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Herbicide programs with Authority MTZ and Cadet for no-till corn.

Trial ID: 10S-THP-NTC-54 Protocol ID: 10S-THP-NTC-54
 Location: Throckmorton Study Director: White/Marquardt
 Project ID: Investigator: Dr. Bill Johnson
 Sponsor Contact: FMC

General Trial Information

Study Director: White/Marquardt **Title:** Research Associate
Investigator: Dr. Bill Johnson **Title:** Professor

Discipline: H herbicide
Trial Status: E established
Initiation Date: 3-25-2010

Trial Location

City: Lafayette
State/Prov.: IN
Postal Code: 47909
Country: USA

Personnel

Study Director: White/Marquardt **Title:** Research Associate
Affiliation: Purdue University
Address: 915 W State Street
Location: West Lafayette, IN, USA
Postal Code: 47907 **E-mail:** mdwhite@purdue.edu
Phone No.: 765-494-0891
Investigator: Dr. Bill Johnson **Title:** Professor
Affiliation: Purdue University
Address: 915 W State Street
Location: West Lafayette, IN, USA
Postal Code: 47907 **E-mail:** wgj@purdue.edu
Phone No.: 765-494-4656 **Mobile No.:** 765-404-9801

Cooperator/Landowner

Cooperator: Throckmorton Purdue Ag Center **Role:** Purdue Ag Center
Organization: Purdue University
Address 1: 8343 US 231 S
City: Lafayette **Phone No.:** 765-538-3422
State/Prov.: IN **Fax No.:** 765-538-3423
Postal Code: 47909 **E-mail:** jayyoung@purdue.edu
Country: USA United States

Crop Description

Crop 1: ZEAMD Zea mays indentata Dent corn
Variety: Pioneer 33W84 **Description:** HXX, LL, RR2
BBCH Scale: BCOR **Planting Date:** 4-20-2010
 Rate, Unit: 32000 S/A
Depth, Unit: 1 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 57 F
Soil Moisture: DRY dry **Emergence Date:** 5-20-2010

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Pest Description

- Pest 1 Type:** W **Code:** LACSE *Lactuca serriola*
Common Name: Prickly lettuce
- Pest 2 Type:** W **Code:** THLSS *Thlaspi* sp.
Common Name: Pennycress
- Pest 3 Type:** W **Code:** STEME *Stellaria media*
Common Name: Common chickweed
- Pest 4 Type:** W **Code:** LAMAM *Lamium amplexicaule*
Common Name: Henbit
- Pest 5 Type:** W **Code:** ERICA *Conyza canadensis*
Common Name: Canada horseweed
- Pest 6 Type:** W **Code:** TAROF *Taraxacum officinale*
Common Name: Common dandelion
- Pest 7 Type:** W **Code:** GALAP *Galium aparine*
Common Name: Catchweed bedstraw
- Pest 8 Type:** W **Code:** SOOCA *Solidago canadensis*
Common Name: Canadian goldenrod
- Pest 9 Type:** W **Code:** ERYRE *Erysimum repandum*
Common Name: Bushy wallflower
- Pest10 Type:** W **Code:** BROTE *Bromus tectorum*
Common Name: Downy brome
- Pest11 Type:** W **Code:** HLOUM *Holosteum umbellatum*
Common Name: Jagged chickweed
- Pest12 Type:** W **Code:** AMBTR *Ambrosia trifida*
Common Name: Giant ragweed
- Pest13 Type:** W **Code:** SETFA *Setaria faberi*
Common Name: Giant foxtail
- Pest14 Type:** W **Code:** ABUTH *Abutilon theophrasti*
Common Name: Velvetleaf
- Pest15 Type:** W **Code:** CHEAL *Chenopodium album*
Common Name: Common lambsquarters

Site and Design

Plot Width, Unit: 10 FT	Site Type: FIELD field
Plot Length, Unit: 30 FT	Experimental Unit: 1 PLOT plot
Plot Area, Unit: 300 FT ²	Tillage Type: NOTILL no-till
Replications: 4	Study Design: RACOB L Randomized Complete Block (RCB)
	Untreated Arrangement: INCLUDED single control randomized in each block

Soil Description

Description Name: TPAC - Field 5

% OM: 2.3	Texture: SIL silt loam
pH: 6.6	Soil Name: Longlois
CEC: 9.9	

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Application Description		
	A	B
Application Date:	4-20-2010	6-1-2010
Time of Day:		8:30 AM
Application Method:	SPRAY	SPRAY
Application Timing:	A-ATPLAN	MIPOWE
Application Placement:	FOLIAR	FOLIAR
Applied By:	RT	MH
Air Temperature, Unit:	55 F	69 F
% Relative Humidity:	57	86
Wind Velocity, Unit:	2 MPH	1.5 MPH
Wind Direction:	SE	NE
Dew Presence (Y/N):	Y yes	Y yes
Soil Temperature, Unit:	55 F	70 F
Soil Moisture:	DRY	WET
% Cloud Cover:	80	100

Crop Stage At Each Application		
	A	B
Crop 1 Code, BBCH Scale:	ZEAMD BCOR	ZEAMD BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		V5
Height, Unit:		12 IN

Pest Stage At Each Application		
	A	B
Pest 1 Code, Type, Scale:	LACSE W	LACSE W
Stage Majority, Percent:	40 100	
Height, Unit:	6 in	
Height Minimum, Maximum:	4 8	
Density, Unit:	8 YD2	
Pest 2 Code, Type, Scale:	THLSS W	THLSS W
Stage Majority, Percent:	65 100	
Density, Unit:	17.5 YD2	
Pest 3 Code, Type, Scale:	STEME W	STEME W
Stage Majority, Percent:	65 100	
Density, Unit:	11 YD2	
Pest 4 Code, Type, Scale:	LAMAM W	LAMAM W
Stage Majority, Percent:	65 100	
Height, Unit:	6 IN	
Height Minimum, Maximum:	4 8	
Density, Unit:	2 YD2	
Pest 5 Code, Type, Scale:	ERICA W	ERICA W
Stage Majority, Percent:	40 100	
Height, Unit:	2 IN	
Height Minimum, Maximum:	1 3	
Density, Unit:	5.5 YD2	
Pest 6 Code, Type, Scale:	TAROF W	TAROF W

