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Herbicide preplant burndown in no-till corn.

Trial ID: 07S-SEP-NTC-52
Location: SEPAC

Protocol ID: 07S-SEP-NTC-52
Study Director: Vince Davis/ Kevin Westerfeld
Investigator: Dr. William G. Johnson

General Trial Information

Study Director: Vince Davis / Kevin Westerfeld **Title:** Research Associate
Affiliation: Purdue University
Postal Code: 47907 **E-mail:** davisv@purdue.edu/kwesterf@purdue.edu
Investigator: Dr. William G. Johnson **Title:** Associate Professor
Affiliation: Purdue University
Postal Code: 47907 **E-mail:** wgj@purdue.edu

Trial Location

City: Butlerville
State/Prov.: IN
Postal Code: 47223-0216
Country: USA
Directions:
Field U4

Objectives:

herbicide preplant burndown in no-till corn.

Cooperator/Landowner

Cooperator: Southeast-Purdue Ag Center (SEPAC) **Country:** USA
Organization: Purdue University **Phone No.:** (812) 458-6977
Address 1: 4425 E Co Rd 350 N **Fax No.:** (812) 458-6979
City: Butlerville
State/Prov.: IN
Postal Code: 47223-0216

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC 63-74
BBCH Scale: BCOR **Planting Date:** May/08/2007
Planting Method: DIRECT DRILLED **Rate, Unit:** 29600 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Emergence Date: May/13/2007

Pest Description

Pest 1 Type: W **Code:** POAAN Poa annua
Common Name: Annual bluegrass
Pest 2 Type: W **Code:** RANAB Ranunculus abortivus
Common Name: Buttercup
Pest 3 Type: W **Code:** SENGL Senecio glabellus
Common Name: Cressleaf groundsel
Pest 4 Type: W **Code:** ERICA Erigeron canadensis
Common Name: Horseweed
Pest 5 Type: W **Code:** ALLVI Allium vineale
Common Name: Wild garlic
Pest 6 Type: W **Code:** CERVU Cerastium vulgatum
Common Name: Mouse-ear chickweed

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD
Plot Length, Unit: 30 FT **Tillage Type:** NO-TILL
Replications: 4 **Study Design:** Randomized Complete Block

Maintenance

No.	Date	Maintenance Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit
1.	Jun/04/2007	UAN	28	%	L	160	LB A/A

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Soil Description

Description Name: SEPAC Field U4
% OM: 1.6 **Texture:** Silty Loam
pH: 6.4 **Soil Name:** Avonburg
CEC: 5.7

Analyzed By:
A&L Great Lakes Laboratories

Additional Measured Elements

Element	Quantity	Unit
P	17	ppm
K	132	ppm
Mg	156	ppm
Ca	808	ppm

Moisture and Weather Conditions

Closest Weather Station: On Site **Distance:** 0.5 **Unit:** MI

Application Description

	A
Application Date:	Apr/30/2007
Time of Day:	11:00-:40
Application Method:	Backpack
Application Timing:	7dEPP
Application Placement:	BROFOL
Applied By:	KW + GK
Air Temperature, Unit:	78 F
% Relative Humidity:	75
Wind Velocity, Unit:	3.5 mph
Wind Direction:	W
Dew Presence (Y/N):	N
Water Hardness:	Hard
Soil Temperature, Unit:	68 F
Soil Moisture:	Wet
% Cloud Cover:	0

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	ZEAMX BCOR

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Pest Stage At Each Application

	A	
Pest 1 Code, Disc., Scale:	POAAN	W
Stage Maximum, Percent:	seed	
Height, Unit:	3	IN
Height Minimum, Maximum:	2	4
Density, Unit:	150	YD2
Pest 2 Code, Disc., Scale:	RANAB	W
Stage Minimum, Percent:	emerge	
Stage Maximum, Percent:	flower	
Height, Unit:	6.5	IN
Height Minimum, Maximum:	1	12
Density, Unit:	10	YD2
Pest 3 Code, Disc., Scale:	SENGL	W
Stage Maximum, Percent:	flower	
Height, Unit:	8	IN
Height Minimum, Maximum:	4	12
Density, Unit:	1.5	YD2
Pest 4 Code, Disc., Scale:	ERICA	W
Stage Maximum, Percent:	rosett	
Height, Unit:	1.5	IN
Height Minimum, Maximum:	1	2
Density, Unit:	3	YD2
Pest 5 Code, Disc., Scale:	ALLVI	W
Height, Unit:	15	IN
Height Minimum, Maximum:	6	24
Density, Unit:	7	YD2
Pest 6 Code, Disc., Scale:	CERVU	W
Stage Maximum, Percent:	seed	
Height, Unit:	4	IN
Height Minimum, Maximum:	2	6
Density, Unit:	25	YD2

