

2011 Corvus, Balance Flexx, Capreno / Field Corn / Burndown / Efficacy, Tolerance

Trial ID: 11 BAY BLH Burndown Protocol ID: 11 BAY BLH Burndown
Location: Concord, NE
Project ID: HP11NARBLH Investigator: Stevan Knezevic

General Trial Information

Investigator: Stevan Knezevic

Trial Location

City: Concord
State/Prov.: NE
Postal Code: 68728
Country: USA

Conclusions:

All products when applied at label rates resulted in excellent control. There were no major differences between these treatments.

Personnel

Investigator: Stevan Knezevic

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: Pioneer 35F40 Description: RR LL
BBCH Scale: BCOR Planting Date: 06-07-2011
Planting Method: SEEDED seeded Rate, Unit: 24503 s/a
Depth, Unit: 2 in
Row Spacing, Unit: 30 in Harvest Date: 10-19-2011 Harvest Equipment: Hand, Almaco threshe
Harvested Width, Unit: 5 ft Harvested Length, Unit: 13.62 ft
% Standard Moisture: 5.0 Moisture Meter: Dickey John GAC
Weighing Equipment: Ohaus scale

Pest Description

Pest 1 Type: W Code: THLSS Thlaspi sp.
Common Name: Pennycress
Pest 2 Type: W Code: SETVI Setaria viridis
Common Name: Green foxtail
Pest 3 Type: W Code: AMASS Amaranthus sp.
Common Name: Amaranth
Description: waterhemp and redroot pigweed
Pest 4 Type: W Code: ABUTH Abutilon theophrasti
Common Name: Velvetleaf

Site and Design

Plot Width, Unit: 10 FT Site Type: FIELD field
Plot Length, Unit: 30 FT
Plot Area, Unit: 300 FT2 Tillage Type: NOTILL no-till
Replications: 3 Study Design: RACOB L Randomized Complete Block (RCB)

Soil Description

% Sand: 10 % OM: 2.8 Texture: SICL silty clay loam
% Silt: 58 pH: 6.3
% Clay: 32 CEC: 19.7 Fert. Level: E excellent
Analyzed By:
Midwest Labs

Application Description

	A
Application Date:	05-17-2011
Time of Day:	9:00 am
Application Method:	spray
Application Timing:	BURNDOWN
Application Placement:	foliar
Applied By:	js
Air Temperature, Unit:	59 F
% Relative Humidity:	49
Wind Velocity, Unit:	3 mph
Wind Direction:	S
Dew Presence (Y/N):	N no
Soil Temperature, Unit:	50 F
Soil Moisture:	SLIWET
% Cloud Cover:	20

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	ZEAMX BCOR

Pest Stage At Each Application

	A
Pest 1 Code, Type, Scale:	THLSS W
Height, Unit:	2.5 in
Height Minimum, Maximum:	1 4
Density, Unit:	10 m2
Pest 2 Code, Type, Scale:	SETVI W
Pest 3 Code, Type, Scale:	AMASS W
Pest 4 Code, Type, Scale:	ABUTH W

Application Equipment

	A
Appl. Equipment:	Backpack
Operating Pressure, Unit:	20 PSI
Nozzle Type:	Turbo Tee
Nozzle Size:	11003
Nozzle Spacing, Unit:	20 in
Boom Length, Unit:	10 ft
Boom Height, Unit:	15 in
Ground Speed, Unit:	2.7 mph
Carrier:	WATER
Spray Volume, Unit:	20 gal/ac
Mix Size, Unit:	1.8 liters
Propellant:	COMCO2

