

University of Wisconsin-Madison

Burndown Evaluation: Minimum Tillage

Study Director: T. L. Trower **Title:** Sr. Outreach Specialist
Investigator: V. M. Davis
Discipline: H herbicide
Initiation Date: Apr-29-2011

Trial Location

City: Arlington **Latitude of LL Corner °:** 43.18081 N
State/Prov.: WI **Longitude of LL Corner °:** 89.20252 W
Postal Code: 53911 **Altitude of LL Corner, Unit:** 1221.00 FT
Country: USA

Crop Description

Crop 1: ZEAMD Zea mays indentata Dent corn
Variety: Pioneer P99 19 AM1
BBCH Scale: BCOR **Description:** RR/LL
Planting Method: SEEDED seeded **Planting Date:** May-5-2011
Depth, Unit: 1.5 IN **Rate, Unit:** 32500 S/A
Row Spacing, Unit: 30 IN
Seed Bed: SMOOTH smooth
Harvested Width, Unit: 5 FT **Emergence Date:** May-16-2011
Harvested Length, Unit: 25 FT

Pest Description

Pest 1 Type: W **Code:** TAROF Taraxacum officinale
Common Name: Common dandelion

Pest 2 Type: W **Code:** SETFA Setaria faberi
Common Name: Giant foxtail

Pest 3 Type: W **Code:** ABUTH Abutilon theophrasti
Common Name: Velvetleaf

Pest 4 Type: W **Code:** AMBEL Ambrosia artemisiifolia
Common Name: Common ragweed

Pest 5 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: 25 FT **Tillage Type:** NOTILL no-till
Plot Area, Unit: 250 FT² **Study Design:** RACOB Randomized Complete Block (RCB)
Replications: 4

Soil Description

Description Name: Plano Silt Loam
% Sand: 7 **% OM:** 3.9 **Texture:** SIL silt loam
% Silt: 70 **pH:** 5.96 **Soil Name:** Plano
% Clay: 23 **Fert. Level:** F fair
Soil Drainage: E excellent

Application Description

	A	B	C
Application Date:	Apr-29-2011	May-12-2011	Jun-24-2011
Time of Day:	4:45P	1:40P	11:30A
Application Method:	Broadcast	Broadcast	Broadcast
Application Timing:	PREPLT	PRE	POST
Application Placement:	Soil	Soil	Foliage
Applied By:	T. Trower	T. Trower	T. Trower
Air Temperature, Unit:	61 F	85 F	69 F
% Relative Humidity:	30	68	79
Wind Velocity, Unit:	6 MPH	5 MPH	7 MPH
Wind Direction:	SE	S	NE
Soil Temperature, Unit:	58 F	74 F	64 F
Soil Moisture:	MST/MST	MST/MST	WET
% Cloud Cover:	100	40	100

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMD BCOR	ZEAMD BCOR	ZEAMD BCOR
Stage Scale Used:	BBCH	BBCH	BBCH
Stage Majority, Percent:	PREPLT	PRE	V6
Height, Unit:			13 IN
Height Minimum, Maximum:			12 14

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	TAROF W	TAROF W	TAROF W
Stage Minimum, Percent:	2 lvs		
Stage Maximum, Percent:	4 lvs		
Height, Unit:	0.5 IN		
Height Minimum, Maximum:	0.5 0.75		
Density, Unit:	0.2 FT2		
Pest 2 Code, Type, Scale:	SETFA W	SETFA W	SETFA W
Stage Majority, Percent:			4 lvs
Height, Unit:			3 IN
Height Minimum, Maximum:			3 4
Density, Unit:			2 FT2
Pest 3 Code, Type, Scale:	ABUTH W	ABUTH W	ABUTH W
Stage Majority, Percent:			4 lvs
Height, Unit:			3 IN
Density, Unit:			1 FT2
Pest 4 Code, Type, Scale:	AMBEL W	AMBEL W	AMBEL W
Stage Minimum, Percent:			6 lvs
Stage Maximum, Percent:			7 lvs
Height, Unit:			4 IN
Height Minimum, Maximum:			3 5
Density, Unit:			2 FT2
Pest 5 Code, Type, Scale:	CHEAL W	CHEAL W	CHEAL W
Stage Majority, Percent:			4 lvs
Stage Minimum, Percent:	0 lvs		
Height, Unit:	0.25 IN		1 IN
Density, Unit:	1 FT2		1 FT2

Application Equipment

	A	B	C
Operating Pressure, Unit:	30 PSI	30 PSI	30 PSI
Nozzle Type:	XR8003	XR8003	XR8002
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN
Nozzles/Row:	6	6	6
Boom Length, Unit:	10 FT	10 FT	10 FT
Boom Height, Unit:	19 IN	19 IN	19 IN
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH
Carrier:	Water	Water	WATER
Spray Volume, Unit:	20 GAL/A	20 GAL/A	15 GAL/A
Mix Size, Unit:	2.2 Liters	2.2 Liters	2 Liters
Propellant:	CO2	CO2	CO2

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Pest Name Rating Date Rating Type Rating Unit Plant-Eval Interval				Common dandelion May-11-2011 Control % 6 DP-1
Trt No.	Treatment Name	Rate	Unit	Appl Code
1	Nontreated			
2	Fierce	3 oz/a	A	100 a
	Roundup PowerMax	22 fl oz/a	A	
	AMS	2.5 lb/a	A	
	Roundup PowerMax	22 fl oz/a	C	
	AMS	2.5 lb/a	C	
3	Fierce	3 oz/a	A	100 a
	atrazine	1 pt/a	A	
	Roundup PowerMax	22 fl oz/a	A	
	AMS	2.5 lb/a	A	
	Roundup PowerMax	22 fl oz/a	C	
	AMS	2.5 lb/a	C	
4	Fierce	3.75 oz/a	A	100 a
	Roundup PowerMax	22 fl oz/a	A	
	Roundup PowerMax	22 fl oz/a	C	
	AMS	2.5 lb/a	C	
5	Fierce	4.5 oz/a	A	100 a
	Roundup PowerMax	22 fl oz/a	A	
	Roundup PowerMax	22 fl oz/a	C	
	AMS	2.5 lb/a	C	
6	Harness Xtra 5.6	1.4 qt/a	B	0 b
	Roundup PowerMax	22 fl oz/a	B	
	AMS	2.5 lb/a	B	
	Roundup PowerMax	22 fl oz/a	C	
	AMS	2.5 lb/a	C	
7	Lexar	2.25 qt/a	B	0 b
	Roundup PowerMax	22 fl oz/a	B	
	AMS	2.5 lb/a	B	
	Roundup PowerMax	22 fl oz/a	C	
	AMS	2.5 lb/a	C	
8	Corvus	3 fl oz/a	B	0 b
	atrazine	1 pt/a	B	
	Roundup PowerMax	22 fl oz/a	B	
	AMS	2.5 lb/a	B	
	Roundup PowerMax	22 fl oz/a	C	
	AMS	2.5 lb/a	C	
9	Verdict	13 fl oz/a	B	0 b
	Roundup PowerMax	22 fl oz/a	B	
	AMS	2.5 lb/a	B	
	Roundup PowerMax	22 fl oz/a	C	
	AMS	2.5 lb/a	C	
10	Nontreated			0 b
11	Corvus	5.6 fl oz/a	B	0 b
	atrazine	1 qt/a	B	
	COC	1 % v/v	B	
12	Corvus	5.6 fl oz/a	B	0 b
	atrazine	1 qt/a	B	
	Roundup PowerMax	22 fl oz/a	B	
	AMS	8.5 lb/100 gal	B	
13	Corvus	5.6 fl oz/a	B	0 b
	atrazine	1 qt/a	B	
	Ignite 280	22 fl oz/a	B	
	AMS	8.5 lb/100 gal	B	