Application Equipment

	A	
Appl. Equipment:	Backpack	
Operating Pressure, Unit:	17	PSI
Nozzle Type:	TeeJet XR	
Nozzle Size:	11002	
Nozzle Spacing, Unit:	15	IN
Nozzles/Row:	6	
Boom Length, Unit:	7.5	FT
Boom Height, Unit:	15	IN
Ground Speed, Unit:	3	MPH
Carrier:	TPAC H2O	
Spray Volume, Unit:	15	GAL/AC
Mix Size, Unit:	1.8	Liters
Propellant:	CO2	

Trial Comments

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Trial ID: 07S-SEP-NTC-52
 Location: SEPAC

Protocol ID: 07S-SEP-NTC-52
 Study Director: Vince Davis/ Kevin Westerfeld
 Investigator: Dr. William G. Johnson

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed						
Pest Code	SENGL	RANSS	ERICA	POAAN	SENGL	RANSS	ERICA						
Pest Name	Cressleaf g-	Buttercup	Horseweed	Annual blue>	Cressleaf g-	Buttercup	Horseweed						
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX						
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR						
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn	Corn						
Rating Date	May/08/2007	May/08/2007	May/08/2007	May/08/2007	May/15/2007	May/15/2007	May/15/2007						
Rating Data Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO						
Rating Unit	%	%	%	%	%	%	%						
Crop Stage					1 leaf	1 leaf	1 leaf						
Pest Stage	12-24"	1-12"	5-7"	2-8"	12-24"	1-12"	1-7"						
Pest Density, Unit	1.5 YD2	10 YD2	3 YD2	150 YD2	1.5 YD2	10 YD2	15 YD2						
Assessed By	AW + KW	AW + KW	AW + KW	AW + KW	VM + GK	VM + GK	VM + GK						
Days After First/Last Applic.	8 8	8 8	8 8	8 8	15 15	15 15	15 15						
Trt-Eval Interval	8 DA-A	8 DA-A	8 DA-A	8 DA-A	15 DA-A	15 DA-A	8 DA-A						
Plant-Eval Interval	0 DP-1	0 DP-1	0 DP-1	0 DP-1	7 DP-1	7 DP-1	7 DP-1						
Trt Treatment	Rate	Other Rate	Other Rate	Growth Stage	Appl Code	Plot	1	2	3	4	5	6	7
1 Untreated Check						101	0.0	0.0	0.0	0.0	0.0	0.0	0.0
						306	0.0	0.0	0.0	0.0	0.0	0.0	0.0
						604	0.0	0.0	0.0	0.0	0.0	0.0	0.0
						802	0.0	0.0	0.0	0.0	0.0	0.0	0.0
						Mean =	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Buccaneer Plus	0.75 lb ae/a	32 fl oz/a	7 dEPP A	102	100.0	30.0	80.0	90.0	100.0	100.0	100.0	100.0	100.0
Bicep II Magnum	2.9 lb ai/a	2.1 qt/a	7 dEPP A	502	70.0	40.0	100.0	85.0	100.0	100.0	100.0	100.0	100.0
NIS	0.25 % v/v	0.25 % v/v	7 dEPP A	601	90.0	25.0	100.0	42.0	100.0	100.0	100.0	100.0	100.0
Ammonium Sulfate	2 % w/w	16.7 lb/100 gal	7 dEPP A	904	80.0	80.0	90.0	85.0	100.0	100.0	100.0	100.0	100.0
