

# The Ohio State University

## Evaluation of Xtendimax residual properties

Trial ID: 13 BAREXTEND      Location: Western Branch    Trial Year: 2013  
 Protocol ID: 13 BAREXTEND    Investigator: Dr. Mark M. Loux  
 Project ID: 2013-01-24-14      Study Director: Bryan Reeb  
 Sponsor Contact: Rod Stevenson, Monsanto

### Pest Description

**Pest 1 Type:** W    **Code:** SETFA    *Setaria faberi*  
**Common Name:** Giant foxtail

**Pest 2 Type:** W    **Code:** AMBTR    *Ambrosia trifida*  
**Common Name:** Giant ragweed

**Pest 3 Type:** W    **Code:** AMARE    *Amaranthus retroflexus*  
**Common Name:** Redroot pigweed

**Pest 4 Type:** W    **Code:** CHEAL    *Chenopodium album*  
**Common Name:** Common lambsquarters

### Site and Design

**Treated Plot Width:** 6.67 FT  
**Treated Plot Length:** 30 FT  
**Treated Plot Area:** 200.1 FT<sup>2</sup>    **Treatments:** 16  
**Replications:** 4

**Site Type:** FIELD    field  
**Experimental Unit:** 1    PLOT    plot  
**Tillage Type:** CONTIL    conventional-till  
**Study Design:** RACOBL    Randomized Complete Block (RCB)

### Soil Description

**Description Name:** F-6  
**% OM:** 2.3      **Texture:** SICL silty clay loam  
**pH:** 6.4      **Soil Name:** Kokomo  
**CEC:** 13.8      **Fert. Level:** G good  
**Soil Drainage:** G good

### Application Description

**A**

**Application Date:** May-17-2013  
**Appl. Start Time:** 7:00 AM  
**Appl. Stop Time:** 7:20 AM  
**Application Method:** SPRAY  
**Application Timing:** PRE  
**Application Placement:** SOIL  
**Applied By:** REEB  
**Air Temperature, Unit:** 63 F  
**% Relative Humidity:** 3  
**Wind Velocity, Unit:** 2 MPH  
**Wind Direction:** W  
**Dew Presence (Y/N):** Y yes  
**Soil Temperature, Unit:** 58 F  
**Soil Moisture:** MOIST  
**% Cloud Cover:** 100  
**Next Moisture Occurred On:** May-19-2013

### Pest Stage At Each Application

**A**

**Pest 1 Code, Type, Scale:** SETFA W  
**Density, Unit:** 228 M2

**Pest 2 Code, Type, Scale:** AMBTR W  
**Density, Unit:** 24 M2

**Pest 3 Code, Type, Scale:** AMARE W  
**Density, Unit:** 12 M2

**Pest 4 Code, Type, Scale:** CHEAL W  
**Density, Unit:** 96 M2

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### Application Equipment

**A**

<b>Appl. Equipment:</b>	Backpack
<b>Equipment Type:</b>	SPRBAC
<b>Operation Pressure, Unit:</b>	48 PSI
<b>Nozzle Type:</b>	AIXR
<b>Nozzle Size:</b>	110015
<b>Nozzle Spacing, Unit:</b>	18 IN
<b>Boom Length, Unit:</b>	6 FT
<b>Boom Height, Unit:</b>	18 IN
<b>Ground Speed, Unit:</b>	3 MPH
<b>Carrier:</b>	WATER
<b>Spray Volume, Unit:</b>	15 gal/ac
<b>Mix Size, Unit:</b>	2 Liters
<b>Propellant:</b>	COMCO2