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Pest Name				Common dandelion
Rating Date				May-11-2011
Rating Type				Control
Rating Unit				%
Plant-Eval Interval				6 DP-1
Trt No.	Treatment Name	Rate	Unit	Appl Code
				1
14	Capreno	3 fl oz/a	B	0 b
	COC	1 % v/v	B	
	AMS	8.5 lb/100 gal	B	
15	Capreno	3 fl oz/a	B	0 b
	atrazine	1 qt/a	B	
	COC	1 % v/v	B	
	AMS	8.5 lb/100 gal	B	
16	Capreno	4 fl oz/a	B	0 b
	COC	1 % v/v	B	
	AMS	8.5 lb/100 gal	B	
17	Capreno	5 fl oz/a	B	0 b
	COC	1 % v/v	B	
	AMS	8.5 lb/100 gal	B	
18	Capreno	3 fl oz/a	B	0 b
	Ignite 280	22 fl oz/a	B	
	AMS	8.5 lb/100 gal	B	
19	Capreno	3 fl oz/a	B	0 b
	Ignite 280	22 fl oz/a	B	
	Harness	2.1 pt/a	B	
	AMS	8.5 lb/100 gal	B	
20	Capreno	3 fl oz/a	B	0 b
	Roundup PowerMax	22 fl oz/a	B	
	AMS	8.5 lb/100 gal	B	
21	Capreno	3 fl oz/a	B	0 b
	Roundup PowerMax	22 fl oz/a	B	
	Harness	2.1 pt/a	B	
	AMS	8.5 lb/100 gal	B	
22	Halex GT	3.8 pt/a	B	0 b
	Activator 90	0.25 % v/v	B	
	AMS	8.5 lb/100 gal	B	
23	Harness	2.1 pt/a	B	0 b
	Roundup PowerMax	22 fl oz/a	B	
24	Verdict	16 fl oz/a	B	0 b
	MSO	1 % v/v	B	
	Roundup PowerMax	22 fl oz/a	B	
	AMS	8.5 lb/100 gal	B	
LSD (P=.10)				0.0

Means followed by same letter do not significantly differ (P=.10, LSD)

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

Untreated treatment(s) 1 excluded from analysis.

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Pest Name Rating Date Rating Type Rating Unit Plant-Eval Interval				Common lambsqu> May-11-2011 Control % 6 DP-1	Common lambsqu> May-30-2011 CONTROL 100% 25 DP-1	Common lambsqu> Jun-24-2011 CONTROL % 50 DP-1	Common lambsqu> Jul-8-2011 CONTROL % 64 DP-1	
Trt	Treatment	Rate	Appl					
No.	Name	Rate	Unit	Code	2	9	19	24
1	Nontreated				0	0	0	0
2	Fierce	3 oz/a	A		100 a	100 a	100 a	100 a
	Roundup PowerMax	22 fl oz/a	A					
	AMS	2.5 lb/a	A					
	Roundup PowerMax	22 fl oz/a	C					
	AMS	2.5 lb/a	C					
3	Fierce	3 oz/a	A		100 a	100 a	100 a	100 a
	atrazine	1 pt/a	A					
	Roundup PowerMax	22 fl oz/a	A					
	AMS	2.5 lb/a	A					
	Roundup PowerMax	22 fl oz/a	C					
	AMS	2.5 lb/a	C					
4	Fierce	3.75 oz/a	A		100 a	100 a	100 a	100 a
	Roundup PowerMax	22 fl oz/a	A					
	Roundup PowerMax	22 fl oz/a	C					
	AMS	2.5 lb/a	C					
5	Fierce	4.5 oz/a	A		100 a	100 a	100 a	100 a
	Roundup PowerMax	22 fl oz/a	A					
	Roundup PowerMax	22 fl oz/a	C					
	AMS	2.5 lb/a	C					
6	Harness Xtra 5.6	1.4 qt/a	B		0 b	100 a	100 a	100 a
	Roundup PowerMax	22 fl oz/a	B					
	AMS	2.5 lb/a	B					
	Roundup PowerMax	22 fl oz/a	C					
	AMS	2.5 lb/a	C					
7	Lexar	2.25 qt/a	B		0 b	100 a	100 a	100 a
	Roundup PowerMax	22 fl oz/a	B					
	AMS	2.5 lb/a	B					
	Roundup PowerMax	22 fl oz/a	C					
	AMS	2.5 lb/a	C					
8	Corvus	3 fl oz/a	B		0 b	99 b	100 a	100 a
	atrazine	1 pt/a	B					
	Roundup PowerMax	22 fl oz/a	B					
	AMS	2.5 lb/a	B					
	Roundup PowerMax	22 fl oz/a	C					
	AMS	2.5 lb/a	C					
9	Verdict	13 fl oz/a	B		0 b	100 a	100 a	100 a
	Roundup PowerMax	22 fl oz/a	B					
	AMS	2.5 lb/a	B					
	Roundup PowerMax	22 fl oz/a	C					
	AMS	2.5 lb/a	C					
10	Nontreated				0 b	0 c	0 e	0 b
11	Corvus	5.6 fl oz/a	B		0 b	100 a	100 a	100 a
	atrazine	1 qt/a	B					
	COC	1 % v/v	B					
12	Corvus	5.6 fl oz/a	B		0 b	100 a	100 a	100 a
	atrazine	1 qt/a	B					
	Roundup PowerMax	22 fl oz/a	B					
	AMS	8.5 lb/100 gal	B					
13	Corvus	5.6 fl oz/a	B		0 b	100 a	100 a	100 a
	atrazine	1 qt/a	B					
	Ignite 280	22 fl oz/a	B					
	AMS	8.5 lb/100 gal	B					

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Pest Name				Common lambsqu>	Common lambsqu>
Rating Date				Aug-9-2011	Sep-8-2011
Rating Type				CONTROL	CONTROL
Rating Unit				%	%
Plant-Eval Interval				96 DP-1	126 DP-1
Trt	Treatment	Rate	Appl		
No.	Name	Unit	Code	28	32
1	Nontreated			0	0
2	Fierce	3 oz/a	A	100 a	100 a
	Roundup PowerMax	22 fl oz/a	A		
	AMS	2.5 lb/a	A		
	Roundup PowerMax	22 fl oz/a	C		
	AMS	2.5 lb/a	C		
3	Fierce	3 oz/a	A	100 a	100 a
	atrazine	1 pt/a	A		
	Roundup PowerMax	22 fl oz/a	A		
	AMS	2.5 lb/a	A		
	Roundup PowerMax	22 fl oz/a	C		
	AMS	2.5 lb/a	C		
4	Fierce	3.75 oz/a	A	100 a	100 a
	Roundup PowerMax	22 fl oz/a	A		
	Roundup PowerMax	22 fl oz/a	C		
	AMS	2.5 lb/a	C		
5	Fierce	4.5 oz/a	A	100 a	100 a
	Roundup PowerMax	22 fl oz/a	A		
	Roundup PowerMax	22 fl oz/a	C		
	AMS	2.5 lb/a	C		
6	Harness Xtra 5.6	1.4 qt/a	B	100 a	100 a
	Roundup PowerMax	22 fl oz/a	B		
	AMS	2.5 lb/a	B		
	Roundup PowerMax	22 fl oz/a	C		
	AMS	2.5 lb/a	C		
7	Lexar	2.25 qt/a	B	100 a	100 a
	Roundup PowerMax	22 fl oz/a	B		
	AMS	2.5 lb/a	B		
	Roundup PowerMax	22 fl oz/a	C		
	AMS	2.5 lb/a	C		
8	Corvus	3 fl oz/a	B	100 a	100 a
	atrazine	1 pt/a	B		
	Roundup PowerMax	22 fl oz/a	B		
	AMS	2.5 lb/a	B		
	Roundup PowerMax	22 fl oz/a	C		
	AMS	2.5 lb/a	C		
9	Verdict	13 fl oz/a	B	100 a	100 a
	Roundup PowerMax	22 fl oz/a	B		
	AMS	2.5 lb/a	B		
	Roundup PowerMax	22 fl oz/a	C		
	AMS	2.5 lb/a	C		
10	Nontreated			0 c	0 d
11	Corvus	5.6 fl oz/a	B	100 a	100 a
	atrazine	1 qt/a	B		
	COC	1 % v/v	B		
12	Corvus	5.6 fl oz/a	B	100 a	100 a
	atrazine	1 qt/a	B		
	Roundup PowerMax	22 fl oz/a	B		
	AMS	8.5 lb/100 gal	B		
13	Corvus	5.6 fl oz/a	B	100 a	100 a
	atrazine	1 qt/a	B		
	Ignite 280	22 fl oz/a	B		
	AMS	8.5 lb/100 gal	B		