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Stage Majority, Percent:	65 100	
Height, Unit:	5 IN	6 IN
Height Minimum, Maximum:	2 8	2 10
Density, Unit:	5.5 YD2	18 YD2
Pest 7 Code, Type, Scale:	GALAP W	GALAP W
Stage Majority, Percent:	40 100	
Height, Unit:	5.5 IN	
Height Minimum, Maximum:	3 8	
Density, Unit:	20.5 YD2	
Pest 8 Code, Type, Scale:	SOOCA W	SOOCA W
Stage Majority, Percent:	40 100	
Height, Unit:	5 IN	
Height Minimum, Maximum:	4 6	
Density, Unit:	1 YD2	
Pest 9 Code, Type, Scale:	ERYRE W	ERYRE W
Stage Majority, Percent:	65 100	
Height, Unit:	5 IN	
Height Minimum, Maximum:	4 6	
Density, Unit:	6 YD2	
Pest10 Code, Type, Scale:	BROTE W	BROTE W
Stage Minimum, Percent:	40 50	
Stage Maximum, Percent:	65 50	
Height, Unit:	7.5 IN	
Height Minimum, Maximum:	5 10	
Density, Unit:	5.5 YD2	
Pest11 Code, Type, Scale:	HLOUM W	HLOUM W
Stage Majority, Percent:	40 100	
Height, Unit:	8 IN	
Height Minimum, Maximum:	6 10	
Density, Unit:	1.5 YD2	
Pest12 Code, Type, Scale:	AMBTR W	AMBTR W
Height, Unit:		8 IN
Height Minimum, Maximum:		6 10
Density, Unit:		7 YD2
Pest13 Code, Type, Scale:	SETFA W	SETFA W
Height, Unit:		5 IN
Height Minimum, Maximum:		6 8
Density, Unit:		7 YD2
Pest14 Code, Type, Scale:	ABUTH W	ABUTH W
Height, Unit:		4.5 IN
Height Minimum, Maximum:		1 8
Density, Unit:		7 YD2
Pest15 Code, Type, Scale:	CHEAL W	CHEAL W
Height, Unit:		1.75 IN
Height Minimum, Maximum:		0.5 3
Density, Unit:		8

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Application Equipment		
	A	B
Appl. Equipment:	CO2 BKPK	CO2 BKPK
Equipment Type:	SPRBAC	SPRBAC
Operating Pressure, Unit:	17 PSI	17 PSI
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	XR 110 02	XR 110 02
Nozzle Spacing, Unit:	15 IN	15 IN
Nozzles/Row:	8	8
Boom Length, Unit:	10 FT	10 FT
Boom Height, Unit:	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	MEIGS	MEIGS
Water Hardness (ppm CaCO3):	150	150
Spray Volume, Unit:	15 gal/ac	15 gal/ac
Mix Size, Unit:	1.8 liters	1.8 liters
Propellant:	CO2	CO2
Tank Mix (Y/N):	N no	N no

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Trial ID: 10S-THP-NTC-54 Protocol ID: 10S-THP-NTC-54
 Location: Throckmorton Study Director: White/Marquardt
 Project ID: Investigator: Dr. Bill Johnson
 Sponsor Contact: FMC

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	THLSS	LACSE	STEME	MYSMI	LAMAM	TAROF			
Pest Scientific Name	Thlaspi sp.	Lactuca serrio>	Stellaria media	Myosurus minim>	Lamium amplexi>	Taraxacum offi>			
Pest Name	Pennycress	Prickly lettuce	Common chickwe>	Mousetail	Henbit	Common dandel>			
Crop Code									
BBCH Scale									
Crop Scientific Name									
Crop Name									
Crop Variety									
Description									
Rating Date	4-30-2010	4-30-2010	4-30-2010	4-30-2010	4-30-2010	4-30-2010			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit									
Number of Subsamples	1	1	1	1	1	1			
Crop Stage Majority									
Pest Stage Majority	10"	5"	6"	4"	5"	4"			
Pest Density, Unit	10 YD2	8 YD2	10 YD2	6 FT2	7 FT2	1 YD2			
Assessed By									
Trt Treatment	Rate	Rate	Appl						
No. Name	Rate	Unit	Code	1	2	3	4	5	6
1 Untreated Check	0.0	c		0.0 c	0.0 b	0.0 c	0.0 b	0.0 c	0.0 b
2 Authority MTZ (45 WG)	0.155 lb ai/a	A		41.3 b	34.8 b	67.5 ab	12.5 b	81.0 a	39.8 ab
COC	1 % v/v	A							
Cadet (0.91 EC)	0.00074 lb ai/a	B							
Ignite 280 (2.34 SL)	0.402 lb ai/a	B							
Atrazine	1 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
3 Authority MTZ (45 WG)	0.155 lb ai/a	A		17.5 bc	12.5 b	55.0 b	32.3 b	27.5 b	7.5 b
COC	1 % v/v	A							
Cadet (0.91 EC)	0.00074 lb ai/a	B							
Roundup WeatherMax (4.5 SL)	0.84 lb ae/a	B							
Atrazine	1 lb ai/a	B							
NIS	0.25 % v/v	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
4 Gramoxone Inteon (2 SL)	0.5 lb ai/a	A		99.0 a	94.5 a	98.0 a	85.8 a	99.0 a	52.5 a
Authority MTZ (45 WG)	0.155 lb ai/a	A							
COC	1 % v/v	A							
Cadet (0.91 EC)	0.00074 lb ai/a	B							
Prowl H2O (3.8 L)	0.95 lb ai/a	B							
Accent (75 WG)	0.031 lb ai/a	B							
NIS	0.25 % v/v	B							
5 Bicep II Magnum (5.5 SC)	2.2 lb ai/a	A		17.5 bc	52.0 ab	45.0 b	32.3 b	17.5 bc	5.0 b
COC	1 % v/v	A							
Cadet (0.91 EC)	0.00074 lb ai/a	B							
Roundup WeatherMax (4.5 SL)	0.84 lb ae/a	B							
Atrazine	1 lb ai/a	B							
NIS	0.25 % v/v	B							
AMS - Liquid	8.5 lb ai/100 gal	B							