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Pest Code		SETFA	AMBTR	CHEAL	SETFA	AMBTR	CHEAL			
Description		BAREGROUND	BAREGROUND	BAREGROUND	BAREGROUND	BAREGROUND	BAREGROUND			
Rating Date		Jun-1-2013	Jun-1-2013	Jun-1-2013	Jun-12-2013	Jun-12-2013	Jun-12-2013			
Rating Type		CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit		%	%	%	%	%	%			
Days After First/Last Applic.		15 15	15 15	15 15	26 26	26 26	26 26			
Trt-Eval Interval		15 DA-A	15 DA-A	15 DA-A	26 DA-A	26 DA-A	26 DA-A			
Trt No.	Treatment Name	Rate	Unit	Appl Code	1	2	3	4	5	6
1	Clarity	0.5 lb ai/a	A		56	48	100	50	48	99
2	Clarity	1 lb ai/a	A		73	58	96	65	70	100
3	2,4-D Amine	0.75 lb ai/a	A		7	15	75	20	20	9
4	2,4-D Amine	1 lb ai/a	A		30	25	85	35	28	35
5	Valor XLT @ 3.5 oz				74	40	100	40	35	98
5	Valor SX	0.0653 lb ai/a	A							
5	Classic	0.0227 lb ai/a	A							
6	Valor XLT @ 3.5 oz				89	64	100	70	64	100
6	Valor SX	0.0653 lb ai/a	A							
6	Classic	0.0227 lb ai/a	A							
6	Clarity	0.5 lb ai/a	A							
7	Valor XLT @ 3.5 oz				97	85	100	88	91	100
7	Valor SX	0.0653 lb ai/a	A							
7	Classic	0.0227 lb ai/a	A							
7	Clarity	1 lb ai/a	A							
8	Valor XLT @ 3.5 oz				77	53	100	71	62	100
8	Valor SX	0.0653 lb ai/a	A							
8	Classic	0.0227 lb ai/a	A							
8	2,4-D Amine	0.75 lb ai/a	A							
9	Valor XLT @ 3.5 oz				87	33	100	69	53	99
9	Valor SX	0.0653 lb ai/a	A							
9	Classic	0.0227 lb ai/a	A							
9	2,4-D Amine	1 lb ai/a	A							
10	Warrant	1.12 lb ai/a	A		35	8	20	10	8	42
11	Warrant	1.12 lb ai/a	A		67	43	100	60	58	100
11	Clarity	0.5 lb ai/a	A							
12	Warrant	1.12 lb ai/a	A		99	78	99	90	80	100
12	Clarity	1 lb ai/a	A							
13	Warrant	1.12 lb ai/a	A		75	40	90	58	40	50
13	2,4-D Amine	0.75 lb ai/a	A							
14	Warrant	1.12 lb ai/a	A		32	15	93	33	23	45
14	2,4-D Amine	1 lb ai/a	A							
15	Liberty	0.53 lb ai/a	A		0	0	0	0	0	0

t=Mean descriptions are reported in transformed data units, and are not de-transformed.  
 Missing data estimates are included in columns: Yates=2,4; Average=3

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Rating Type		CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit		%	%	%	%	%	%		
Days After First/Last Applic.		15 15	15 15	15 15	26 26	26 26	26 26		
Trt-Eval Interval		15 DA-A	15 DA-A	15 DA-A	26 DA-A	26 DA-A	26 DA-A		
Trt Treatment No. Name	Rate	Unit	Code	1	2	3	4	5	6
16 UTC				0	0	0	0	0	0
LSD (P=.05)				18.0t	23.4	10.9	23.0	24.3	11.5t
Standard Deviation				12.6t	16.4	7.6	16.1	17.0	8.1t
CV				26.37	43.61	9.71	34.1	40.26	13.35
Bartlett's X2				12.412	13.223	9.333	16.079	22.177	7.726
P(Bartlett's X2)				0.494	0.431	0.156	0.245	0.053	0.562
Skewness				-0.4742	0.2508	-1.4304*	-0.2471	0.0111	-0.651*
Kurtosis				-0.7587	-1.0031	0.2737	-1.123	-1.1246	-1.0867
Replicate F				1.900	2.087	0.728	1.527	1.719	2.221
Replicate Prob(F)				0.1432	0.1156	0.5412	0.2207	0.1766	0.0987
Treatment F				16.927	10.134	91.936	12.929	10.770	70.600
Treatment Prob(F)				0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

Pest Code

SETFA, Setaria faberi, = US  
 AMBTR, Ambrosia trifida, = US  
 CHEAL, Chenopodium album, = US

Rating Type

CONTRO = control / burndown or knockdown

Rating Unit

% = percent