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Pest Name Rating Date Rating Type Rating Unit Plant-Eval Interval					Common lambsqu> May-11-2011 Control % 6 DP-1	Common lambsqu> May-30-2011 CONTROL 100% 25 DP-1	Common lambsqu> Jun-24-2011 CONTROL % 50 DP-1	Common lambsqu> Jul-8-2011 CONTROL % 64 DP-1
Trt	Treatment	Rate	Unit	Appl				
No.	Name	Rate	Unit	Code	2	9	19	24
14	Capreno	3 fl oz/a	B		0 b	100 a	99 b	100 a
	COC	1 % v/v	B					
	AMS	8.5 lb/100 gal	B					
15	Capreno	3 fl oz/a	B		0 b	100 a	100 a	100 a
	atrazine	1 qt/a	B					
	COC	1 % v/v	B					
	AMS	8.5 lb/100 gal	B					
16	Capreno	4 fl oz/a	B		0 b	100 a	100 a	100 a
	COC	1 % v/v	B					
	AMS	8.5 lb/100 gal	B					
17	Capreno	5 fl oz/a	B		0 b	100 a	100 a	100 a
	COC	1 % v/v	B					
	AMS	8.5 lb/100 gal	B					
18	Capreno	3 fl oz/a	B		0 b	100 a	99 bc	100 a
	Ignite 280	22 fl oz/a	B					
	AMS	8.5 lb/100 gal	B					
19	Capreno	3 fl oz/a	B		0 b	100 a	100 a	100 a
	Ignite 280	22 fl oz/a	B					
	Harness	2.1 pt/a	B					
	AMS	8.5 lb/100 gal	B					
20	Capreno	3 fl oz/a	B		0 b	100 a	98 c	100 a
	Roundup PowerMax	22 fl oz/a	B					
	AMS	8.5 lb/100 gal	B					
21	Capreno	3 fl oz/a	B		0 b	100 a	100 a	100 a
	Roundup PowerMax	22 fl oz/a	B					
	Harness	2.1 pt/a	B					
	AMS	8.5 lb/100 gal	B					
22	Halex GT	3.8 pt/a	B		0 b	100 a	100 a	100 a
	Activator 90	0.25 % v/v	B					
	AMS	8.5 lb/100 gal	B					
23	Harness	2.1 pt/a	B		0 b	100 a	96 d	100 a
	Roundup PowerMax	22 fl oz/a	B					
24	Verdict	16 fl oz/a	B		0 b	100 a	100 a	100 a
	MSO	1 % v/v	B					
	Roundup PowerMax	22 fl oz/a	B					
	AMS	8.5 lb/100 gal	B					
LSD (P=.10)					0.0	0.4	1.1	0.0

Means followed by same letter do not significantly differ (P=.10, LSD)

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

Untreated treatment(s) 1 excluded from analysis.

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Pest Name				Common lambsqu>	Common lambsqu>
Rating Date				Aug-9-2011	Sep-8-2011
Rating Type				CONTROL	CONTROL
Rating Unit				%	%
Plant-Eval Interval				96 DP-1	126 DP-1
Trt	Treatment		Rate	Appl	
No.	Name	Rate	Unit	Code	
14	Capreno	3 fl oz/a	B		
	COC	1 % v/v	B		
	AMS	8.5 lb/100 gal	B		
15	Capreno	3 fl oz/a	B		
	atrazine	1 qt/a	B		
	COC	1 % v/v	B		
	AMS	8.5 lb/100 gal	B		
16	Capreno	4 fl oz/a	B		
	COC	1 % v/v	B		
	AMS	8.5 lb/100 gal	B		
17	Capreno	5 fl oz/a	B		
	COC	1 % v/v	B		
	AMS	8.5 lb/100 gal	B		
18	Capreno	3 fl oz/a	B		
	Ignite 280	22 fl oz/a	B		
	AMS	8.5 lb/100 gal	B		
19	Capreno	3 fl oz/a	B		
	Ignite 280	22 fl oz/a	B		
	Harness	2.1 pt/a	B		
	AMS	8.5 lb/100 gal	B		
20	Capreno	3 fl oz/a	B		
	Roundup PowerMax	22 fl oz/a	B		
	AMS	8.5 lb/100 gal	B		
21	Capreno	3 fl oz/a	B		
	Roundup PowerMax	22 fl oz/a	B		
	Harness	2.1 pt/a	B		
	AMS	8.5 lb/100 gal	B		
22	Halex GT	3.8 pt/a	B		
	Activator 90	0.25 % v/v	B		
	AMS	8.5 lb/100 gal	B		
23	Harness	2.1 pt/a	B		
	Roundup PowerMax	22 fl oz/a	B		
24	Verdict	16 fl oz/a	B		
	MSO	1 % v/v	B		
	Roundup PowerMax	22 fl oz/a	B		
	AMS	8.5 lb/100 gal	B		
LSD (P=.10)				1.5	2.2

