

AG14039 with Sharpen and Dimetric

Trial ID: 15AG14039SD      Location: Western Branch F-4    Trial Year: 2015  
 Protocol ID: 15AG14039SD    Investigator: Dr. Mark M. Loux  
 Project ID:                      Study Director: Anthony Dobbels  
    Sponsor Contact: John Smith, Winfield

**Pest Description**

**Pest 1 Type:** W    **Code:** ERICA    Conyza canadensis  
**Common Name:** Canada horseweed

**Pest 2 Type:** W    **Code:** VERAR    Veronica arvensis  
**Common Name:** Corn speedwell

**Pest 3 Type:** W    **Code:** AMBTR    Ambrosia trifida  
**Common Name:** Giant ragweed

**Pest 4 Type:** W    **Code:** POAAN    Poa annua  
**Common Name:** Annual bluegrass

**Site and Design**

**Treated Plot Width:** 6.67 FT                      **Site Type:** FIELD    field  
**Treated Plot Length:** 30 FT                      **Experimental Unit:** 1    PLOT                      plot  
**Treated Plot Area:** 200.1 FT2    **Treatments:** 10                      **Tillage Type:** NOTILL    no-till  
**Replications:** 3                                      **Study Design:** RACOB    Randomized Complete Block (RCB)

**No. Previous Crop Year**  
1. Soybean                      2014

**Soil Description**

**Description Name:** F-4  
    **% OM:** 2.9                      **Texture:** SIC silty clay  
    **pH:** 5.7                              **Soil Name:** Crosby  
    **CEC:** 15.66                      **Fert. Level:** G good  
    **Soil Drainage:** G good

**Application Description**

**A**  
**Application Date:**                      5-7-2015  
**Appl. Start Time:**                      9:00 AM  
**Appl. Stop Time:**                      9:30 AM  
**Application Method:**                      SPRAY  
**Application Timing:**                      BRNDWN  
**Application Placement:**                      BROFOL  
**Applied By:**                              Reeb  
**Air Temperature, Unit:**                      82 F  
**% Relative Humidity:**                      42  
**Wind Velocity, Unit:**                      8 MPH  
**Wind Direction:**                              S  
**Dew Presence (Y/N):**                      N no  
**Soil Temperature, Unit:**                      70 F  
**Soil Moisture:**                              MOIST  
**% Cloud Cover:**                              30  
**Next Moisture Occurred On:** 5-11-2015  
**Time to Next Moisture, Unit:** 4 DAY

**Pest Stage At Each Application**

**A**

**Pest 1 Code, Type, Scale:** ERICA W  
**Stage Majority, Percent:** 19 100  
**Diameter, Unit:** 2 IN  
**Height, Unit:** 3 IN  
**Height Minimum, Maximum:** 2 3  
**Density, Unit:** 25 M2

**Pest 2 Code, Type, Scale:** VERAR W  
**Stage Majority, Percent:** 65 100  
**Diameter, Unit:** 4 IN  
**Height, Unit:** 0.5 IN  
**Height Minimum, Maximum:** 0.5 0.75  
**Density, Unit:** 0.33 M2

**Pest 3 Code, Type, Scale:** AMBTR W  
**Stage Majority, Percent:** 12 90  
**Stage Minimum, Percent:** 12 90  
**Stage Maximum, Percent:** 14 10  
**Diameter, Unit:** 3 IN  
**Height, Unit:** 2 IN  
**Height Minimum, Maximum:** 2 3  
**Density, Unit:** 0.25 M2

**Pest 4 Code, Type, Scale:** POAAN W  
**Stage Majority, Percent:** 69 100  
**Height, Unit:** 4 IN  
**Height Minimum, Maximum:** 4 6  
**Density, Unit:** 0.33 M2

**Application Equipment**

**A**

**Appl. Equipment:** 6 FOOT BOOM  
**Equipment Type:** SPRBAC  
**Operation Pressure, Unit:** 46 PSI  
**Nozzle Type:** AI XR  
**Nozzle Size:** 110015  
**Nozzle Spacing, Unit:** 18 IN  
**Boom Length, Unit:** 10 FT  
**Boom Height, Unit:** 20 IN  
**Ground Speed, Unit:** 3 MPH  
**Carrier:** WATER  
**Spray Volume, Unit:** 15 GPA  
**Mix Size, Unit:** 1 Liters  
**Propellant:** CO2