						Mean =	85.0	43.8	92.5	75.5	100.0	100.0	100.0
3 ET	0.00163 lb ai/a	1 fl oz/a	7 dEPP A	103	100.0	30.0	70.0	85.0	100.0	100.0	100.0	100.0	100.0
Buccaneer Plus	0.75 lb ae/a	32 fl oz/a	7 dEPP A	403	75.0	50.0	20.0	65.0	100.0	100.0	100.0	100.0	100.0
Bicep II Magnum	2.9 lb ai/a	2.1 qt/a	7 dEPP A	701	98.0	75.0	70.0	60.0	100.0	100.0	100.0	100.0	100.0
NIS	0.25 % v/v	0.25 % v/v	7 dEPP A	706	98.0	65.0	80.0	83.0	100.0	100.0	100.0	100.0	100.0
Ammonium Sulfate	2 % w/w	16.7 lb/100 gal	7 dEPP A										
						Mean =	92.8	55.0	60.0	73.3	100.0	100.0	100.0
4 ET	0.00163 lb ai/a	1 fl oz/a	7 dEPP A	104	100.0	50.0	70.0	83.0	100.0	100.0	100.0	100.0	100.0
2,4-D Ester	0.125 lb ai/a	4 fl oz/a	7 dEPP A	501	50.0	65.0	100.0	42.0	100.0	100.0	100.0	100.0	100.0
Buccaneer Plus	0.75 lb ae/a	32 fl oz/a	7 dEPP A	504	60.0	60.0	80.0	70.0	100.0	100.0	100.0	100.0	100.0
Bicep II Magnum	2.9 lb ai/a	2.1 qt/a	7 dEPP A	901	95.0	88.0	100.0	84.0	100.0	100.0	100.0	100.0	100.0
NIS	0.25 % v/v	0.25 % v/v	7 dEPP A										
Ammonium Sulfate	2 % w/w	16.7 lb/100 gal	7 dEPP A										
						Mean =	76.3	65.8	87.5	69.8	100.0	100.0	100.0
5 ET	0.00163 lb ai/a	1 fl oz/a	7 dEPP A	105	100.0	50.0	85.0	75.0	100.0	100.0	100.0	100.0	100.0
Buccaneer Plus	0.75 lb ae/a	32 fl oz/a	7 dEPP A	406	100.0	55.0	100.0	70.0	100.0	100.0	100.0	100.0	100.0
Lumax	3 lb ai/a	3 qt/a	7 dEPP A	603	100.0	68.0	100.0	75.0	100.0	100.0	100.0	100.0	100.0
NIS	0.25 % v/v	0.25 % v/v	7 dEPP A	902	100.0	85.0	100.0	90.0	100.0	100.0	100.0	100.0	100.0
Ammonium Sulfate	2 % w/w	16.7 lb/100 gal	7 dEPP A										
						Mean =	100.0	64.5	96.3	77.5	100.0	100.0	100.0
6 LI 6211	0.387 lb ae/a	11 fl oz/a	7 dEPP A	106	50.0	20.0	50.0	30.0	100.0	100.0	100.0	100.0	80.0
Choice Weather Master	0.50 % v/v	0.50 % v/v	7 dEPP A	405	75.0	40.0	20.0	25.0	100.0	100.0	100.0	100.0	93.0
				703	0.0	10.0	25.0	25.0	100.0	100.0	100.0	100.0	97.0
				705	15.0	25.0	40.0	45.0	100.0	100.0	100.0	100.0	84.0
						Mean =	35.0	23.8	33.8	31.3	100.0	100.0	88.5
7 LI 6211	0.387 lb ae/a	11 fl oz/a	7 dEPP A	201	50.0	45.0	15.0	35.0	100.0	100.0	100.0	100.0	100.0
Choice Weather Master	0.50 % v/v	0.50 % v/v	7 dEPP A	302	90.0	45.0	45.0	45.0	100.0	100.0	100.0	100.0	100.0
Salvo	0.39 lb ai/a	10 oz/a	7 dEPP A	506	40.0	45.0	70.0	38.0	100.0	100.0	100.0	100.0	100.0
				803	90.0	80.0	100.0	65.0	100.0	100.0	100.0	100.0	100.0
						Mean =	67.5	53.8	57.5	45.8	100.0	100.0	100.0