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Pest Name Rating Date Rating Type Rating Unit Plant-Eval Interval				Faber's foxtail May-11-2011 Control % 6 DP-1	Giant foxtail May-30-2011 CONTROL 100% 25 DP-1	Faber's foxtail Jun-24-2011 CONTROL % 50 DP-1	Faber's foxtail Jul-8-2011 CONTROL % 64 DP-1	Faber's foxtail Aug-9-2011 CONTROL % 96 DP-1	Faber's foxtail Sep-8-2011 CONTROL % 126 DP-1
Trt No.	Treatment Name	Rate	Appl Unit Code	3	8	18	23	27	31
1	Nontreated			0	0	0	0	0	0
2	Fierce	3 oz/a	A	100 a	100 a	98 ab	100 a	100 a	99 a
	Roundup PowerMax	22 fl oz/a	A						
	AMS	2.5 lb/a	A						
	Roundup PowerMax	22 fl oz/a	C						
	AMS	2.5 lb/a	C						
3	Fierce	3 oz/a	A	100 a	100 a	100 a	100 a	100 a	100 a
	atrazine	1 pt/a	A						
	Roundup PowerMax	22 fl oz/a	A						
	AMS	2.5 lb/a	A						
	Roundup PowerMax	22 fl oz/a	C						
	AMS	2.5 lb/a	C						
4	Fierce	3.75 oz/a	A	100 a	100 a	99 a	100 a	100 a	99 a
	Roundup PowerMax	22 fl oz/a	A						
	Roundup PowerMax	22 fl oz/a	C						
	AMS	2.5 lb/a	C						
5	Fierce	4.5 oz/a	A	100 a	100 a	100 a	100 a	100 a	100 a
	Roundup PowerMax	22 fl oz/a	A						
	Roundup PowerMax	22 fl oz/a	C						
	AMS	2.5 lb/a	C						
6	Harness Xtra 5.6	1.4 qt/a	B	0 b	100 a	100 a	100 a	99 a	98 a
	Roundup PowerMax	22 fl oz/a	B						
	AMS	2.5 lb/a	B						
	Roundup PowerMax	22 fl oz/a	C						
	AMS	2.5 lb/a	C						
7	Lexar	2.25 qt/a	B	0 b	100 a	100 a	100 a	100 a	100 a
	Roundup PowerMax	22 fl oz/a	B						
	AMS	2.5 lb/a	B						
	Roundup PowerMax	22 fl oz/a	C						
	AMS	2.5 lb/a	C						
8	Corvus	3 fl oz/a	B	0 b	100 a	100 a	100 a	99 a	99 a
	atrazine	1 pt/a	B						
	Roundup PowerMax	22 fl oz/a	B						
	AMS	2.5 lb/a	B						
	Roundup PowerMax	22 fl oz/a	C						
	AMS	2.5 lb/a	C						
9	Verdict	13 fl oz/a	B	0 b	100 a	100 a	100 a	100 a	100 a
	Roundup PowerMax	22 fl oz/a	B						
	AMS	2.5 lb/a	B						
	Roundup PowerMax	22 fl oz/a	C						
	AMS	2.5 lb/a	C						
10	Nontreated			0 b	0 c	0 c	0 e	0 e	0 e
11	Corvus	5.6 fl oz/a	B	0 b	100 a	100 a	100 a	98 a	96 a
	atrazine	1 qt/a	B						
	COC	1 % v/v	B						
12	Corvus	5.6 fl oz/a	B	0 b	100 a	100 a	100 a	97 a	97 a
	atrazine	1 qt/a	B						
	Roundup PowerMax	22 fl oz/a	B						
	AMS	8.5 lb/100 gal	B						
13	Corvus	5.6 fl oz/a	B	0 b	100 a	100 a	100 a	97 a	97 a
	atrazine	1 qt/a	B						
	Ignite 280	22 fl oz/a	B						
	AMS	8.5 lb/100 gal	B						

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Pest Name Rating Date Rating Type Rating Unit Plant-Eval Interval				Faber's foxtail May-11-2011 Control % 6 DP-1	Giant foxtail May-30-2011 CONTROL 100% 25 DP-1	Faber's foxtail Jun-24-2011 CONTROL % 50 DP-1	Faber's foxtail Jul-8-2011 CONTROL % 64 DP-1	Faber's foxtail Aug-9-2011 CONTROL % 96 DP-1	Faber's foxtail Sep-8-2011 CONTROL % 126 DP-1	
Trt	Treatment	Rate	Appl							
No.	Name	Rate	Unit	Code	3	8	18	23	27	31
14	Capreno	3 fl oz/a	B		0 b	99 b	98 ab	92 d	83 cd	82 c
	COC	1 % v/v	B							
	AMS	8.5 lb/100 gal	B							
15	Capreno	3 fl oz/a	B		0 b	100 a	98 ab	95 bcd	90 bc	86 b
	atrazine	1 qt/a	B							c
	COC	1 % v/v	B							
	AMS	8.5 lb/100 gal	B							
16	Capreno	4 fl oz/a	B		0 b	100 a	98 ab	95 bcd	89 bc	85 b
	COC	1 % v/v	B							c
	AMS	8.5 lb/100 gal	B							
17	Capreno	5 fl oz/a	B		0 b	99 b	98 ab	96 bc	89 bc	89 b
	COC	1 % v/v	B							
	AMS	8.5 lb/100 gal	B							
18	Capreno	3 fl oz/a	B		0 b	100 a	98 ab	93 cd	81 d	74 d
	Ignite 280	22 fl oz/a	B							
	AMS	8.5 lb/100 gal	B							
19	Capreno	3 fl oz/a	B		0 b	100 a	100 a	100 a	97 a	96 a
	Ignite 280	22 fl oz/a	B							
	Harness	2.1 pt/a	B							
	AMS	8.5 lb/100 gal	B							
20	Capreno	3 fl oz/a	B		0 b	99 ab	98 ab	95 bcd	88 cd	81 c
	Roundup PowerMax	22 fl oz/a	B							
	AMS	8.5 lb/100 gal	B							
21	Capreno	3 fl oz/a	B		0 b	100 a	99 a	100 a	97 a	99 a
	Roundup PowerMax	22 fl oz/a	B							
	Harness	2.1 pt/a	B							
	AMS	8.5 lb/100 gal	B							
22	Halex GT	3.8 pt/a	B		0 b	100 a	96 b	93 cd	84 cd	83 b
	Activator 90	0.25 % v/v	B							c
	AMS	8.5 lb/100 gal	B							
23	Harness	2.1 pt/a	B		0 b	100 a	98 ab	98 ab	96 ab	95 a
	Roundup PowerMax	22 fl oz/a	B							
24	Verdict	16 fl oz/a	B		0 b	100 a	96 b	92 cd	87 cd	85 b
	MSO	1 % v/v	B							c
	Roundup PowerMax	22 fl oz/a	B							
	AMS	8.5 lb/100 gal	B							
LSD (P=.10)					0.0	0.9	2.6	3.9	7.0	6.0

Means followed by same letter do not significantly differ (P=.10, LSD)

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

Untreated treatment(s) 1 excluded from analysis.

University of Wisconsin-Madison

Pest Name Rating Date Rating Type Rating Unit Plant-Eval Interval				Velvetleaf May-30-2011 CONTROL 100% 25 DP-1	Velvetleaf Jun-24-2011 CONTROL % 50 DP-1	Velvetleaf Jul-8-2011 CONTROL % 64 DP-1	Velvetleaf Aug-9-2011 CONTROL % 96 DP-1	Velvetleaf Sep-8-2011 CONTROL % 126 DP-1
Trt No.	Treatment Name	Rate	Unit	Appl Code				
1	Nontreated				0	0	0	0
2	Fierce	3 oz/a	A		100 a	100 a	99 a	100 a
	Roundup PowerMax	22 fl oz/a	A					
	AMS	2.5 lb/a	A					
	Roundup PowerMax	22 fl oz/a	C					
	AMS	2.5 lb/a	C					
3	Fierce	3 oz/a	A		100 a	100 a	100 a	100 a
	atrazine	1 pt/a	A					
	Roundup PowerMax	22 fl oz/a	A					
	AMS	2.5 lb/a	A					
	Roundup PowerMax	22 fl oz/a	C					
	AMS	2.5 lb/a	C					
4	Fierce	3.75 oz/a	A		100 a	100 a	100 a	100 a
	Roundup PowerMax	22 fl oz/a	A					
	Roundup PowerMax	22 fl oz/a	C					
	AMS	2.5 lb/a	C					
5	Fierce	4.5 oz/a	A		97 abc	100 a	99 a	100 a
	Roundup PowerMax	22 fl oz/a	A					
	Roundup PowerMax	22 fl oz/a	C					
	AMS	2.5 lb/a	C					
6	Harness Xtra 5.6	1.4 qt/a	B		95 bc	100 a	95 b	100 a
	Roundup PowerMax	22 fl oz/a	B					
	AMS	2.5 lb/a	B					
	Roundup PowerMax	22 fl oz/a	C					
	AMS	2.5 lb/a	C					
7	Lexar	2.25 qt/a	B		100 a	100 a	100 a	100 a
	Roundup PowerMax	22 fl oz/a	B					
	AMS	2.5 lb/a	B					
	Roundup PowerMax	22 fl oz/a	C					
	AMS	2.5 lb/a	C					
8	Corvus	3 fl oz/a	B		98 ab	100 a	99 a	100 a
	atrazine	1 pt/a	B					
	Roundup PowerMax	22 fl oz/a	B					
	AMS	2.5 lb/a	B					
	Roundup PowerMax	22 fl oz/a	C					
	AMS	2.5 lb/a	C					
9	Verdict	13 fl oz/a	B		100 a	100 a	100 a	100 a
	Roundup PowerMax	22 fl oz/a	B					
	AMS	2.5 lb/a	B					
	Roundup PowerMax	22 fl oz/a	C					
	AMS	2.5 lb/a	C					
10	Nontreated				0 d	0 b	0 c	0 e
11	Corvus	5.6 fl oz/a	B		100 a	100 a	100 a	100 a
	atrazine	1 qt/a	B					
	COC	1 % v/v	B					
12	Corvus	5.6 fl oz/a	B		100 a	100 a	100 a	100 a
	atrazine	1 qt/a	B					
	Roundup PowerMax	22 fl oz/a	B					
	AMS	8.5 lb/100 gal	B					
13	Corvus	5.6 fl oz/a	B		100 a	100 a	100 a	100 a
	atrazine	1 qt/a	B					
	Ignite 280	22 fl oz/a	B					
	AMS	8.5 lb/100 gal	B					