AG14039 with Sharpen and Dimetric

Trial ID: 15AG14039SD      Location: Western Branch F-4    Trial Year: 2015  
 Protocol ID: 15AG14039SD    Investigator: Dr. Mark M. Loux  
 Project ID:                      Study Director: Anthony Dobbels  
    Sponsor Contact: John Smith, Winfield

Pest Type	W Weed	W Weed	W Weed
Pest Code	ERICA	ERICA	ERICA
Pest Scientific Name	Conyza canadensis	Conyza canadensis	Conyza canadensis
Pest Name	Canada horseweed	Canada horseweed	Canada horseweed
Rating Date	5-14-2015	5-21-2015	6-4-2015
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Days After First/Last Applic.	7 7	14 14	28 28
Trt-Eval Interval	7 DA-A	14 DA-A	28 DA-A
ARM Action Codes		AA	
Number of Decimals	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit	Appl Code	Appl Description	1	2	3
1	Sharpen	1 oz/a		A	BRNDWN		99 a	91 b	80 b
1	Destiny HC	0.75 pt/a		A	BRNDWN				
2	Sharpen	1 oz/a		A	BRNDWN		99 a	100 a	98 a
2	Dimetric	5 oz/a		A	BRNDWN				
3	Sharpen	1 oz/a		A	BRNDWN		100 a	99 ab	92 ab
3	Dimetric	5 oz/a		A	BRNDWN				
3	Destiny HC	0.75 pt/a		A	BRNDWN				
4	Sharpen	1 oz/a		A	BRNDWN		97 a	95 ab	85 ab
4	Dimetric	5 oz/a		A	BRNDWN				
4	AG14039	0.75 pt/a		A	BRNDWN				
5	Sharpen	1 oz/a		A	BRNDWN		97 a	93 ab	82 b
5	Dimetric	5 oz/a		A	BRNDWN				
5	Destiny HC	0.75 pt/a		A	BRNDWN				
5	Interlock	4 oz/a		A	BRNDWN				
6	Sharpen	1 oz/a		A	BRNDWN		99 a	94 ab	88 ab
6	Dimetric	5 oz/a		A	BRNDWN				
6	Destiny HC	1 pt/a		A	BRNDWN				
7	Sharpen	1 oz/a		A	BRNDWN		100 a	100 a	100 a
7	Dimetric	5 oz/a		A	BRNDWN				
7	AG14039	1 pt/a		A	BRNDWN				
8	UTC						0 b	0 c	0 c
9	Sharpen	1 oz/a		A	BRNDWN		100 a	98 ab	92 ab
9	Dimetric	8 oz/a		A	BRNDWN				
9	Destiny HC	0.75 pt/a		A	BRNDWN				

Means followed by same letter do not significantly differ (P=.05, LSD)  
 t=Mean descriptions are reported in transformed data units, and are not de-transformed.  
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

## The Ohio State University

Pest Type	W Weed	W Weed	W Weed
Pest Code	ERICA	ERICA	ERICA
Pest Scientific Name	Conyza canadensis	Conyza canadensis	Conyza canadensis
Pest Name	Canada horseweed	Canada horseweed	Canada horseweed
Rating Date	5-14-2015	5-21-2015	6-4-2015
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Days After First/Last Applic.	7 7	14 14	28 28
Trt-Eval Interval	7 DA-A	14 DA-A	28 DA-A
ARM Action Codes		AA	
Number of Decimals	0	0	0

Trt	Treatment	Other	Other	Appl	Appl				
No.	Name	Rate	Rate	Unit	Code	Description	1	2	3
10	Sharpen	1 oz/a		A		BRNDWN	100 a	94 ab	95 ab
10	Dimetric	8 oz/a		A		BRNDWN			
10	AG14039	0.75 pt/a		A		BRNDWN			
LSD P=.05							4.3	13.6t	16.6
Standard Deviation							2.5	7.9t	9.7
CV							2.81	11.08t	11.91
Grand Mean							89.1	71.6t	81.2
Bartlett's X2							14.67	5.413	6.09
P(Bartlett's X2)							0.012*	0.713	0.529
Skewness							-2.7743*	-2.2547*	-2.153*
Kurtosis							6.1772*	4.357*	3.8929*
Replicate F							2.350	2.297	3.755
Replicate Prob(F)							0.1240	0.1293	0.0434
Treatment F							470.812	31.473	27.533
Treatment Prob(F)							0.0001	0.0001	0.0001

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

ERICA, Conyza canadensis, = US

Rating Type

CONTRO = control / burndown or knockdown

Rating Unit

% = percent

ARM Action Codes

AA = Automatic arcsine square root % transformation