

The Ohio State University

Envive, Canopy and DPX R5W13 plus Zidua, Fierce and Cinch

Trial ID: 13 NTS1 Location: Western Branch Trial Year: 2013
 Protocol ID: 13 NTS1 Investigator: Dr. Mark M. Loux
 Project ID: US 116/13/01 Study Director: Bryan Reeb
 Sponsor Contact: Marsha Martin, Dupont

Crop Description

Crop 1: GLXMA Glycine max
Variety: Asgrow 3533
Description: Round Up Ready

BBCH Scale: BSOY
 Soybean

Planting Rate, Unit: 135000 S/A
Depth, Unit: 0.75 IN
Row Spacing, Unit: 15 IN
Soil Temperature, Unit: 54 F
Soil Moisture: SLIWET slightly wet, moist
Seed Bed: FINTRA fine/trashy

Planting Date: Apr-27-2013
Planting Method: PLANTD planted
Planting Equipment: PP Plot Planter
Emergence Date: May-17-2013

Pest Description

- Pest 1 Type:** W **Code:** LAMPU *Lamium purpureum*
Common Name: Purple deadnettel
- Pest 2 Type:** W **Code:** STEME *Stellaria media*
Common Name: Common chickweed
- Pest 3 Type:** W **Code:** SENGL *Senecio glabellus*
Common Name: Cressleaf groundsel
- Pest 4 Type:** W **Code:** ERICA *Conyza canadensis*
Common Name: Canada horseweed
- Pest 5 Type:** W **Code:** CAPBP *Capsella bursa-pastoris*
Common Name: Shepherd's purse
- Pest 6 Type:** W **Code:** RANAB *Ranunculus abortivus*
Common Name: Smallflower buttercup
- Pest 7 Type:** W **Code:** ERPSS *Erophila sp.*
Common Name: Whitlowgrass
- Pest 8 Type:** W **Code:** SETFA *Setaria faberi*
Common Name: Giant foxtail
- Pest 9 Type:** W **Code:** AMBTR *Ambrosia trifida*
Common Name: Giant ragweed

Site and Design

Treated Plot Width: 6.67 FT
Treated Plot Length: 30 FT
Treated Plot Area: 200.1 FT² **Treatments:** 10
Replications: 3

Site Type: FIELD field
Experimental Unit: 1 PLOT plot
Tillage Type: NOTILL no-till
Study Design: RACOB L Randomized Complete Block (RCB)

Soil Description

Description Name: F-9 West
% OM: 2 **Texture:** SICL silty clay loam
pH: 6.2 **Soil Name:** Kokomo
CEC: 9.7 **Fert. Level:** G good
Soil Drainage: G good

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Application Description

	A	B
Application Date:	Apr-15-2013	May-29-2013
Appl. Start Time:	1:45 PM	8:00 PM
Appl. Stop Time:	2:00 PM	8:30 AM
Application Method:	SPRAY	SPRAY
Application Timing:	14 EPP	POST
Application Placement:	BROSOI	BROFOL
Applied By:	DOBBELS	DOBBELS
Air Temperature, Unit:	66.3 F	79 F
% Relative Humidity:	59	51
Wind Velocity, Unit:	6 MPH	7 MPH
Wind Direction:	SSE	SW
Dew Presence (Y/N):	N no	N no
Soil Temperature, Unit:	53 F	80 F
Soil Moisture:	SLIWET	DRY
% Cloud Cover:	80	33
Next Moisture Occurred On:	Apr-16-2013	May-31-2013

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:		BBCH
Stage Majority, Percent:		11 100
Height, Unit:		2.5 IN
Height Minimum, Maximum:		2 3