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	THLSS	LACSE	STEME	MYSMI	LAMAM	TAROF			
Pest Scientific Name	Thlaspi sp.	Lactuca serrio>	Stellaria media	Myosurus minim>	Lamium amplexi>	Taraxacum offi>			
Pest Name	Pennycress	Prickly lettuce	Common chickwe>	Mousetail	Henbit	Common dandel>			
Crop Code									
BBCH Scale									
Crop Scientific Name									
Crop Name									
Crop Variety									
Description									
Rating Date	4-30-2010	4-30-2010	4-30-2010	4-30-2010	4-30-2010	4-30-2010			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit									
Number of Subsamples	1	1	1	1	1	1			
Crop Stage Majority									
Pest Stage Majority	10"	5"	6"	4"	5"	4"			
Pest Density, Unit	10 YD2	8 YD2	10 YD2	6 FT2	7 FT2	1 YD2			
Assessed By									
Trt Treatment	Rate	Rate	Rate	Rate	Rate	Rate			
No. Name	Rate	Unit	Appl Code	1	2	3	4	5	6
6 Gramoxone Inteon (2 SL)	0.5 lb ai/a	A		96.8 a	96.8 a	97.5 a	88.3 a	99.0 a	66.3 a
Authority MTZ (45 WG)	0.155 lb ai/a	A							
COC	1 % v/v	A							
Cadet (0.91 EC)	0.00074 lb ai/a	B							
Roundup WeatherMax (4.5 SL)	0.84 lb ae/a	B							
Sencor 75DF	0.094 lb ai/a	B							
NIS	0.25 % v/v	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
7 Untreated Check				0.0 c	0.0 b	0.0 c	0.0 b	0.0 c	0.0 b
LSD (P=.05)	23.51	38.86	25.21	38.63	16.74	28.25			
Standard Deviation	15.83	26.16	16.97	26.01	11.27	19.02			
CV	40.73	63.04	32.72	72.53	24.35	77.85			
Bartlett's X2	8.011	21.828	22.968	8.26	0.936	12.02			
P(Bartlett's X2)	0.046*	0.001*	0.001*	0.083	0.626	0.017*			
Replicate F	1.491	1.829	1.292	1.170	2.745	1.003			
Replicate Prob(F)	0.2508	0.1780	0.3075	0.3489	0.0732	0.4140			
Treatment F	29.025	10.036	22.908	8.258	64.194	8.533			
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0002	0.0001	0.0002			

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.

Column 1: Weed or volunteer crop; US; control / burndown or knockdown; 10"; per square yard
Column 2: Weed or volunteer crop; US; control / burndown or knockdown; 5"; per square yard
Column 3: Weed or volunteer crop; US; control / burndown or knockdown; 6"; per square yard
Column 4: Weed or volunteer crop; US; control / burndown or knockdown; 4"; per square foot
Column 5: Weed or volunteer crop; US; control / burndown or knockdown; 5"; per square foot
Column 6: Weed or volunteer crop; US; control / burndown or knockdown; 4"; per square yard
Column 7: Weed or volunteer crop; US; control / burndown or knockdown; 18"; per square yard
Column 8: Weed or volunteer crop; US; control / burndown or knockdown; 7"; per square yard
Column 9: Weed or volunteer crop; US; control / burndown or knockdown; 7"; per square yard
Column 10: Weed or volunteer crop; US; control / burndown or knockdown; 3"; per square yard
Column 11: Weed or volunteer crop; US; control / burndown or knockdown; 8"; per square yard
Column 12: Weed or volunteer crop; US; control / burndown or knockdown
Column 13: Weed or volunteer crop; US; control / burndown or knockdown; percent; 12"; per square yard
Column 14: Weed or volunteer crop; US; control / burndown or knockdown; percent; 16"; per square yard
Column 15: Weed or volunteer crop; US; control / burndown or knockdown; percent; 7"; per square yard
Column 16: Weed or volunteer crop; US; control / burndown or knockdown; percent; 4"; per square yard
Column 17: Weed or volunteer crop; US; control / burndown or knockdown; percent; 6"; per square yard
Column 18: Weed or volunteer crop; US; control / burndown or knockdown; percent
Column 19: Weed or volunteer crop; US; control / burndown or knockdown; percent
Column 20: US; phytotoxicity - necrosis, leaf tip
Column 21: Weed or volunteer crop; US; control / burndown or knockdown; percent; 18"; per square yard; MW
Column 22: Weed or volunteer crop; US; control / burndown or knockdown; percent; 12"; per square yard; MW
Column 23: Weed or volunteer crop; US; control / burndown or knockdown; percent; 10"; per square yard; MW
Column 24: Weed or volunteer crop; US; control / burndown or knockdown; percent; 5"; per square yard; MW
Column 25: US; phytotoxicity - stunting; percent; MW
Column 26: US; phytotoxicity - bleaching; percent; MW
Column 27: US; phytotoxicity - discoloration; percent; MW
Column 28: Weed or volunteer crop; US; control / burndown or knockdown; percent; 24"; per square yard; MW
Column 29: Weed or volunteer crop; US; control / burndown or knockdown; percent; 18"; per square yard; MW