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								W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	
Pest Type								SENL	RANSS	ERICA	POAAN	SENL	RANSS	ERICA	
Pest Code								Cressleaf g->	Buttercup	Horseweed	Annual blue->	Cressleaf g->	Buttercup	Horseweed	
Pest Name								ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	
Crop Code								BCOR	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR	
BBCH Scale								Corn	Corn	Corn	Corn	Corn	Corn	Corn	
Crop Name								May/08/2007	May/08/2007	May/08/2007	May/08/2007	May/15/2007	May/15/2007	May/15/2007	
Rating Date								CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	
Rating Data Type								%	%	%	%	%	%	%	
Rating Unit								12-24"	1-12"	5-7"	2-8"	1 leaf	1 leaf	1 leaf	
Crop Stage								1.5 YD2	10 YD2	3 YD2	150 YD2	1.5 YD2	10 YD2	15 YD2	
Pest Stage								AW + KW	AW + KW	AW + KW	AW + KW	VM + GK	VM + GK	VM + GK	
Pest Density, Unit								8 8	8 8	8 8	8 8	15 15	15 15	15 15	
Assessed By								8 DA-A	8 DA-A	8 DA-A	8 DA-A	15 DA-A	15 DA-A	8 DA-A	
Days After First/Last Applic.								0 DP-1	0 DP-1	0 DP-1	0 DP-1	7 DP-1	7 DP-1	7 DP-1	
Trt-Eval Interval															
Plant-Eval Interval															
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Plot	1	2	3	4	5	6	7
8	Makaze	0.375	lb ae/a	16	fl oz/a	7 dEPP	A	202	40.0	20.0	30.0	35.0	100.0	100.0	97.0
	Choice Weather Master	0.50	% v/v	0.50	% v/v	7 dEPP	A	401	25.0	20.0	30.0	25.0	100.0	100.0	97.0
								503	5.0	30.0	20.0	25.0	100.0	100.0	95.0
								804	25.0	75.0	90.0	58.0	100.0	100.0	97.0
		Mean =								23.8	36.3	42.5	35.8	100.0	100.0
9	Makaze	0.375	lb ae/a	16	fl oz/a	7 dEPP	A	203	40.0	25.0	50.0	53.0	100.0	100.0	99.0
	Choice Weather Master	0.50	% v/v	0.50	% v/v	7 dEPP	A	404	65.0	30.0	80.0	35.0	100.0	100.0	100.0
	Salvo	0.39	lb ai/a	10	fl oz/a	7 dEPP	A	505	40.0	38.0	70.0	50.0	100.0	100.0	100.0
								806	82.0	85.0	90.0	75.0	100.0	100.0	100.0
		Mean =								56.8	44.5	72.5	53.3	100.0	100.0
10	LI 6212	0.375	lb ae/a	16	fl oz/a	7 dEPP	A	204	25.0	28.0	20.0	35.0	100.0	100.0	95.0
	Choice Weather Master	0.50	% v/v	0.50	% v/v	7 dEPP	A	305	100.0	15.0	10.0	30.0	100.0	100.0	93.0
								606	30.0	5.0	25.0	42.0	100.0	100.0	90.0
								903	20.0	20.0	85.0	40.0	100.0	100.0	100.0
		Mean =								43.8	17.0	35.0	36.8	100.0	100.0
11	LI 6212	0.375	lb ae/a	16	fl oz/a	7 dEPP	A	205	80.0	45.0	50.0	30.0	100.0	100.0	100.0
	Choice Weather Master	0.50	% v/v	0.50	% v/v	7 dEPP	A	304	95.0	75.0	80.0	35.0	100.0	100.0	100.0
	Salvo	0.39	lb ai/a	10	fl oz/a	7 dEPP	A	602	45.0	80.0	100.0	30.0	100.0	100.0	100.0
								801	15.0	80.0	100.0	75.0	100.0	100.0	100.0
		Mean =								58.8	70.0	82.5	42.5	100.0	100.0
12	LI 6230 B	0.69	lb ai/a	22	oz/a	7 dEPP	A	206	95.0	13.0	5.0	50.0	100.0	100.0	96.0
	Makaze	0.375	lb ae/a	16	fl oz/a	7 dEPP	A	402	30.0	25.0	60.0	20.0	100.0	100.0	97.0
	Choice Weather Master	0.50	% v/v	0.50	% v/v	7 dEPP	A	605	40.0	15.0	10.0	42.0	100.0	100.0	97.0
	Liberate	0.25	% v/v	0.25	% v/v	7 dEPP	A	704	15.0	0.0	30.0	60.0	100.0	100.0	98.0
		Mean =								45.0	13.3	26.3	43.0	100.0	100.0
13	LI 6230 B	0.69	lb ai/a	22	oz/a	7 dEPP	A	301	35.0	10.0	30.0	40.0	100.0	100.0	100.0
	Salvo	0.39	lb ai/a	10	oz/a	7 dEPP	A	303	70.0	10.0	15.0	40.0	100.0	100.0	97.0
	Makaze	0.375	lb ae/a	16	fl oz/a	7 dEPP	A	702	25.0	25.0	10.0	15.0	100.0	100.0	100.0
	Choice Weather Master	0.50	% v/v	0.50	% v/v	7 dEPP	A	805	93.0	40.0	85.0	80.0	100.0	100.0	96.0
	Liberate	0.25	% v/v	0.25	% v/v	7 dEPP	A								
	Mean =								55.8	21.3	35.0	43.8	100.0	100.0	98.3