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Pest Name Rating Date Rating Type Rating Unit Plant-Eval Interval				Velvetleaf May-30-2011 CONTROL 100% 25 DP-1	Velvetleaf Jun-24-2011 CONTROL % 50 DP-1	Velvetleaf Jul-8-2011 CONTROL % 64 DP-1	Velvetleaf Aug-9-2011 CONTROL % 96 DP-1	Velvetleaf Sep-8-2011 CONTROL % 126 DP-1
Trt No.	Treatment Name	Rate	Appl Unit Code					
14	Capreno	3 fl oz/a	B	99 a	100 a	99 a	97 bcd	97 ab
	COC	1 % v/v	B					
	AMS	8.5 lb/100 gal	B					
15	Capreno	3 fl oz/a	B	100 a	100 a	100 a	99 ab	100 a
	atrazine	1 qt/a	B					
	COC	1 % v/v	B					
	AMS	8.5 lb/100 gal	B					
16	Capreno	4 fl oz/a	B	98 ab	100 a	99 a	100 a	95 b
	COC	1 % v/v	B					
	AMS	8.5 lb/100 gal	B					
17	Capreno	5 fl oz/a	B	98 ab	100 a	98 a	98 abc	98 ab
	COC	1 % v/v	B					
	AMS	8.5 lb/100 gal	B					
18	Capreno	3 fl oz/a	B	100 a	100 a	97 ab	97 cd	97 ab
	Ignite 280	22 fl oz/a	B					
	AMS	8.5 lb/100 gal	B					
19	Capreno	3 fl oz/a	B	100 a	100 a	99 a	97 bcd	97 ab
	Ignite 280	22 fl oz/a	B					
	Harness	2.1 pt/a	B					
	AMS	8.5 lb/100 gal	B					
20	Capreno	3 fl oz/a	B	99 a	100 a	99 a	98 abc	95 b
	Roundup PowerMax	22 fl oz/a	B					
	AMS	8.5 lb/100 gal	B					
21	Capreno	3 fl oz/a	B	100 a	100 a	99 a	97 bcd	98 ab
	Roundup PowerMax	22 fl oz/a	B					
	Harness	2.1 pt/a	B					
	AMS	8.5 lb/100 gal	B					
22	Halex GT	3.8 pt/a	B	99 a	100 a	98 a	100 a	98 ab
	Activator 90	0.25 % v/v	B					
	AMS	8.5 lb/100 gal	B					
23	Harness	2.1 pt/a	B	94 c	100 a	95 b	95 d	88 c
	Roundup PowerMax	22 fl oz/a	B					
24	Verdict	16 fl oz/a	B	100 a	100 a	98 a	99 ab	100 a
	MSO	1 % v/v	B					
	Roundup PowerMax	22 fl oz/a	B					
	AMS	8.5 lb/100 gal	B					
LSD (P=.10)				3.5	0.0	3.3	2.5	4.3

Means followed by same letter do not significantly differ (P=.10, LSD)

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

Untreated treatment(s) 1 excluded from analysis.

University of Wisconsin-Madison

Pest Name Rating Date Rating Type Rating Unit Plant-Eval Interval				Common ragweed May-30-2011 CONTROL 100% 25 DP-1	Hogweed Jun-24-2011 CONTROL % 50 DP-1	Hogweed Jul-8-2011 CONTROL % 64 DP-1	Hogweed Aug-9-2011 CONTROL % 96 DP-1	Hogweed Sep-8-2011 CONTROL % 126 DP-1
Trt No.	Treatment Name	Rate	Appl Unit					
1	Nontreated			0	0	0	0	0
2	Fierce	3 oz/a	A	100 a	100 a	100 a	100 a	100 a
	Roundup PowerMax	22 fl oz/a	A					
	AMS	2.5 lb/a	A					
	Roundup PowerMax	22 fl oz/a	C					
	AMS	2.5 lb/a	C					
3	Fierce	3 oz/a	A	100 a	100 a	100 a	100 a	100 a
	atrazine	1 pt/a	A					
	Roundup PowerMax	22 fl oz/a	A					
	AMS	2.5 lb/a	A					
	Roundup PowerMax	22 fl oz/a	C					
	AMS	2.5 lb/a	C					
4	Fierce	3.75 oz/a	A	100 a	100 a	100 a	100 a	100 a
	Roundup PowerMax	22 fl oz/a	A					
	Roundup PowerMax	22 fl oz/a	C					
	AMS	2.5 lb/a	C					
5	Fierce	4.5 oz/a	A	100 a	100 a	100 a	100 a	100 a
	Roundup PowerMax	22 fl oz/a	A					
	Roundup PowerMax	22 fl oz/a	C					
	AMS	2.5 lb/a	C					
6	Harness Xtra 5.6	1.4 qt/a	B	100 a	100 a	100 a	100 a	100 a
	Roundup PowerMax	22 fl oz/a	B					
	AMS	2.5 lb/a	B					
	Roundup PowerMax	22 fl oz/a	C					
	AMS	2.5 lb/a	C					
7	Lexar	2.25 qt/a	B	100 a	100 a	100 a	100 a	100 a
	Roundup PowerMax	22 fl oz/a	B					
	AMS	2.5 lb/a	B					
	Roundup PowerMax	22 fl oz/a	C					
	AMS	2.5 lb/a	C					
8	Corvus	3 fl oz/a	B	99 b	100 a	100 a	100 a	100 a
	atrazine	1 pt/a	B					
	Roundup PowerMax	22 fl oz/a	B					
	AMS	2.5 lb/a	B					
	Roundup PowerMax	22 fl oz/a	C					
	AMS	2.5 lb/a	C					
9	Verdict	13 fl oz/a	B	100 a	100 a	100 a	100 a	100 a
	Roundup PowerMax	22 fl oz/a	B					
	AMS	2.5 lb/a	B					
	Roundup PowerMax	22 fl oz/a	C					
	AMS	2.5 lb/a	C					
10	Nontreated			0 c	0 b	0 b	0 d	0 c
11	Corvus	5.6 fl oz/a	B	100 a	100 a	100 a	100 a	100 a
	atrazine	1 qt/a	B					
	COC	1 % v/v	B					
12	Corvus	5.6 fl oz/a	B	100 a	100 a	100 a	100 a	100 a
	atrazine	1 qt/a	B					
	Roundup PowerMax	22 fl oz/a	B					
	AMS	8.5 lb/100 gal	B					
13	Corvus	5.6 fl oz/a	B	100 a	100 a	100 a	100 a	100 a
	atrazine	1 qt/a	B					
	Ignite 280	22 fl oz/a	B					
	AMS	8.5 lb/100 gal	B					

