same letter do not significantly differ (P=.05, LSD)