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								W Weed	W Weed	W Weed	W Weed	
								POAAN	ERICA	ALLVI		
								Annual blue->	Horseweed	Wild garlic		
Pest Type								ZEAMX	ZEAMX	ZEAMX	ZEAMX	
Pest Code								BCOR	BCOR	BCOR	BCOR	
Pest Name								Corn	Corn	Corn	Corn	
Crop Code								May/15/2007	May/29/2007	May/29/2007	May/29/2007	
BBCH Scale								CONTRO	CONTRO	CONTRO	PHYGEN	
Crop Name								%	%	%	%	
Rating Date								1 leaf	V3-V4	V3-V4	V3-V4	
Rating Data Type								4-8"	1-4"	12-36"		
Rating Unit								150 YD2	6.5 YD2	7 YD2		
Crop Stage								VM + GK	VM+GN	VM+GN	VM+GN	
Pest Stage								15 15	29 29	29 29	29 29	
Pest Density, Unit								15 DA-A	29 DA-A	60 DA-A	29 DA-A	
Assessed By								7 DP-1	21 DP-1	21 DP-1	21 DP-1	
Days After First/Last Applic.												
Trt-Eval Interval												
Plant-Eval Interval												
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Plot	8	9	10	11
1	Untreated Check							101	0.0	0.0	0.0	0.0
								306	0.0	0.0	0.0	0.0
								604	0.0	0.0	0.0	0.0
								802	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0
2	Buccaneer Plus	0.75	lb ae/a	32	fl oz/a	7 dEPP A		102	100.0	100.0	93.0	1.0
	Bicep II Magnum	2.9	lb ai/a	2.1	qt/a	7 dEPP A		502	100.0	100.0	98.0	0.0
	NIS	0.25	% v/v	0.25	% v/v	7 dEPP A		601	100.0	100.0	100.0	0.0
	Ammonium Sulfate	2	% w/w	16.7	lb/100 gal	7 dEPP A		904	100.0	100.0	40.0	0.0
								Mean =	100.0	100.0	82.8	0.3
3	ET	0.00163	lb ai/a	1	fl oz/a	7 dEPP A		103	100.0	100.0	99.0	0.0
	Buccaneer Plus	0.75	lb ae/a	32	fl oz/a	7 dEPP A		403	100.0	100.0	98.0	0.0
	Bicep II Magnum	2.9	lb ai/a	2.1	qt/a	7 dEPP A		701	100.0	100.0	97.0	0.0
	NIS	0.25	% v/v	0.25	% v/v	7 dEPP A		706	100.0	100.0	100.0	0.0
	Ammonium Sulfate	2	% w/w	16.7	lb/100 gal	7 dEPP A						
								Mean =	100.0	100.0	98.5	0.0
4	ET	0.00163	lb ai/a	1	fl oz/a	7 dEPP A		104	100.0	100.0	98.0	0.0
	2,4-D Ester	0.125	lb ai/a	4	fl oz/a	7 dEPP A		501	100.0	100.0	100.0	0.0
	Buccaneer Plus	0.75	lb ae/a	32	fl oz/a	7 dEPP A		504	100.0	100.0	100.0	0.0
	Bicep II Magnum	2.9	lb ai/a	2.1	qt/a	7 dEPP A		901	100.0	100.0	95.0	0.0
	NIS	0.25	% v/v	0.25	% v/v	7 dEPP A						
	Ammonium Sulfate	2	% w/w	16.7	lb/100 gal	7 dEPP A						
								Mean =	100.0	100.0	98.3	0.0
5	ET	0.00163	lb ai/a	1	fl oz/a	7 dEPP A		105	100.0	100.0	99.0	0.0
	Buccaneer Plus	0.75	lb ae/a	32	fl oz/a	7 dEPP A		406	100.0	100.0	99.0	0.0
	Lumax	3	lb ai/a	3	qt/a	7 dEPP A		603	100.0	100.0	100.0	0.0
	NIS	0.25	% v/v	0.25	% v/v	7 dEPP A		902	100.0	100.0	97.0	0.0
	Ammonium Sulfate	2	% w/w	16.7	lb/100 gal	7 dEPP A						
								Mean =	100.0	100.0	98.8	0.0
6	LI 6211	0.387	lb ae/a	11	fl oz/a	7 dEPP A		106	97.0	0.0	65.0	0.0
	Choice Weather Master	0.50	% v/v	0.50	% v/v	7 dEPP A		405	93.0	0.0	85.0	0.0
								703	98.0	10.0	97.0	0.0
								705	97.0	13.0	80.0	0.0
								Mean =	96.3	5.8	81.8	0.0
7	LI 6211	0.387	lb ae/a	11	fl oz/a	7 dEPP A		201	97.0	96.0	98.0	0.0
	Choice Weather Master	0.50	% v/v	0.50	% v/v	7 dEPP A		302	97.0	97.0	95.0	0.0
	Salvo	0.39	lb ai/a	10	oz/a	7 dEPP A		506	97.0	96.0	100.0	0.0
								803	97.0	98.0	73.0	0.0
								Mean =	97.0	96.8	91.5	0.0
8	Makaze	0.375	lb ae/a	16	fl oz/a	7 dEPP A		202	97.0	0.0	58.0	0.0
	Choice Weather Master	0.50	% v/v	0.50	% v/v	7 dEPP A		401	96.0	5.0	98.0	0.0
								503	95.0	45.0	90.0	0.0
								804	98.0	10.0	25.0	0.0
								Mean =	96.5	15.0	67.8	0.0