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Pest Name Rating Date Rating Type Rating Unit Plant-Eval Interval				Common ragweed May-30-2011 CONTROL 100% 25 DP-1	Hogweed Jun-24-2011 CONTROL % 50 DP-1	Hogweed Jul-8-2011 CONTROL % 64 DP-1	Hogweed Aug-9-2011 CONTROL % 96 DP-1	Hogweed Sep-8-2011 CONTROL % 126 DP-1	
Trt	Treatment	Rate	Appl						
No.	Name	Rate	Unit	Code	11	21	26	30	34
14	Capreno	3 fl oz/a	B		100 a	100 a	100 a	100 a	100 a
	COC	1 % v/v	B						
	AMS	8.5 lb/100 gal	B						
15	Capreno	3 fl oz/a	B		100 a	100 a	100 a	100 a	100 a
	atrazine	1 qt/a	B						
	COC	1 % v/v	B						
	AMS	8.5 lb/100 gal	B						
16	Capreno	4 fl oz/a	B		100 a	100 a	100 a	100 a	99 a
	COC	1 % v/v	B						
	AMS	8.5 lb/100 gal	B						
17	Capreno	5 fl oz/a	B		100 a	100 a	100 a	100 a	100 a
	COC	1 % v/v	B						
	AMS	8.5 lb/100 gal	B						
18	Capreno	3 fl oz/a	B		100 a	100 a	100 a	99 b	99 a
	Ignite 280	22 fl oz/a	B						
	AMS	8.5 lb/100 gal	B						
19	Capreno	3 fl oz/a	B		100 a	100 a	100 a	100 a	100 a
	Ignite 280	22 fl oz/a	B						
	Harness	2.1 pt/a	B						
	AMS	8.5 lb/100 gal	B						
20	Capreno	3 fl oz/a	B		100 a	100 a	100 a	98 c	93 b
	Roundup PowerMax	22 fl oz/a	B						
	AMS	8.5 lb/100 gal	B						
21	Capreno	3 fl oz/a	B		100 a	100 a	100 a	100 a	100 a
	Roundup PowerMax	22 fl oz/a	B						
	Harness	2.1 pt/a	B						
	AMS	8.5 lb/100 gal	B						
22	Halex GT	3.8 pt/a	B		100 a	100 a	100 a	100 a	100 a
	Activator 90	0.25 % v/v	B						
	AMS	8.5 lb/100 gal	B						
23	Harness	2.1 pt/a	B		100 a	100 a	100 a	100 ab	100 a
	Roundup PowerMax	22 fl oz/a	B						
24	Verdict	16 fl oz/a	B		100 a	100 a	100 a	100 a	99 a
	MSO	1 % v/v	B						
	Roundup PowerMax	22 fl oz/a	B						
	AMS	8.5 lb/100 gal	B						
LSD (P=.10)					0.4	0.0	0.0	0.9	1.6

Means followed by same letter do not significantly differ (P=.10, LSD)

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

Untreated treatment(s) 1 excluded from analysis.

University of Wisconsin-Madison

Rating Date Rating Type Rating Unit Plant-Eval Interval Crop Name				May-31-2011 Stand Count #/25 ft 26 DP-1 Dent corn	May-31-2011 Stand Count #/25 ft 26 DP-1 Dent corn	May-30-2011 PHYCHL 100% 25 DP-1 Dent corn	May-30-2011 PHYDEF 100% 25 DP-1 Dent corn	Jun-6-2011 Stand Count #/25 ft 32 DP-1 Dent corn	Jun-6-2011 Stand Count #/25 ft 32 DP-1 Dent corn
Trt No.	Treatment Name	Rate	Appl Unit Code	4	5	6	7	12	13
1	Nontreated			36 a	37 a	0 a	0 a	41 a	39 a
2	Fierce	3 oz/a	A	39 a	39 a	0 a	1 a	43 a	41 a
	Roundup PowerMax	22 fl oz/a	A						
	AMS	2.5 lb/a	A						
	Roundup PowerMax	22 fl oz/a	C						
	AMS	2.5 lb/a	C						
3	Fierce	3 oz/a	A	38 a	39 a	0 a	0 a	43 a	42 a
	atrazine	1 pt/a	A						
	Roundup PowerMax	22 fl oz/a	A						
	AMS	2.5 lb/a	A						
	Roundup PowerMax	22 fl oz/a	C						
	AMS	2.5 lb/a	C						
4	Fierce	3.75 oz/a	A	42 a	40 a	0 a	1 a	43 a	43 a
	Roundup PowerMax	22 fl oz/a	A						
	Roundup PowerMax	22 fl oz/a	C						
	AMS	2.5 lb/a	C						
5	Fierce	4.5 oz/a	A	40 a	40 a	0 a	1 a	43 a	42 a
	Roundup PowerMax	22 fl oz/a	A						
	Roundup PowerMax	22 fl oz/a	C						
	AMS	2.5 lb/a	C						
6	Harness Xtra 5.6	1.4 qt/a	B	39 a	39 a	0 a	1 a	43 a	42 a
	Roundup PowerMax	22 fl oz/a	B						
	AMS	2.5 lb/a	B						
	Roundup PowerMax	22 fl oz/a	C						
	AMS	2.5 lb/a	C						
7	Lexar	2.25 qt/a	B	39 a	39 a	0 a	0 a	42 a	43 a
	Roundup PowerMax	22 fl oz/a	B						
	AMS	2.5 lb/a	B						
	Roundup PowerMax	22 fl oz/a	C						
	AMS	2.5 lb/a	C						
8	Corvus	3 fl oz/a	B	36 a	39 a	0 a	0 a	42 a	39 a
	atrazine	1 pt/a	B						
	Roundup PowerMax	22 fl oz/a	B						
	AMS	2.5 lb/a	B						
	Roundup PowerMax	22 fl oz/a	C						
	AMS	2.5 lb/a	C						
9	Verdict	13 fl oz/a	B	39 a	39 a	0 a	1 a	43 a	43 a
	Roundup PowerMax	22 fl oz/a	B						
	AMS	2.5 lb/a	B						
	Roundup PowerMax	22 fl oz/a	C						
	AMS	2.5 lb/a	C						
10	Nontreated			39 a	38 a	0 a	0 a	41 a	40 a
11	Corvus	5.6 fl oz/a	B	38 a	37 a	0 a	0 a	42 a	41 a
	atrazine	1 qt/a	B						
	COC	1 % v/v	B						
12	Corvus	5.6 fl oz/a	B	43 a	37 a	1 a	1 a	44 a	41 a
	atrazine	1 qt/a	B						
	Roundup PowerMax	22 fl oz/a	B						
	AMS	8.5 lb/100 gal	B						
13	Corvus	5.6 fl oz/a	B	40 a	39 a	0 a	0 a	43 a	43 a
	atrazine	1 qt/a	B						
	Ignite 280	22 fl oz/a	B						
	AMS	8.5 lb/100 gal	B						