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	LAMPU W	LAMPU W
Stage Majority, Percent:	65 100	
Diameter, Unit:	3.5 IN	
Height, Unit:	1.5 IN	
Height Minimum, Maximum:	1 3	
Pest 2 Code, Type, Scale:	STEME W	STEME W
Stage Majority, Percent:	65 100	
Diameter, Unit:	4 IN	
Height, Unit:	0.75 IN	
Height Minimum, Maximum:	0.5 1	
Pest 3 Code, Type, Scale:	SENGL W	SENGL W
Stage Majority, Percent:	19 100	
Diameter, Unit:	4 IN	
Height, Unit:	4 IN	
Height Minimum, Maximum:	3 5	
Pest 4 Code, Type, Scale:	ERICA W	ERICA W
Stage Majority, Percent:	19 100	19 100
Diameter, Unit:	1.5 IN	
Height, Unit:	1 IN	3 IN
Height Minimum, Maximum:	0.5 1.5	
Pest 5 Code, Type, Scale:	CAPBP W	CAPBP W
Stage Majority, Percent:	65 100	
Diameter, Unit:	3.5 IN	
Height, Unit:	6 IN	
Height Minimum, Maximum:	5 8	
Pest 6 Code, Type, Scale:	RANAB W	RANAB W
Stage Majority, Percent:	12 100	
Diameter, Unit:	1 IN	
Height, Unit:	1 IN	
Height Minimum, Maximum:	1 1.5	
Pest 7 Code, Type, Scale:	ERPSS W	ERPSS W
Stage Majority, Percent:	65 100	
Diameter, Unit:	1.5 IN	
Height, Unit:	1.5 IN	
Height Minimum, Maximum:	1 2	
Pest 8 Code, Type, Scale:	SETFA W	SETFA W
Stage Majority, Percent:		14 100
Height, Unit:		2 IN
Height Minimum, Maximum:		1 3
Pest 9 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:		14 100
Height, Unit:		4 IN

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Application Equipment

	A	B
Appl. Equipment:	Backpack	Backpack
Equipment Type:	SPRBAC	SPRBAC
Operation Pressure, Unit:	48 PSI	48 PSI
Nozzle Type:	AIXR	AIXR
Nozzle Size:	110015	110015
Nozzle Spacing, Unit:	18 IN	18 IN
Boom Length, Unit:	6 FT	6 FT
Boom Height, Unit:	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	15 gal/ac	15 gal/ac
Mix Size, Unit:	1 Liters	1 Liters
Propellant:	COMCO2	COMCO2

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Pest Code	LAMPU	LAMAM	STEME	ERPSS	CAPBP	ERICA	VERAR					
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA					
Rating Date	May-9-2013	May-9-2013	May-9-2013	May-9-2013	May-9-2013	May-9-2013	May-9-2013					
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO					
Rating Unit	%	%	%	%	%	%	%					
Days After First/Last Applic.	24 24	24 24	24 24	24 24	24 24	24 24	24 24					
Trt-Eval Interval	24 DA-A	24 DA-A	24 DA-A	24 DA-A	24 DA-A	24 DA-A	24 DA-A					
Plant-Eval Interval	12 DP-1	12 DP-1	12 DP-1	12 DP-1	12 DP-1	12 DP-1	12 DP-1					
Days After Emergence	-8 DE-1	-8 DE-1	-8 DE-1	-8 DE-1	-8 DE-1	-8 DE-1	-8 DE-1					
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit	Code	1	2	3	4	5	6	7
1	Envive @ 3.5 oz					100	100	98	100	100	92	98
	1 Classic	1.28 oz/a			A							
	1 Thifensulfuron	0.2 oz/a			A							
	1 Valor SX	2 oz/a			A							
	1 Zidua	1.5 oz/a			A							
	1 Abundit Extra	32 oz/a			A							
	1 2,4-D Ester	1 qt/a			A							
	1 N-pak ams	1.8 qt/a			A							
	1 Abundit Extra	32 oz/a			B							
	1 N-pak ams	1.8 qt/a			B							
2	Envive @ 3.5 oz					100	100	95	100	100	99	95
	2 Classic	1.28 oz/a			A							
	2 Thifensulfuron	0.2 oz/a			A							
	2 Valor SX	2 oz/a			A							
	2 Abundit Extra	32 oz/a			A							
	2 2,4-D Ester	1 qt/a			A							
	2 N-pak ams	1.8 qt/a			A							
	2 Abundit Extra	32 oz/a			B							
	2 N-pak ams	1.8 qt/a			B							
3	Canopy	4 oz/a			A	100	100	93	100	100	93	91
	3 Zidua	1.5 oz/a			A							
	3 Abundit Extra	32 oz/a			A							
	3 2,4-D Ester	1 qt/a			A							
	3 N-pak ams	1.8 qt/a			A							
	3 Abundit Extra	32 oz/a			B							
	3 N-pak ams	1.8 qt/a			B							
4	Canopy	4 oz/a			A	100	100	86	93	100	98	84
	4 Fierce	2 oz/a			A							
	4 Abundit Extra	32 oz/a			A							
	4 2,4-D Ester	1 qt/a			A							
	4 N-pak ams	1.8 qt/a			A							
	4 Abundit Extra	32 oz/a			B							
	4 N-pak ams	1.8 qt/a			B							
5	Canopy	4 oz/a			A	100	100	83	100	100	92	91
	5 Cinch	1 pt/a			A							
	5 Abundit Extra	32 oz/a			A							
	5 2,4-D Ester	1 qt/a			A							
	5 N-pak ams	1.8 qt/a			A							
	5 Abundit Extra	32 oz/a			B							
	5 N-pak ams	1.8 qt/a			B							
6	Canopy	4 oz/a			A	100	100	80	100	100	99	78
	6 Abundit Extra	32 oz/a			A							
	6 2,4-D Ester	1 qt/a			A							
	6 N-pak ams	1.8 qt/a			A							
	6 Abundit Extra	32 oz/a			B							
	6 N-pak ams	1.8 qt/a			B							