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	THLSS	LACSE	TAROF	MYSMI	LAMAM	STEME			
Pest Scientific Name	Thlaspi sp.	Lactuca serrio>	Taraxacum offi>	Myosurus minim>	Lamium amplexi>	Stellaria media			
Pest Name	Pennycress	Prickly lettuce	Common dandel>	Mousetail	Henbit	Common chickwe>			
Crop Code									
BBCH Scale									
Crop Scientific Name									
Crop Name									
Crop Variety									
Description									
Rating Date	5-5-2010	5-5-2010	5-5-2010	5-5-2010	5-5-2010	5-5-2010			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit									
Number of Subsamples	1	1	1	1	1	1			
Crop Stage Majority									
Pest Stage Majority	18"	7"	7"	3"	8"				
Pest Density, Unit	11 YD2	10 YD2	4 YD2	6 YD2	5 YD2				
Assessed By									
Trt Treatment	Rate	Rate	Appl						
No. Name	Rate	Unit	Code	7	8	9	10	11	12
1 Untreated Check				0.0 c	0.0 b	0.0 b	0.0 b	0.0 b	0.0 d
2 Authority MTZ (45 WG)	0.155 lb ai/a	A		47.5 b	20.0 b	27.5 b	20.0 b	91.8 a	35.0 c
COC	1 % v/v	A							
Cadet (0.91 EC)	0.00074 lb ai/a	B							
Ignite 280 (2.34 SL)	0.402 lb ai/a	B							
Atrazine	1 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
3 Authority MTZ (45 WG)	0.155 lb ai/a	A		27.5 bc	34.8 b	32.5 b	24.8 b	99.0 a	30.0 c
COC	1 % v/v	A							
Cadet (0.91 EC)	0.00074 lb ai/a	B							
Roundup WeatherMax (4.5 SL)	0.84 lb ae/a	B							
Atrazine	1 lb ai/a	B							
NIS	0.25 % v/v	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
4 Gramoxone Inteon (2 SL)	0.5 lb ai/a	A		99.0 a	90.8 a	76.3 a	87.3 a	99.0 a	99.0 a
Authority MTZ (45 WG)	0.155 lb ai/a	A							
COC	1 % v/v	A							
Cadet (0.91 EC)	0.00074 lb ai/a	B							
Prowl H2O (3.8 L)	0.95 lb ai/a	B							
Accent (75 WG)	0.031 lb ai/a	B							
NIS	0.25 % v/v	B							
5 Bicep II Magnum (5.5 SC)	2.2 lb ai/a	A		59.8 b	77.0 a	20.0 b	37.3 b	99.0 a	68.8 b
COC	1 % v/v	A							
Cadet (0.91 EC)	0.00074 lb ai/a	B							
Roundup WeatherMax (4.5 SL)	0.84 lb ae/a	B							
Atrazine	1 lb ai/a	B							
NIS	0.25 % v/v	B							
AMS - Liquid	8.5 lb ai/100 gal	B							

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Pest Code	THLSS	LACSE	TAROF	MYSMI	LAMAM	STEME			
Pest Scientific Name	Thlaspi sp.	Lactuca serrio>	Taraxacum offi>	Myosurus minim>	Lamium amplexi>	Stellaria media			
Pest Name	Pennycress	Prickly lettuce	Common dandel>	Mousetail	Henbit	Common chickwe>			
Crop Code									
BBCH Scale									
Crop Scientific Name									
Crop Name									
Crop Variety									
Description									
Rating Date	5-5-2010	5-5-2010	5-5-2010	5-5-2010	5-5-2010	5-5-2010			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit									
Number of Subsamples	1	1	1	1	1	1			
Crop Stage Majority									
Pest Stage Majority	18"	7"	7"	3"	8"				
Pest Density, Unit	11 YD2	10 YD2	4 YD2	6 YD2	5 YD2				
Assessed By									
Trt Treatment	Rate	Rate	Rate	Rate	Rate	Rate			
No. Name	Rate	Unit	Code	7	8	9	10	11	12
6 Gramoxone Inteon (2 SL)	0.5 lb ai/a	A		99.0 a	96.8 a	83.8 a	86.0 a	99.0 a	94.5 a
Authority MTZ (45 WG)	0.155 lb ai/a	A							
COC	1 % v/v	A							
Cadet (0.91 EC)	0.00074 lb ai/a	B							
Roundup WeatherMax (4.5 SL)	0.84 lb ae/a	B							
Sencor 75DF	0.094 lb ai/a	B							
NIS	0.25 % v/v	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
7 Untreated Check				0.0 c	0.0 b	0.0 b	0.0 b	0.0 b	0.0 d
LSD (P=.05)	27.67	31.37	24.10	38.72	8.14	20.79			
Standard Deviation	18.62	21.11	16.22	26.06	5.48	13.99			
CV	39.18	46.29	47.32	71.47	7.87	29.93			
Bartlett's X2	0.379	12.408	10.907	8.53	0.0	6.166			
P(Bartlett's X2)	0.827	0.015*	0.028*	0.074	.	0.104			
Replicate F	2.333	2.078	1.330	2.119	1.000	0.468			
Replicate Prob(F)	0.1084	0.1390	0.2958	0.1335	0.4155	0.7082			
Treatment F	19.925	15.812	17.255	7.951	302.669	35.011			
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0003	0.0001	0.0001			

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	LACSE	THLSS	TAROF	ERICA	STEME	GALAP			
Pest Scientific Name	Lactuca serrio>	Thlaspi sp.	Taraxacum offi>	Conyza canad>	Stellaria media	Galium aparine>			
Pest Name	Prickly lettuce	Pennycress	Common dandel>	Canada horsewe>	Common chickwe>	Catchweed beds>			
Crop Code									
BBCH Scale									
Crop Scientific Name									
Crop Name									
Crop Variety									
Description									
Rating Date	5-20-2010	5-20-2010	5-20-2010	5-20-2010	5-20-2010	5-20-2010			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1			
Crop Stage Majority									
Pest Stage Majority	12"	16"	7"	4"	6"				
Pest Density, Unit	7 YD2	8 YD2	2 YD2	5 YD2	10 YD2				
Assessed By									
Trt Treatment	Rate	Rate	Appl						
No. Name	Rate	Unit	Code	13	14	15	16	17	18
1 Untreated Check				0.0 b	0.0 c	0.0 b	0.0 b	0.0 b	0.0 b
2 Authority MTZ (45 WG)	0.155 lb ai/a	A		22.5 b	49.5 b	5.0 ab	25.0 b	12.5 b	89.3 a
COC	1 % v/v	A							
Cadet (0.91 EC)	0.00074 lb ai/a	B							
Ignite 280 (2.34 SL)	0.402 lb ai/a	B							
Atrazine	1 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
3 Authority MTZ (45 WG)	0.155 lb ai/a	A		7.5 b	0.0 c	7.5 ab	5.0 b	0.0 b	89.3 a
COC	1 % v/v	A							
Cadet (0.91 EC)	0.00074 lb ai/a	B							
Roundup WeatherMax (4.5 SL)	0.84 lb ae/a	B							
Atrazine	1 lb ai/a	B							
NIS	0.25 % v/v	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
4 Gramoxone Inteon (2 SL)	0.5 lb ai/a	A		74.5 a	99.0 a	37.5 a	78.5 a	96.8 a	96.8 a
Authority MTZ (45 WG)	0.155 lb ai/a	A							
COC	1 % v/v	A							
Cadet (0.91 EC)	0.00074 lb ai/a	B							
Prowl H2O (3.8 L)	0.95 lb ai/a	B							
Accent (75 WG)	0.031 lb ai/a	B							
NIS	0.25 % v/v	B							
5 Bicep II Magnum (5.5 SC)	2.2 lb ai/a	A		72.0 a	99.0 a	5.0 ab	22.5 b	42.3 b	86.8 a
COC	1 % v/v	A							
Cadet (0.91 EC)	0.00074 lb ai/a	B							
Roundup WeatherMax (4.5 SL)	0.84 lb ae/a	B							
Atrazine	1 lb ai/a	B							
NIS	0.25 % v/v	B							
AMS - Liquid	8.5 lb ai/100 gal	B							