Purdue University

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	POAAN	ERICA	ALLVI	
Pest Name	Annual blue->	Horseweed	Wild garlic	
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR	BCOR	BCOR	BCOR
Crop Name	Corn	Corn	Corn	Corn
Rating Date	May/15/2007	May/29/2007	May/29/2007	May/29/2007
Rating Data Type	CONTRO	CONTRO	CONTRO	PHYGEN
Rating Unit	%	%	%	%
Crop Stage	1 leaf	V3-V4	V3-V4	V3-V4
Pest Stage	4-8"	1-4"	12-36"	
Pest Density, Unit	150 YD2	6.5 YD2	7 YD2	
Assessed By	VM + GK	VM+GN	VM+GN	VM+GN
Days After First/Last Applic.	15 15	29 29	29 29	29 29
Trt-Eval Interval	15 DA-A	29 DA-A	60 DA-A	29 DA-A
Plant-Eval Interval	7 DP-1	21 DP-1	21 DP-1	21 DP-1

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Plot	8	9	10	11
9	Makaze	0.375	lb ae/a	16	fl oz/a	7 dEPP	A	203	97.0	95.0	96.0	0.0
	Choice Weather Master	0.50	% v/v	0.50	% v/v	7 dEPP	A	404	96.0	98.0	93.0	0.0
	Salvo	0.39	lb ai/a	10	fl oz/a	7 dEPP	A	505	98.0	97.0	98.0	0.0
								806	95.0	98.0	77.0	0.0
								Mean =	96.5	97.0	91.0	0.0
10	LI 6212	0.375	lb ae/a	16	fl oz/a	7 dEPP	A	204	94.0	0.0	85.0	0.0
	Choice Weather Master	0.50	% v/v	0.50	% v/v	7 dEPP	A	305	94.0	3.0	95.0	0.0
								606	98.0	3.0	95.0	0.0
								903	98.0	23.0	45.0	0.0
								Mean =	96.0	7.3	80.0	0.0
11	LI 6212	0.375	lb ae/a	16	fl oz/a	7 dEPP	A	205	93.0	93.0	83.0	0.0
	Choice Weather Master	0.50	% v/v	0.50	% v/v	7 dEPP	A	304	95.0	96.0	98.0	0.0
	Salvo	0.39	lb ai/a	10	fl oz/a	7 dEPP	A	602	90.0	97.0	96.0	0.0
								801	98.0	98.0	75.0	0.0
								Mean =	94.0	96.0	88.0	0.0
12	LI 6230 B	0.69	lb ai/a	22	oz/a	7 dEPP	A	206	98.0	22.0	98.0	0.0
	Makaze	0.375	lb ae/a	16	fl oz/a	7 dEPP	A	402	97.0	16.0	98.0	0.0
	Choice Weather Master	0.50	% v/v	0.50	% v/v	7 dEPP	A	605	98.0	8.0	85.0	0.0
	Liberate	0.25	% v/v	0.25	% v/v	7 dEPP	A	704	99.0	20.0	100.0	0.0
								Mean =	98.0	16.5	95.3	0.0
13	LI 6230 B	0.69	lb ai/a	22	oz/a	7 dEPP	A	301	99.0	0.0	99.0	0.0
	Salvo	0.39	lb ai/a	10	oz/a	7 dEPP	A	303	99.0	22.0	99.0	0.0
	Makaze	0.375	lb ae/a	16	fl oz/a	7 dEPP	A	702	98.0	10.0	97.0	0.0
	Choice Weather Master	0.50	% v/v	0.50	% v/v	7 dEPP	A	805	97.0	50.0	25.0	0.0
	Liberate	0.25	% v/v	0.25	% v/v	7 dEPP	A					
								Mean =	98.3	20.5	80.0	0.0