t=Mean descriptions are reported in transformed data units, and are not de-transformed.

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Pest Code	LAMP	LAMA	STEME	ERPSS	CAPBP	ERICA	VERAR				
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA				
Rating Date	May-9-2013	May-9-2013	May-9-2013	May-9-2013	May-9-2013	May-9-2013	May-9-2013				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%	%	%				
Days After First/Last Applic.	24 24	24 24	24 24	24 24	24 24	24 24	24 24				
Trt-Eval Interval	24 DA-A	24 DA-A	24 DA-A	24 DA-A	24 DA-A	24 DA-A	24 DA-A				
Plant-Eval Interval	12 DP-1	12 DP-1	12 DP-1	12 DP-1	12 DP-1	12 DP-1	12 DP-1				
Days After Emergence	-8 DE-1	-8 DE-1	-8 DE-1	-8 DE-1	-8 DE-1	-8 DE-1	-8 DE-1				
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	1	2	3	4	5	6	7
7	DPX R5W13 @ 8 oz				100	100	92	100	100	98	95
	7 Classic	1.25 oz/a		A							
	7 Sencor DF	4.751 oz/a		A							
	7 Valor SX	2 oz/a		A							
	7 Zidua	1.5 oz/a		A							
	7 Abundit Extra	32 oz/a		A							
	7 2,4-D Ester	1 qt/a		A							
	7 N-pak ams	1.8 qt/a		A							
	7 Abundit Extra	32 oz/a		B							
	7 N-pak ams	1.8 qt/a		B							
8	DPX R5W13 @ 8 oz				100	100	88	100	100	100	100
	8 Classic	1.25 oz/a		A							
	8 Sencor DF	4.751 oz/a		A							
	8 Valor SX	2 oz/a		A							
	8 Abundit Extra	32 oz/a		A							
	8 2,4-D Ester	1 qt/a		A							
	8 N-pak ams	1.8 qt/a		A							
	8 Abundit Extra	32 oz/a		B							
	8 N-pak ams	1.8 qt/a		B							
9	Zidua	2 oz/a		A	100	100	100	100	93	83	72
	9 Abundit Extra	32 oz/a		A							
	9 2,4-D Ester	1 qt/a		A							
	9 N-pak ams	1.8 qt/a		A							
	9 Abundit Extra	32 oz/a		B							
	9 N-pak ams	1.8 qt/a		B							
10	Fierce	3 oz/a		A	100	100	97	100	100	75	100
	10 Abundit Extra	32 oz/a		A							
	10 2,4-D Ester	1 qt/a		A							
	10 N-pak ams	1.8 qt/a		A							
	10 Abundit Extra	32 oz/a		B							
	10 N-pak ams	1.8 qt/a		B							
LSD (P=.05)					0.0	0.0	12.5	6.3	4.1	18.9t	15.0t
Standard Deviation					0.0	0.0	7.3	3.7	2.4	11.0t	8.7t
CV					0.0	0.0	7.98	3.68	2.43	14.44	11.83
Bartlett's X2					0.0	0.0	6.683	0.0	0.0	2.905	5.3
P(Bartlett's X2)					.	.	0.571	.	.	0.968	0.807
Skewness					.	.	-0.3564	-5.4772*	-4.7824*	-0.2888	-0.0989
Kurtosis					.	.	-1.515	30.0*	23.7736*	-1.3516	-1.14
Replicate F					0.000	0.000	0.819	1.000	1.000	2.572	8.435
Replicate Prob(F)					1.0000	1.0000	0.4565	0.3874	0.3874	0.1041	0.0026
Treatment F					0.000	0.000	2.486	1.000	2.286	1.872	3.815
Treatment Prob(F)					1.0000	1.0000	0.0478	0.4742	0.0648	0.1230	0.0075