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Location: Concord, NE										
Project ID: HP11NARBLH Investigator: Stevan Knezevic										
Description	Pennycress		Corn, field		Green foxtail		Green foxtail		AMASS	
Rating Date	06-07-2011		07-04-2011		07-04-2011		08-29-2011		07-04-2011	
Rating Type	Control		Injury		Control		Control		Control	
Rating Unit	Percent		Percent		Percent		Percent		Percent	
Days After First/Last Applic.	21 21		48 48		48 48		104 104		48 48	
Trt-Eval Interval	21 DA-A		48 DA-A		48 DA-A		104 DA-A		48 DA-A	
Plant-Eval Interval	0 DP-1		27 DP-1		27 DP-1		83 DP-1		27 DP-1	
Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Growth Unit	Appl Stage	Code
1	Corvus atrazine COC	479 ga/l 4 lb/gal	SC L		5.6 oz/a 1 qt/a	196 g a/ha 1120 g a/ha			Burndown A Burndown A Burndown A	99.0 a 0.0 a 95.3 a 91.3 a 96.3 ab
2	Corvus atrazine Roundup PowerMAX AMS	479 ga/l 4 lb/gal 5.5 lb/gal 21.5 %	SC L SL GR		5.6 oz/a 1 qt/a 22 oz/a 8.5 lb/100 gal	196 g a/ha 1120 g a/ha			Burndown A Burndown A Burndown A Burndown A	99.0 a 0.0 a 96.3 a 85.0 a 99.0 a
3	Corvus atrazine Ignite AMS	479 ga/l 4 lb/gal 280 ga/l 21.5 %	SC L SL GR		5.6 oz/a 1 qt/a 22 oz/a 8.5 lb/100 gal	196 g a/ha 1120 g a/ha			Burndown A Burndown A Burndown A Burndown A	99.0 a 0.0 a 97.0 a 95.0 a 98.3 a
4	Lumax Touchdown Total AMS	3.948 lb/gal 5 lb/gal 21.5 %	SL SL GR		2.5 qt/a 24 oz/a 8.5 lb/100 gal	2770 g a/ha 1050 g a/ha			Burndown A Burndown A Burndown A	99.0 a 0.0 a 98.3 a 96.0 a 99.0 a
5	Lexar Touchdown Total AMS	3.704 lb/gal 5 lb/gal 21.5 %	SL SL GR		3 qt/a 24 oz/a 8.5 lb/100 gal	3100 g a/ha 1050 g a/ha			Burndown A Burndown A Burndown A	99.0 a 0.0 a 92.3 a 88.0 a 99.0 a
6	Verdict atrazine Roundup PowerMAX AMS	5.57 lb/gal 4 lb/gal 5.5 lb/gal 21.5 %	EC L SL GR		15 oz/a 1 qt/a 22 oz/a 8.5 lb/100 gal	730 g a/ha 1120 g a/ha			Burndown A Burndown A Burndown A Burndown A	99.0 a 0.0 a 95.3 a 88.3 a 94.0 b
LSD (P=.05)										
Standard Deviation										
CV										
Grand Mean										
Replicate F										
Replicate Prob(F)										
Treatment F										
Treatment Prob(F)										

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Description		AMASS		Velvetleaf		Velvetleaf		Corn, field		Corn, field				
Rating Date		08-29-2011		07-04-2011		08-29-2011		10-19-2011		10-19-2011				
Rating Type		Control		Control		Control		COUNT		Moisture				
Rating Unit		Percent		Percent		Percent		plants/A		%				
Days After First/Last Applic.		104 104		48 48		104 104		155 155		155 155				
Trt-Eval Interval		104 DA-A		48 DA-A		104 DA-A		155 DA-A		155 DA-A				
Plant-Eval Interval		83 DP-1		27 DP-1		83 DP-1		134 DP-1		134 DP-1				
Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
1	Corvus atrazine COC	479 ga/l 4 lb/gal	l	SC L	5.6 oz/a 1 qt/a	196 g a/ha 1120 g a/ha		Burndown A Burndown A Burndown A		97.7 a	99.0 a	99.0 a	25151.7 a	15.47 a
2	Corvus atrazine Roundup PowerMAX AMS	479 ga/l 4 lb/gal 5.5 lb/gal	l	SC L SL	5.6 oz/a 1 qt/a 22 oz/a	196 g a/ha 1120 g a/ha		Burndown A Burndown A Burndown A Burndown A		99.0 a	99.0 a	97.7 a	25365.0 a	14.67 c
3	Corvus atrazine Ignite AMS	479 ga/l 4 lb/gal 280 ga/l	l	SC L SL	5.6 oz/a 1 qt/a 22 oz/a	196 g a/ha 1120 g a/ha		Burndown A Burndown A Burndown A Burndown A		99.0 a	99.0 a	99.0 a	24938.7 a	15.40 ab
4	Lumax Touchdown Total AMS	3.948 lb/gal 5 lb/gal	gal	SL SL	2.5 qt/a 24 oz/a	2770 g a/ha 1050 g a/ha		Burndown A Burndown A Burndown A		99.0 a	99.0 a	99.0 a	24512.7 a	14.90 abc
5	Lexar Touchdown Total AMS	3.704 lb/gal 5 lb/gal	gal	SL SL	3 qt/a 24 oz/a	3100 g a/ha 1050 g a/ha		Burndown A Burndown A Burndown A		97.7 a	99.0 a	99.0 a	24512.3 a	14.83 bc
6	Verdict atrazine Roundup PowerMAX AMS	5.57 lb/gal 4 lb/gal 5.5 lb/gal	gal	EC L SL	15 oz/a 1 qt/a 22 oz/a	730 g a/ha 1120 g a/ha		Burndown A Burndown A Burndown A Burndown A		94.3 a	97.0 a	99.0 a	23873.0 a	14.90 abc
LSD (P=.05)		6.70		1.49		1.72		1575.25		0.561				
Standard Deviation		3.68		0.82		0.94		865.92		0.308				
CV		3.77		0.83		0.95		3.5		2.05				
Grand Mean		97.78		98.67		98.78		24725.55		15.03				
Replicate F		0.607		1.000		1.000		0.273		0.361				
Replicate Prob(F)		0.5641		0.4019		0.4019		0.7667		0.7058				
Treatment F		0.725		3.000		1.000		1.163		3.357				
Treatment Prob(F)		0.6204		0.0656		0.4651		0.3907		0.0487				