Purdue University

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	LACSE	THLSS	TAROF	ERICA	STEME	GALAP			
Pest Scientific Name	Lactuca serrio>	Thlaspi sp.	Taraxacum offi>	Conyza canad>	Stellaria media	Galium aparine			
Pest Name	Prickly lettuce	Pennycress	Common dandel>	Canada horsewe>	Common chickwe>	Catchweed beds>			
Crop Code									
BBCH Scale									
Crop Scientific Name									
Crop Name									
Crop Variety									
Description									
Rating Date	5-20-2010	5-20-2010	5-20-2010	5-20-2010	5-20-2010	5-20-2010			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1			
Crop Stage Majority									
Pest Stage Majority	12"	16"	7"	4"	6"				
Pest Density, Unit	7 YD2	8 YD2	2 YD2	5 YD2	10 YD2				
Assessed By									
Trt Treatment	Rate	Unit	Appl Code	13	14	15	16	17	18
6 Gramoxone Inteon (2 SL)	0.5 lb ai/a	A		94.3 a	99.0 a	27.5 ab	82.3 a	94.3 a	95.5 a
Authority MTZ (45 WG)	0.155 lb ai/a	A							
COC	1 % v/v	A							
Cadet (0.91 EC)	0.00074 lb ai/a	B							
Roundup WeatherMax (4.5 SL)	0.84 lb ae/a	B							
Sencor 75DF	0.094 lb ai/a	B							
NIS	0.25 % v/v	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
7 Untreated Check				0.0 b	0.0 c	0.0 b	0.0 b	0.0 b	0.0 b
LSD (P=.05)	25.45	32.09		23.42	22.20	32.20	17.24		
Standard Deviation	17.13	21.60		15.76	14.94	21.67	11.60		
CV	44.29	43.64		133.73	49.04	61.74	17.75		
Bartlett's X2	6.558	0.0		4.674	3.315	14.234	8.644		
P(Bartlett's X2)	0.161	.		0.322	0.507	0.003*	0.071		
Replicate F	3.754	1.000		0.743	4.368	0.931	4.622		
Replicate Prob(F)	0.0296	0.4155		0.5404	0.0177	0.4462	0.0144		
Treatment F	22.052	21.000		3.479	22.660	16.402	59.605		
Treatment Prob(F)	0.0001	0.0001		0.0184	0.0001	0.0001	0.0001		

Purdue University

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	BROTE	LACSE	MYSMI	TAROF	SETFA				
Pest Scientific Name	Bromus tectorum	Lactuca serrio>	Myosurus minim>	Taraxacum offi>	Setaria faberi				
Pest Name	Downy brome	Prickly lettuce	Mousetail	Common dandel>	Giant foxtail				
Crop Code		ZEAMX				ZEAMX			
BBCH Scale		BCOR				BCOR			
Crop Scientific Name		Zea mays				Zea mays			
Crop Name		Corn				Corn			
Crop Variety									
Description									
Rating Date	5-20-2010	5-20-2010	6-8-2010	6-8-2010	6-8-2010	6-8-2010			
Rating Type	CONTRO	PHYNLT	CONTRO	CONTRO	CONTRO	PHYSTU			
Rating Unit	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1			
Crop Stage Majority			18"	12"	10"	5"			
Pest Stage Majority			6 YD2	12 YD2	2 YD2	200 YD2			
Pest Density, Unit			MW	MW	MW	MW			
Assessed By									
Trt Treatment	Rate	Rate	Rate	Rate	Rate	Rate			
No. Name	Unit	Unit	Unit	Unit	Unit	Unit			
Appl Code									
	19	20	21	22	23	24			
	25								
1 Untreated Check	0.0 b	3.0 a	0.0 b	0.0 c	0.0 d	0.0 c	15.0 a		
2 Authority MTZ (45 WG)	0.155 lb ai/a	A	74.3 a	2.5 a	86.3 a	99.0 a	86.0 a	91.3 a	12.5 a
COC	1 % v/v	A							
Cadet (0.91 EC)	0.00074 lb ai/a	B							
Ignite 280 (2.34 SL)	0.402 lb ai/a	B							
Atrazine	1 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
3 Authority MTZ (45 WG)	0.155 lb ai/a	A	74.3 a	1.5 a	59.8 a	52.3 b	47.5 bc	92.5 a	13.8 a
COC	1 % v/v	A							
Cadet (0.91 EC)	0.00074 lb ai/a	B							
Roundup WeatherMax (4.5 SL)	0.84 lb ae/a	B							
Atrazine	1 lb ai/a	B							
NIS	0.25 % v/v	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
4 Gramoxone Inteon (2 SL)	0.5 lb ai/a	A	94.3 a	1.3 a	82.0 a	67.5 ab	35.0 c	70.0 b	1.3 b
Authority MTZ (45 WG)	0.155 lb ai/a	A							
COC	1 % v/v	A							
Cadet (0.91 EC)	0.00074 lb ai/a	B							
Prowl H2O (3.8 L)	0.95 lb ai/a	B							
Accent (75 WG)	0.031 lb ai/a	B							
NIS	0.25 % v/v	B							
5 Bicep II Magnum (5.5 SC)	2.2 lb ai/a	A	74.3 a	0.8 a	81.0 a	77.0 ab	56.3 bc	94.8 a	3.8 b
COC	1 % v/v	A							
Cadet (0.91 EC)	0.00074 lb ai/a	B							
Roundup WeatherMax (4.5 SL)	0.84 lb ae/a	B							
Atrazine	1 lb ai/a	B							
NIS	0.25 % v/v	B							
AMS - Liquid	8.5 lb ai/100 gal	B							