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Rating Date Rating Type Rating Unit Plant-Eval Interval Crop Name					Jun-6-2011 PHYDEF % 32 DP-1 Dent corn	Jun-6-2011 PHYDEF % 32 DP-1 Dent corn	Jun-24-2011 HEIGHT (cm) LEFT 50 DP-1 Dent corn	Jun-24-2011 HEIGHT (cm) RIGHT 50 DP-1 Dent corn	Jul-8-2011 PHYGEN % 64 DP-1 Dent corn	Oct-21-2011 Moisture % 169 DP-1 ZEAMD
Trt No.	Treatment Name	Rate	Unit	Appl Code	14	15	16	17	22	35
1	Nontreated				1 a	1 a	38 a	37 a	0 a	17 a
2	Fierce	3 oz/a	A		0 a	0 a	35 a	31 a	0 a	18 a
	Roundup PowerMax	22 fl oz/a	A							
	AMS	2.5 lb/a	A							
	Roundup PowerMax	22 fl oz/a	C							
	AMS	2.5 lb/a	C							
3	Fierce	3 oz/a	A		1 a	1 a	32 a	33 a	0 a	20 a
	atrazine	1 pt/a	A							
	Roundup PowerMax	22 fl oz/a	A							
	AMS	2.5 lb/a	A							
	Roundup PowerMax	22 fl oz/a	C							
	AMS	2.5 lb/a	C							
4	Fierce	3.75 oz/a	A		1 a	0 a	37 a	36 a	0 a	18 a
	Roundup PowerMax	22 fl oz/a	A							
	Roundup PowerMax	22 fl oz/a	C							
	AMS	2.5 lb/a	C							
5	Fierce	4.5 oz/a	A		0 a	1 a	34 a	50 a	0 a	20 a
	Roundup PowerMax	22 fl oz/a	A							
	Roundup PowerMax	22 fl oz/a	C							
	AMS	2.5 lb/a	C							
6	Harness Xtra 5.6	1.4 qt/a	B		0 a	1 a	34 a	36 a	0 a	18 a
	Roundup PowerMax	22 fl oz/a	B							
	AMS	2.5 lb/a	B							
	Roundup PowerMax	22 fl oz/a	C							
	AMS	2.5 lb/a	C							
7	Lexar	2.25 qt/a	B		1 a	1 a	33 a	32 a	0 a	21 a
	Roundup PowerMax	22 fl oz/a	B							
	AMS	2.5 lb/a	B							
	Roundup PowerMax	22 fl oz/a	C							
	AMS	2.5 lb/a	C							
8	Corvus	3 fl oz/a	B		0 a	0 a	35 a	36 a	0 a	20 a
	atrazine	1 pt/a	B							
	Roundup PowerMax	22 fl oz/a	B							
	AMS	2.5 lb/a	B							
	Roundup PowerMax	22 fl oz/a	C							
	AMS	2.5 lb/a	C							
9	Verdict	13 fl oz/a	B		1 a	1 a	35 a	33 a	0 a	18 a
	Roundup PowerMax	22 fl oz/a	B							
	AMS	2.5 lb/a	B							
	Roundup PowerMax	22 fl oz/a	C							
	AMS	2.5 lb/a	C							
10	Nontreated				0 a	0 a			0 a	19 a
11	Corvus	5.6 fl oz/a	B		1 a	0 a			0 a	20 a
	atrazine	1 qt/a	B							
	COC	1 % v/v	B							
12	Corvus	5.6 fl oz/a	B		0 a	0 a			0 a	20 a
	atrazine	1 qt/a	B							
	Roundup PowerMax	22 fl oz/a	B							
	AMS	8.5 lb/100 gal	B							
13	Corvus	5.6 fl oz/a	B		0 a	0 a			0 a	19 a
	atrazine	1 qt/a	B							
	Ignite 280	22 fl oz/a	B							
	AMS	8.5 lb/100 gal	B							

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Rating Date Rating Type Rating Unit Plant-Eval Interval Crop Name					Oct-21-2011 Yield lb/plot 169 DP-1 ZEAMD	Oct-21-2011 YIELD BU 169 DP-1 ZEAMD
Trt No.	Treatment Name	Rate	Unit	Appl Code	36	37
1	Nontreated				22 f	134.4 e
2	Fierce	3 oz/a	A		33 a-e	196.6 a-d
	Roundup PowerMax	22 fl oz/a	A			
	AMS	2.5 lb/a	A			
	Roundup PowerMax	22 fl oz/a	C			
	AMS	2.5 lb/a	C			
3	Fierce	3 oz/a	A		34 a-e	197.8 a-d
	atrazine	1 pt/a	A			
	Roundup PowerMax	22 fl oz/a	A			
	AMS	2.5 lb/a	A			
	Roundup PowerMax	22 fl oz/a	C			
	AMS	2.5 lb/a	C			
4	Fierce	3.75 oz/a	A		32 b-e	192.4 a-d
	Roundup PowerMax	22 fl oz/a	A			
	Roundup PowerMax	22 fl oz/a	C			
	AMS	2.5 lb/a	C			
5	Fierce	4.5 oz/a	A		35 a-d	202.8 abc
	Roundup PowerMax	22 fl oz/a	A			
	Roundup PowerMax	22 fl oz/a	C			
	AMS	2.5 lb/a	C			
6	Harness Xtra 5.6	1.4 qt/a	B		32 a-e	194.5 a-d
	Roundup PowerMax	22 fl oz/a	B			
	AMS	2.5 lb/a	B			
	Roundup PowerMax	22 fl oz/a	C			
	AMS	2.5 lb/a	C			
7	Lexar	2.25 qt/a	B		38 ab	220.1 ab
	Roundup PowerMax	22 fl oz/a	B			
	AMS	2.5 lb/a	B			
	Roundup PowerMax	22 fl oz/a	C			
	AMS	2.5 lb/a	C			
8	Corvus	3 fl oz/a	B		38 abc	223.4 a
	atrazine	1 pt/a	B			
	Roundup PowerMax	22 fl oz/a	B			
	AMS	2.5 lb/a	B			
	Roundup PowerMax	22 fl oz/a	C			
	AMS	2.5 lb/a	C			
9	Verdict	13 fl oz/a	B		34 a-e	204.0 abc
	Roundup PowerMax	22 fl oz/a	B			
	AMS	2.5 lb/a	B			
	Roundup PowerMax	22 fl oz/a	C			
	AMS	2.5 lb/a	C			
10	Nontreated				24 f	140.8 e
11	Corvus	5.6 fl oz/a	B		35 abc	205.6 ab
	atrazine	1 qt/a	B			
	COC	1 % v/v	B			
12	Corvus	5.6 fl oz/a	B		36 abc	211.3 ab
	atrazine	1 qt/a	B			
	Roundup PowerMax	22 fl oz/a	B			
	AMS	8.5 lb/100 gal	B			
13	Corvus	5.6 fl oz/a	B		32 a-e	190.2 a-d
	atrazine	1 qt/a	B			
	Ignite 280	22 fl oz/a	B			
	AMS	8.5 lb/100 gal	B			