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Description								Corn, field	Corn, field		
Rating Date								10-19-2011	10-19-2011		
Rating Type								Test Weight	Yield@15.5%		
Rating Unit								lb/bu	bu/A		
Days After First/Last Applic.								155 155	155 155		
Trt-Eval Interval								155 DA-A	155 DA-A		
Plant-Eval Interval								134 DP-1	134 DP-1		
Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code		
1	Corvus atrazine COC	479 ga/l	SC	5.6 oz/a	196 g a/ha	1120 g a/ha		Burndown A	A	54.33 a	140.363 a
		4 lb/gal L		1 qt/a				Burndown A			
		100 %	L	1 % v/v				Burndown A			
2	Corvus atrazine Roundup PowerMAX AMS	479 ga/l	SC	5.6 oz/a	196 g a/ha	1120 g a/ha		Burndown A	A	55.33 a	149.680 a
		4 lb/gal L		1 qt/a				Burndown A			
		5.5 lb/gal SL		22 oz/a				Burndown A			
		21.5 %	GR	8.5 lb/100 gal				Burndown A			
3	Corvus atrazine Ignite AMS	479 ga/l	SC	5.6 oz/a	196 g a/ha	1120 g a/ha		Burndown A	A	53.70 a	135.183 a
		4 lb/gal L		1 qt/a				Burndown A			
		280 ga/l SL		22 oz/a				Burndown A			
		21.5 %	GR	8.5 lb/100 gal				Burndown A			
4	Lumax Touchdown Total AMS	3.948 lb/gal	SL	2.5 qt/a	2770 g a/ha	1050 g a/ha		Burndown A	A	55.00 a	147.633 a
		5 lb/gal SL		24 oz/a				Burndown A			
		21.5 %	GR	8.5 lb/100 gal				Burndown A			
5	Lexar Touchdown Total AMS	3.704 lb/gal	SL	3 qt/a	3100 g a/ha	1050 g a/ha		Burndown A	A	53.97 a	135.960 a
		5 lb/gal SL		24 oz/a				Burndown A			
		21.5 %	GR	8.5 lb/100 gal				Burndown A			
6	Verdict atrazine Roundup PowerMAX AMS	5.57 lb/gal	EC	15 oz/a	730 g a/ha	1120 g a/ha		Burndown A	A	54.13 a	130.913 a
		4 lb/gal L		1 qt/a				Burndown A			
		5.5 lb/gal SL		22 oz/a				Burndown A			
		21.5 %	GR	8.5 lb/100 gal				Burndown A			
LSD (P=.05)								1.551	18.9398		
Standard Deviation								0.852	10.4113		
CV								1.57	7.44		
Grand Mean								54.41	139.96		
Replicate F								0.428	0.689		
Replicate Prob(F)								0.6632	0.5245		
Treatment F								1.640	1.518		
Treatment Prob(F)								0.2364	0.2683		

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