Purdue University

	W Weed BROTE		W Weed LACSE	W Weed MYSMI	W Weed TAROF	W Weed SETFA				
Pest Type										
Pest Code										
Pest Scientific Name	Bromus tectorum		Lactuca serrio>	Myosurus minim>	Taraxacum offi>	Setaria faberi				
Pest Name	Downy brome		Prickly lettuce	Mouse tail	Common dandel>	Giant foxtail				
Crop Code		ZEAMX BCOR					ZEAMX BCOR			
BBCH Scale										
Crop Scientific Name		Zea mays					Zea mays			
Crop Name		Corn					Corn			
Crop Variety										
Description										
Rating Date	5-20-2010	5-20-2010	6-8-2010	6-8-2010	6-8-2010	6-8-2010	6-8-2010			
Rating Type	CONTRO	PHYNLT	CONTRO	CONTRO	CONTRO	CONTRO	PHYSTU			
Rating Unit	%	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1	1			
Crop Stage Majority										
Pest Stage Majority			18"	12"	10"	5"				
Pest Density, Unit			6 YD2	12 YD2	2 YD2	200 YD2				
Assessed By			MW	MW	MW	MW	MW			
Trt Treatment	Rate	Unit	Appl Code	19	20	21	22	23	24	25
6 Gramoxone Inteon (2 SL)	0.5 lb ai/a	A		94.3 a	1.3 a	87.3 a	74.8 ab	67.5 ab	91.3 a	0.0 b
Authority MTZ (45 WG)	0.155 lb ai/a	A								
COC	1 % v/v	A								
Cadet (0.91 EC)	0.00074 lb ai/a	B								
Roundup WeatherMax (4.5 SL)	0.84 lb ae/a	B								
Sencor 75DF	0.094 lb ai/a	B								
NIS	0.25 % v/v	B								
AMS - Liquid	8.5 lb ai/100 gal	B								
7 Untreated Check				0.0 b	1.8 a	0.0 b	0.0 c	0.0 d	0.0 c	11.3 a
LSD (P=.05)	36.00	4.19	22.66	24.03	18.92	7.33	7.03			
Standard Deviation	24.23	2.82	15.25	16.18	12.74	4.91	4.74			
CV	41.25	164.42	26.94	30.56	30.51	7.82	57.64			
Bartlett's X2	11.624	3.358	6.801	3.793	6.467	4.111	4.687			
P(Bartlett's X2)	0.02*	0.763	0.147	0.285	0.167	0.391	0.455			
Replicate F	6.826	0.755	3.358	2.781	0.185	1.284	0.690			
Replicate Prob(F)	0.0029	0.5336	0.0419	0.0708	0.9051	0.3118	0.5697			
Treatment F	11.517	0.309	27.166	22.917	26.280	316.593	7.142			
Treatment Prob(F)	0.0001	0.9242	0.0001	0.0001	0.0001	0.0001	0.0005			

Purdue University

Pest Type			W Weed	W Weed	W Weed	W Weed	
Pest Code			LACSE	MYSMI	SETFA	TAROF	
Pest Scientific Name			Lactuca serrio>	Myosurus minim>	Setaria faberi	Taraxacum offi>	
Pest Name			Prickly lettuce	Mousetail	Giant foxtail	Common dandel>	
Crop Code	ZEAMX	ZEAMX					ZEAMX
BBCH Scale	BCOR	BCOR					BCOR
Crop Scientific Name	Zea mays	Zea mays					Zea mays
Crop Name	Corn	Corn					Corn
Crop Variety							
Description							
Rating Date	6-8-2010	6-8-2010	6-16-2010	6-16-2010	6-16-2010	6-16-2010	6-16-2010
Rating Type	PHYBLE	PHYDIS	CONTRO	CONTRO	CONTRO	CONTRO	PHYSTU
Rating Unit	%	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1	1
Crop Stage Majority							
Pest Stage Majority			24"	18"	5"	10"	
Pest Density, Unit			8 YD2	20 YD2	60 YD2	2 YD2	
Assessed By	MW	MW	MW	MW	MW	MW	MW
Trt No.	26	27	28	29	30	31	32
Treatment Name							
Rate							
Unit							
Appl Code							
6 Gramoxone Inteon (2 SL)	0.5 lb ai/a						
Authority MTZ (45 WG)	0.155 lb ai/a						
COC	1 % v/v						
Cadet (0.91 EC)	0.00074 lb ai/a						
Roundup WeatherMax (4.5 SL)	0.84 lb ae/a						
Sencor 75DF	0.094 lb ai/a						
NIS	0.25 % v/v						
AMS - Liquid	8.5 lb ai/100 gal						
7 Untreated Check							
LSD (P=.05)	4.15	2.90	12.23	13.86	3.94	19.02	7.64
Standard Deviation	2.80	1.95	8.23	9.33	2.65	12.81	5.14
CV	237.29	170.87	12.55	15.75	4.08	25.76	54.11
Bartlett's X2	1.508	1.109	2.965	3.829	1.486	0.815	7.86
P(Bartlett's X2)	0.47	0.292	0.397	0.281	0.685	0.936	0.164
Replicate F	0.893	1.473	2.627	2.455	1.690	2.295	0.823
Replicate Prob(F)	0.4635	0.2553	0.0818	0.0964	0.2047	0.1124	0.4979
Treatment F	1.244	6.640	120.153	78.653	1127.197	32.316	10.405
Treatment Prob(F)	0.3309	0.0008	0.0001	0.0001	0.0001	0.0001	0.0001