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	SENGL	RANSS	ERICA	POAAN	SENGL	RANSS	ERICA			
Pest Name	Cressleaf g>	Buttercup	Horseweed	Annual blue>	Cressleaf g>	Buttercup	Horseweed			
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX			
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR			
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn	Corn			
Rating Date	May/08/2007	May/08/2007	May/08/2007	May/08/2007	May/15/2007	May/15/2007	May/15/2007			
Rating Data Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%	%	%			
Crop Stage					1 leaf	1 leaf	1 leaf			
Pest Stage	12-24"	1-12"	.5-7"	2-8"	12-24"	1-12"	1-7"			
Pest Density, Unit	1.5 YD2	10 YD2	3 YD2	150 YD2	1.5 YD2	10 YD2	15 YD2			
Assessed By	AW + KW	AW + KW	AW + KW	AW + KW	VM + GK	VM + GK	VM + GK			
Days After First/Last Applic.	8 8	8 8	8 8	8 8	15 15	15 15	15 15			
Trt-Eval Interval	8 DA-A	8 DA-A	8 DA-A	8 DA-A	15 DA-A	15 DA-A	8 DA-A			
Plant-Eval Interval	0 DP-1	0 DP-1	0 DP-1	0 DP-1	7 DP-1	7 DP-1	7 DP-1			
Trt No.	1	2	3	4	5	6	7			
Treatment Name										
Rate										
Rate Unit										
Other Rate										
Other Rate Unit										
Growth Stage										
Appl Code										
13 LI 6230 B	0.69 lb ai/a	22 oz/a	7 dEPP A	55.8 abc	21.3 cde	35.0 cde	43.8 c	100.0 a	100.0 a	98.3 a
Salvo	0.39 lb ai/a	10 oz/a	7 dEPP A							
Makaze	0.375 lb ae/a	16 fl oz/a	7 dEPP A							
Choice Weather Master	0.50 % v/v	0.50 % v/v	7 dEPP A							
Liberate	0.25 % v/v	0.25 % v/v	7 dEPP A							
LSD (P=.05)	34.94	19.96	28.39	16.59	0.00	0.00	3.77			
Standard Deviation	24.45	13.97	19.86	11.61	0.00	0.00	2.64			
CV	42.94	35.69	35.8	24.04	0.0	0.0	2.92			
Bartlett's X2	8.313	6.758	12.729	10.101	0.0	0.0	26.552			
P(Bartlett's X2)	0.598	0.818	0.311	0.521	.	.	0.001*			
Replicate F	1.917	9.048	6.844	13.395	0.000	0.000	0.306			
Replicate Prob(F)	0.1443	0.0001	0.0009	0.0001	1.0000	1.0000	0.8206			
Treatment F	5.328	10.380	8.882	14.101	0.000	0.000	430.617			
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0001	1.0000	1.0000	0.0001			

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.