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Rating Date Rating Type Rating Unit Plant-Eval Interval Crop Name					May-31-2011 Stand Count #/25 ft 26 DP-1 Dent corn	May-31-2011 Stand Count #/25 ft 26 DP-1 Dent corn	May-30-2011 PHYCHL 100% 25 DP-1 Dent corn	May-30-2011 PHYDEF 100% 25 DP-1 Dent corn	Jun-6-2011 Stand Count #/25 ft 32 DP-1 Dent corn	Jun-6-2011 Stand Count #/25 ft 32 DP-1 Dent corn
Trt	Treatment	Rate	Unit	Appl						
No.	Name	Rate	Unit	Code	4	5	6	7	12	13
14	Capreno	3 fl oz/a	B		37 a	38 a	0 a	0 a	40 a	42 a
	COC	1 % v/v	B							
	AMS	8.5 lb/100 gal	B							
15	Capreno	3 fl oz/a	B		32 a	37 a	0 a	0 a	38 a	38 a
	atrazine	1 qt/a	B							
	COC	1 % v/v	B							
	AMS	8.5 lb/100 gal	B							
16	Capreno	4 fl oz/a	B		37 a	40 a	0 a	0 a	43 a	42 a
	COC	1 % v/v	B							
	AMS	8.5 lb/100 gal	B							
17	Capreno	5 fl oz/a	B		35 a	35 a	0 a	2 a	40 a	40 a
	COC	1 % v/v	B							
	AMS	8.5 lb/100 gal	B							
18	Capreno	3 fl oz/a	B		38 a	36 a	0 a	0 a	41 a	41 a
	Ignite 280	22 fl oz/a	B							
	AMS	8.5 lb/100 gal	B							
19	Capreno	3 fl oz/a	B		37 a	38 a	1 a	0 a	40 a	41 a
	Ignite 280	22 fl oz/a	B							
	Harness	2.1 pt/a	B							
	AMS	8.5 lb/100 gal	B							
20	Capreno	3 fl oz/a	B		41 a	39 a	0 a	1 a	43 a	45 a
	Roundup PowerMax	22 fl oz/a	B							
	AMS	8.5 lb/100 gal	B							
21	Capreno	3 fl oz/a	B		37 a	40 a	1 a	0 a	40 a	42 a
	Roundup PowerMax	22 fl oz/a	B							
	Harness	2.1 pt/a	B							
	AMS	8.5 lb/100 gal	B							
22	Halex GT	3.8 pt/a	B		40 a	36 a	1 a	0 a	42 a	41 a
	Activator 90	0.25 % v/v	B							
	AMS	8.5 lb/100 gal	B							
23	Harness	2.1 pt/a	B		38 a	37 a	0 a	0 a	43 a	41 a
	Roundup PowerMax	22 fl oz/a	B							
24	Verdict	16 fl oz/a	B		37 a	36 a	1 a	1 a	39 a	41 a
	MSO	1 % v/v	B							
	Roundup PowerMax	22 fl oz/a	B							
	AMS	8.5 lb/100 gal	B							
LSD (P=.10)					4.5	4.3	0.8	1.0	3.6	3.7

Means followed by same letter do not significantly differ (P=.10, LSD)

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

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Rating Date Rating Type Rating Unit Plant-Eval Interval Crop Name				Jun-6-2011 PHYDEF % 32 DP-1 Dent corn	Jun-6-2011 PHYDEF % 32 DP-1 Dent corn	Jun-24-2011 HEIGHT (cm) LEFT 50 DP-1 Dent corn	Jun-24-2011 HEIGHT (cm) RIGHT 50 DP-1 Dent corn	Jul-8-2011 PHYGEN % 64 DP-1 Dent corn	Oct-21-2011 Moisture % 169 DP-1 Dent Corn
Trt	Treatment	Rate	Appl						
No.	Name	Unit	Code	14	15	16	17	22	35
14	Capreno	3 fl oz/a	B	0 a	1 a			0 a	19 a
	COC	1 % v/v	B						
	AMS	8.5 lb/100 gal	B						
15	Capreno	3 fl oz/a	B	0 a	0 a			0 a	19 a
	atrazine	1 qt/a	B						
	COC	1 % v/v	B						
	AMS	8.5 lb/100 gal	B						
16	Capreno	4 fl oz/a	B	0 a	0 a			0 a	22 a
	COC	1 % v/v	B						
	AMS	8.5 lb/100 gal	B						
17	Capreno	5 fl oz/a	B	1 a	0 a			0 a	18 a
	COC	1 % v/v	B						
	AMS	8.5 lb/100 gal	B						
18	Capreno	3 fl oz/a	B	1 a	1 a			0 a	19 a
	Ignite 280	22 fl oz/a	B						
	AMS	8.5 lb/100 gal	B						
19	Capreno	3 fl oz/a	B	0 a	0 a			0 a	18 a
	Ignite 280	22 fl oz/a	B						
	Harness	2.1 pt/a	B						
	AMS	8.5 lb/100 gal	B						
20	Capreno	3 fl oz/a	B	0 a	0 a			0 a	18 a
	Roundup PowerMax	22 fl oz/a	B						
	AMS	8.5 lb/100 gal	B						
21	Capreno	3 fl oz/a	B	0 a	0 a			0 a	20 a
	Roundup PowerMax	22 fl oz/a	B						
	Harness	2.1 pt/a	B						
	AMS	8.5 lb/100 gal	B						
22	Halex GT	3.8 pt/a	B	1 a	1 a			0 a	19 a
	Activator 90	0.25 % v/v	B						
	AMS	8.5 lb/100 gal	B						
23	Harness	2.1 pt/a	B	0 a	0 a			0 a	20 a
	Roundup PowerMax	22 fl oz/a	B						
24	Verdict	16 fl oz/a	B	1 a	0 a			0 a	19 a
	MSO	1 % v/v	B						
	Roundup PowerMax	22 fl oz/a	B						
	AMS	8.5 lb/100 gal	B						
LSD (P=.10)				0.9	0.6	5.5	13.6	0.0	2.8

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Rating Date Rating Type Rating Unit Plant-Eval Interval Crop Name				Oct-21-2011 Yield lb/plot 169 DP-1 Dent Corn	Oct-21-2011 YIELD BU 169 DP-1 Dent Corn
Trt No.	Treatment Name	Rate	Unit	Appl Code	
				36	37
14	Capreno	3 fl oz/a	B	35 abc	211.2 ab
	COC	1 % v/v	B		
	AMS	8.5 lb/100 gal	B		
15	Capreno	3 fl oz/a	B	33 a-e	196.1 a-d
	atrazine	1 qt/a	B		
	COC	1 % v/v	B		
	AMS	8.5 lb/100 gal	B		
16	Capreno	4 fl oz/a	B	39 a	221.3 ab
	COC	1 % v/v	B		
	AMS	8.5 lb/100 gal	B		
17	Capreno	5 fl oz/a	B	33 a-e	197.0 a-d
	COC	1 % v/v	B		
	AMS	8.5 lb/100 gal	B		
18	Capreno	3 fl oz/a	B	33 a-e	199.4 a-d
	Ignite 280	22 fl oz/a	B		
	AMS	8.5 lb/100 gal	B		
19	Capreno	3 fl oz/a	B	28 ef	164.5 de
	Ignite 280	22 fl oz/a	B		
	Harness	2.1 pt/a	B		
	AMS	8.5 lb/100 gal	B		
20	Capreno	3 fl oz/a	B	28 def	168.9 cde
	Roundup PowerMax	22 fl oz/a	B		
	AMS	8.5 lb/100 gal	B		
21	Capreno	3 fl oz/a	B	34 a-d	200.0 a-d
	Roundup PowerMax	22 fl oz/a	B		
	Harness	2.1 pt/a	B		
	AMS	8.5 lb/100 gal	B		
22	Halex GT	3.8 pt/a	B	32 a-e	193.3 a-d
	Activator 90	0.25 % v/v	B		
	AMS	8.5 lb/100 gal	B		
23	Harness	2.1 pt/a	B	35 abc	205.9 ab
	Roundup PowerMax	22 fl oz/a	B		
24	Verdict	16 fl oz/a	B	31 cde	187.0 bcd
	MSO	1 % v/v	B		
	Roundup PowerMax	22 fl oz/a	B		
	AMS	8.5 lb/100 gal	B		
LSD (P=.10)				6.6	35.82