Purdue University

Pest Type				W Weed LACSE Lactuca serrio> Prickly lettuce	W Weed MYSMI Myosurus minim> Mousetail	W Weed SETFA Setaria faberi Giant foxtail	W Weed TAROF Taraxacum offi> Common dandel>
Pest Code							
Pest Scientific Name							
Pest Name							
Crop Code	ZEAMX	ZEAMX	ZEAMX				
BBCH Scale	BCOR	BCOR	BCOR				
Crop Scientific Name	Zea mays	Zea mays	Zea mays				
Crop Name	Corn	Corn	Corn				
Crop Variety							
Description							
Rating Date	6-16-2010	6-16-2010	6-16-2010	6-28-2010	6-28-2010	6-28-2010	6-28-2010
Rating Type	STAND	PHYDIS	BUGGY	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1	1
Crop Stage Majority							
Pest Stage Majority				36"	24"	22"	
Pest Density, Unit				8 YD2	10 YD2	50 YD2	
Assessed By	MW	MW	MW	MW	MW	MW	MW
Trt No.							
Treatment Name							
Rate							
Unit							
Appl Code							
	33	34	35	36	37	38	39
1 Untreated Check	82.3 a	0.0 b	0.0 a	0.0 b	0.0 c	0.0 c	0.0 c
2 Authority MTZ (45 WG)	0.155 lb ai/a	0.0 b	0.0 a	84.8 a	99.0 a	86.3 ab	54.8 b
COC	1 % v/v						
Cadet (0.91 EC)	0.00074 lb ai/a						
Ignite 280 (2.34 SL)	0.402 lb ai/a						
Atrazine	1 lb ai/a						
COC	1 % v/v						
AMS - Liquid	8.5 lb ai/100 gal						
3 Authority MTZ (45 WG)	0.155 lb ai/a	0.0 b	0.0 a	90.8 a	72.5 b	86.3 ab	58.8 b
COC	1 % v/v						
Cadet (0.91 EC)	0.00074 lb ai/a						
Roundup WeatherMax (4.5 SL)	0.84 lb ae/a						
Atrazine	1 lb ai/a						
NIS	0.25 % v/v						
AMS - Liquid	8.5 lb ai/100 gal						
4 Gramoxone Inteon (2 SL)	0.5 lb ai/a	0.8 b	0.0 a	95.5 a	73.8 b	91.3 a	77.3 ab
Authority MTZ (45 WG)	0.155 lb ai/a						
COC	1 % v/v						
Cadet (0.91 EC)	0.00074 lb ai/a						
Prowl H2O (3.8 L)	0.95 lb ai/a						
Accent (75 WG)	0.031 lb ai/a						
NIS	0.25 % v/v						
5 Bicep II Magnum (5.5 SC)	2.2 lb ai/a	2.8 ab	0.0 a	89.5 a	83.5 ab	80.0 ab	71.0 ab
COC	1 % v/v						
Cadet (0.91 EC)	0.00074 lb ai/a						
Roundup WeatherMax (4.5 SL)	0.84 lb ae/a						
Atrazine	1 lb ai/a						
NIS	0.25 % v/v						
AMS - Liquid	8.5 lb ai/100 gal						

Purdue University

Pest Type				W Weed	W Weed	W Weed	W Weed
Pest Code				LACSE	MYSMI	SETFA	TAROF
Pest Scientific Name				Lactuca serrio>	Myosurus minim>	Setaria faberi	Taraxacum offi>
Pest Name				Prickly lettuce	Mousetail	Giant foxtail	Common dandel>
Crop Code	ZEAMX	ZEAMX	ZEAMX				
BBCH Scale	BCOR	BCOR	BCOR				
Crop Scientific Name	Zea mays	Zea mays	Zea mays				
Crop Name	Corn	Corn	Corn				
Crop Variety							
Description							
Rating Date	6-16-2010	6-16-2010	6-16-2010	6-28-2010	6-28-2010	6-28-2010	6-28-2010
Rating Type	STAND	PHYDIS	BUGGY	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1	1
Crop Stage Majority							
Pest Stage Majority				36"	24"	22"	
Pest Density, Unit				8 YD2	10 YD2	50 YD2	
Assessed By	MW	MW	MW	MW	MW	MW	MW
Trt No.	33	34	35	36	37	38	39
Treatment Name							
Rate							
Unit							
Appl Code							
6 Gramoxone Inteon (2 SL)	98.0 a	3.3 a	0.8 a	99.0 a	87.3 ab	68.8 b	99.0 a
Authority MTZ (45 WG)							
COC							
Cadet (0.91 EC)							
Roundup WeatherMax (4.5 SL)							
Sencor 75DF							
NIS							
AMS - Liquid							
7 Untreated Check	88.5 a	0.0 b	0.0 a	0.0 b	0.0 c	0.0 c	0.0 c
LSD (P=.05)	15.00	2.05	0.84	11.39	14.06	13.17	26.88
Standard Deviation	10.10	1.38	0.57	7.67	9.46	8.86	18.09
CV	10.87	143.42	529.15	11.68	15.92	15.04	35.11
Bartlett's X2	16.93	0.581	0.0	1.368	1.508	12.08	1.686
P(Bartlett's X2)	0.005*	0.748	.	0.713	0.68	0.017*	0.64
Replicate F	1.509	0.317	1.000	2.293	0.258	2.803	1.557
Replicate Prob(F)	0.2461	0.8126	0.4155	0.1126	0.8544	0.0694	0.2345
Treatment F	1.497	4.245	1.000	138.121	77.110	85.045	17.648
Treatment Prob(F)	0.2351	0.0078	0.4552	0.0001	0.0001	0.0001	0.0001