Purdue University

Pest Type	W Weed	W Weed	W Weed	W Weed							
Pest Code	POAAN	ERICA	ALLVI								
Pest Name	Annual blue>	Horseweed	Wild garlic								
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX							
BBCH Scale	BCOR	BCOR	BCOR	BCOR							
Crop Name	Corn	Corn	Corn	Corn							
Rating Date	May/15/2007	May/29/2007	May/29/2007	May/29/2007							
Rating Data Type	CONTRO	CONTRO	CONTRO	PHYGEN							
Rating Unit	%	%	%	%							
Crop Stage	1 leaf	V3-V4	V3-V4	V3-V4							
Pest Stage	4-8"	1-4"	12-36"								
Pest Density, Unit	150 YD2	6.5 YD2	7 YD2								
Assessed By	VM + GK	VM+GN	VM+GN	VM+GN							
Days After First/Last Applic.	15 15	29 29	29 29	29 29							
Trt-Eval Interval	15 DA-A	29 DA-A	60 DA-A	29 DA-A							
Plant-Eval Interval	7 DP-1	21 DP-1	21 DP-1	21 DP-1							
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	8	9	10	11
1	Untreated Check							0.0 d	0.0 c	0.0 b	0.0 a
2	Buccaneer Plus	0.75	lb ae/a	32	fl oz/a	7 dEPP	A	100.0 a	100.0 a	82.8 a	0.3 a
	Bicep II Magnum	2.9	lb ai/a	2.1	qt/a	7 dEPP	A				
	NIS	0.25	% v/v	0.25	% v/v	7 dEPP	A				
	Ammonium Sulfate	2	% w/w	16.7	lb/100 gal	7 dEPP	A				
3	ET	0.00163	lb ai/a	1	fl oz/a	7 dEPP	A	100.0 a	100.0 a	98.5 a	0.0 a
	Buccaneer Plus	0.75	lb ae/a	32	fl oz/a	7 dEPP	A				
	Bicep II Magnum	2.9	lb ai/a	2.1	qt/a	7 dEPP	A				
	NIS	0.25	% v/v	0.25	% v/v	7 dEPP	A				
	Ammonium Sulfate	2	% w/w	16.7	lb/100 gal	7 dEPP	A				
4	ET	0.00163	lb ai/a	1	fl oz/a	7 dEPP	A	100.0 a	100.0 a	98.3 a	0.0 a
	2,4-D Ester	0.125	lb ai/a	4	fl oz/a	7 dEPP	A				
	Buccaneer Plus	0.75	lb ae/a	32	fl oz/a	7 dEPP	A				
	Bicep II Magnum	2.9	lb ai/a	2.1	qt/a	7 dEPP	A				
	NIS	0.25	% v/v	0.25	% v/v	7 dEPP	A				
	Ammonium Sulfate	2	% w/w	16.7	lb/100 gal	7 dEPP	A				
5	ET	0.00163	lb ai/a	1	fl oz/a	7 dEPP	A	100.0 a	100.0 a	98.8 a	0.0 a
	Buccaneer Plus	0.75	lb ae/a	32	fl oz/a	7 dEPP	A				
	Lumax	3	lb ai/a	3	qt/a	7 dEPP	A				
	NIS	0.25	% v/v	0.25	% v/v	7 dEPP	A				
	Ammonium Sulfate	2	% w/w	16.7	lb/100 gal	7 dEPP	A				
6	LI 6211	0.387	lb ae/a	11	fl oz/a	7 dEPP	A	96.3 bc	5.8 bc	81.8 a	0.0 a
	Choice Weather Master	0.50	% v/v	0.50	% v/v	7 dEPP	A				
7	LI 6211	0.387	lb ae/a	11	fl oz/a	7 dEPP	A	97.0 abc	96.8 a	91.5 a	0.0 a
	Choice Weather Master	0.50	% v/v	0.50	% v/v	7 dEPP	A				
	Salvo	0.39	lb ai/a	10	oz/a	7 dEPP	A				
8	Makaze	0.375	lb ae/a	16	fl oz/a	7 dEPP	A	96.5 bc	15.0 bc	67.8 a	0.0 a
	Choice Weather Master	0.50	% v/v	0.50	% v/v	7 dEPP	A				
9	Makaze	0.375	lb ae/a	16	fl oz/a	7 dEPP	A	96.5 bc	97.0 a	91.0 a	0.0 a
	Choice Weather Master	0.50	% v/v	0.50	% v/v	7 dEPP	A				
	Salvo	0.39	lb ai/a	10	fl oz/a	7 dEPP	A				
10	LI 6212	0.375	lb ae/a	16	fl oz/a	7 dEPP	A	96.0 bc	7.3 bc	80.0 a	0.0 a
	Choice Weather Master	0.50	% v/v	0.50	% v/v	7 dEPP	A				
11	LI 6212	0.375	lb ae/a	16	fl oz/a	7 dEPP	A	94.0 c	96.0 a	88.0 a	0.0 a
	Choice Weather Master	0.50	% v/v	0.50	% v/v	7 dEPP	A				
	Salvo	0.39	lb ai/a	10	fl oz/a	7 dEPP	A				
12	LI 6230 B	0.69	lb ai/a	22	oz/a	7 dEPP	A	98.0 ab	16.5 bc	95.3 a	0.0 a
	Makaze	0.375	lb ae/a	16	fl oz/a	7 dEPP	A				
	Choice Weather Master	0.50	% v/v	0.50	% v/v	7 dEPP	A				
	Liberate	0.25	% v/v	0.25	% v/v	7 dEPP	A				
13	LI 6230 B	0.69	lb ai/a	22	oz/a	7 dEPP	A	98.3 ab	20.5 b	80.0 a	0.0 a
	Salvo	0.39	lb ai/a	10	oz/a	7 dEPP	A				
	Makaze	0.375	lb ae/a	16	fl oz/a	7 dEPP	A				
	Choice Weather Master	0.50	% v/v	0.50	% v/v	7 dEPP	A				
	Liberate	0.25	% v/v	0.25	% v/v	7 dEPP	A				
LSD (P=.05)								2.05	12.63	21.21	0.20
Standard Deviation								1.43	8.84	14.84	0.14
CV								1.59	15.22	18.31	721.11
Bartlett's X2								8.771	35.946	48.009	0.0
P(Bartlett's X2)								0.187	0.001*	0.001*	.

Purdue University

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	POAAN	ERICA	ALLVI	
Pest Name	Annual blue>	Horseweed	Wild garlic	
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR	BCOR	BCOR	BCOR
Crop Name	Corn	Corn	Corn	Corn
Rating Date	May/15/2007	May/29/2007	May/29/2007	May/29/2007
Rating Data Type	CONTRO	CONTRO	CONTRO	PHYGEN
Rating Unit	%	%	%	%
Crop Stage	1 leaf	V3-V4	V3-V4	V3-V4
Pest Stage	4-8"	1-4"	12-36"	
Pest Density, Unit	150 YD2	6.5 YD2	7 YD2	
Assessed By	VM + GK	VM+GN	VM+GN	VM+GN
Days After First/Last Applic.	15 15	29 29	29 29	29 29
Trt-Eval Interval	15 DA-A	29 DA-A	60 DA-A	29 DA-A
Plant-Eval Interval	7 DP-1	21 DP-1	21 DP-1	21 DP-1
Replicate F	0.912	1.927	8.169	1.000
Replicate Prob(F)	0.4448	0.1427	0.0003	0.4040
Treatment F	1438.374	107.385	12.292	1.000
Treatment Prob(F)	0.0001	0.0001	0.0001	0.4685

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