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Trt No.	Treatment Name	Rate	Unit	Appl Code	40	41	42
1	Untreated Check				43.25 c	15.43 a	
2	Authority MTZ (45 WG) COC Cadet (0.91 EC) Ignite 280 (2.34 SL) Atrazine COC AMS - Liquid	0.155 lb ai/a 1 % v/v 0.00074 lb ai/a 0.402 lb ai/a 1 lb ai/a 1 % v/v 8.5 lb ai/100 gal	A A B B B B B		200.98 ab	15.90 a	
3	Authority MTZ (45 WG) COC Cadet (0.91 EC) Roundup WeatherMax (4.5 SL) Atrazine NIS AMS - Liquid	0.155 lb ai/a 1 % v/v 0.00074 lb ai/a 0.84 lb ae/a 1 lb ai/a 0.25 % v/v 8.5 lb ai/100 gal	A A B B B B B		167.68 b	14.53 a	
4	Gramoxone Inteon (2 SL) Authority MTZ (45 WG) COC Cadet (0.91 EC) Prowl H2O (3.8 L) Accent (75 WG) NIS	0.5 lb ai/a 0.155 lb ai/a 1 % v/v 0.00074 lb ai/a 0.95 lb ai/a 0.031 lb ai/a 0.25 % v/v	A A A B B B B		218.58 a	15.25 a	
5	Bicep II Magnum (5.5 SC) COC Cadet (0.91 EC) Roundup WeatherMax (4.5 SL) Atrazine NIS AMS - Liquid	2.2 lb ai/a 1 % v/v 0.00074 lb ai/a 0.84 lb ae/a 1 lb ai/a 0.25 % v/v 8.5 lb ai/100 gal	A A B B B B B		219.95 a	14.48 a	

Pest Type						
Pest Code						
Pest Scientific Name						
Pest Name						
Crop Code		ZEAMD		ZEAMD		
BBCH Scale		BCOR		BCOR		
Crop Scientific Name		Zea mays inden>		Zea mays inden>		
Crop Name		Dent corn		Dent corn		
Crop Variety						
Description						
Rating Date		10-4-2010		10-4-2010		
Rating Type		YIELD		MOICON		
Rating Unit		BU56LB		%		
Number of Subsamples		1		1		1
Crop Stage Majority						
Pest Stage Majority						
Pest Density, Unit						
Assessed By						

Purdue University

Pest Type Pest Code Pest Scientific Name Pest Name Crop Code BBCH Scale Crop Scientific Name Crop Name Crop Variety Description Rating Date Rating Type Rating Unit Number of Subsamples Crop Stage Majority Pest Stage Majority Pest Density, Unit Assessed By	ZEAMD BCOR Zea mays inden> Dent corn 10-4-2010 YIELD BU56LB 1	ZEAMD BCOR Zea mays inden> Dent corn 10-4-2010 MOICON % 1	1																																																											
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Trt No.</th> <th style="text-align: left;">Treatment Name</th> <th style="text-align: left;">Rate</th> <th style="text-align: left;">Unit</th> <th style="text-align: left;">Appl Code</th> <th style="text-align: center;">40</th> <th style="text-align: center;">41</th> <th style="text-align: center;">42</th> </tr> </thead> <tbody> <tr> <td>6</td> <td>Gramoxone Inteon (2 SL)</td> <td>0.5 lb ai/a</td> <td></td> <td>A</td> <td rowspan="8" style="text-align: center; vertical-align: middle;">213.68 a</td> <td rowspan="8" style="text-align: center; vertical-align: middle;">15.10 a</td> <td rowspan="8"></td> </tr> <tr> <td></td> <td>Authority MTZ (45 WG)</td> <td>0.155 lb ai/a</td> <td></td> <td>A</td> </tr> <tr> <td></td> <td>COC</td> <td>1 % v/v</td> <td></td> <td>A</td> </tr> <tr> <td></td> <td>Cadet (0.91 EC)</td> <td>0.00074 lb ai/a</td> <td></td> <td>B</td> </tr> <tr> <td></td> <td>Roundup WeatherMax (4.5 SL)</td> <td>0.84 lb ae/a</td> <td></td> <td>B</td> </tr> <tr> <td></td> <td>Sencor 75DF</td> <td>0.094 lb ai/a</td> <td></td> <td>B</td> </tr> <tr> <td></td> <td>NIS</td> <td>0.25 % v/v</td> <td></td> <td>B</td> </tr> <tr> <td></td> <td>AMS - Liquid</td> <td>8.5 lb ai/100 gal</td> <td></td> <td>B</td> </tr> <tr> <td>7</td> <td>Untreated Check</td> <td></td> <td></td> <td></td> <td style="text-align: center;">55.48 c</td> <td style="text-align: center;">15.65 a</td> <td></td> </tr> </tbody> </table>	Trt No.	Treatment Name	Rate	Unit	Appl Code	40	41	42	6	Gramoxone Inteon (2 SL)	0.5 lb ai/a		A	213.68 a	15.10 a			Authority MTZ (45 WG)	0.155 lb ai/a		A		COC	1 % v/v		A		Cadet (0.91 EC)	0.00074 lb ai/a		B		Roundup WeatherMax (4.5 SL)	0.84 lb ae/a		B		Sencor 75DF	0.094 lb ai/a		B		NIS	0.25 % v/v		B		AMS - Liquid	8.5 lb ai/100 gal		B	7	Untreated Check				55.48 c	15.65 a				
Trt No.	Treatment Name	Rate	Unit	Appl Code	40	41	42																																																							
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LSD (P=.05) Standard Deviation CV Bartlett's X2 P(Bartlett's X2) Replicate F Replicate Prob(F) Treatment F Treatment Prob(F)	33.915 22.829 14.27 8.423 0.209 1.696 0.2036 46.307 0.0001	1.377 0.927 6.1 10.615 0.101 3.753 0.0297 1.347 0.2881																																																											

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Column 30: Weed or volunteer crop; US; control / burndown or knockdown; percent; 5"; per square yard; MW
Column 31: Weed or volunteer crop; US; control / burndown or knockdown; percent; 10"; per square yard; MW
Column 32: US; phytotoxicity - stunting; percent; MW
Column 33: US; STAND; percent; MW
Column 34: US; phytotoxicity - discoloration; percent; MW
Column 35: US; BUGGY; percent; MW
Column 36: Weed or volunteer crop; US; control / burndown or knockdown; percent; 36"; per square yard; MW
Column 37: Weed or volunteer crop; US; control / burndown or knockdown; percent; 24"; per square yard; MW
Column 38: Weed or volunteer crop; US; control / burndown or knockdown; percent; 22"; per square yard; MW
Column 39: Weed or volunteer crop; US; control / burndown or knockdown; percent; MW
Column 40: US; yield; bushel 56 lb
Column 41: US; moisture content; percent