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Pest Code	STEME	VERAR	SETFA	ERICA	AMBTR	SETFA	AMBTR				
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA				
Rating Date	May-23-2013	May-23-2013	May-23-2013	May-23-2013	May-23-2013	Jun-21-2013	Jun-21-2013				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%	%	%				
Days After First/Last Applic.	38 38	38 38	38 38	38 38	38 38	67 23	67 23				
Trt-Eval Interval	38 DA-A	38 DA-A	38 DA-A	38 DA-A	38 DA-A	23 DA-B	23 DA-B				
Plant-Eval Interval	26 DP-1	26 DP-1	26 DP-1	26 DP-1	26 DP-1	55 DP-1	55 DP-1				
Days After Emergence	6 DE-1	6 DE-1	6 DE-1	6 DE-1	6 DE-1	35 DE-1	35 DE-1				
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	8	9	10	11	12	13	14
7	DPX R5W13 @ 8 oz				98	100	55	100	97	50	97
7	Classic	1.25 oz/a		A							
7	Sencor DF	4.751 oz/a		A							
7	Valor SX	2 oz/a		A							
7	Zidua	1.5 oz/a		A							
7	Abundit Extra	32 oz/a		A							
7	2,4-D Ester	1 qt/a		A							
7	N-pak ams	1.8 qt/a		A							
7	Abundit Extra	32 oz/a		B							
7	N-pak ams	1.8 qt/a		B							
8	DPX R5W13 @ 8 oz				97	99	40	99	97	50	90
8	Classic	1.25 oz/a		A							
8	Sencor DF	4.751 oz/a		A							
8	Valor SX	2 oz/a		A							
8	Abundit Extra	32 oz/a		A							
8	2,4-D Ester	1 qt/a		A							
8	N-pak ams	1.8 qt/a		A							
8	Abundit Extra	32 oz/a		B							
8	N-pak ams	1.8 qt/a		B							
9	Zidua	2 oz/a		A	100	89	30	73	97	53	100
9	Abundit Extra	32 oz/a		A							
9	2,4-D Ester	1 qt/a		A							
9	N-pak ams	1.8 qt/a		A							
9	Abundit Extra	32 oz/a		B							
9	N-pak ams	1.8 qt/a		B							
10	Fierce	3 oz/a		A	99	99	47	68	87	53	100
10	Abundit Extra	32 oz/a		A							
10	2,4-D Ester	1 qt/a		A							
10	N-pak ams	1.8 qt/a		A							
10	Abundit Extra	32 oz/a		B							
10	N-pak ams	1.8 qt/a		B							
LSD (P=.05)		14.7t	13.8t		22.9	15.2t	18.9	12.8	11.8		
Standard Deviation		8.6t	8.0t		13.3	8.9t	11.0	7.5	6.9		
CV		10.19	10.2		30.41	11.42	11.58	13.43	7.05		
Bartlett's X2		3.703	3.204		2.64	5.136	10.045	2.231	7.724		
P(Bartlett's X2)		0.717	0.956		0.955	0.743	0.123	0.946	0.102		
Skewness		-1.134*	-0.2405		-1.1224*	-1.0654*	-2.5889*	0.1995	-3.156*		
Kurtosis		-0.1511	-1.0071		1.2174	0.5157	6.4178*	-0.8413	10.7925*		
Replicate F		0.740	3.454		6.336	2.720	0.083	2.921	0.548		
Replicate Prob(F)		0.4912	0.0538		0.0083	0.0929	0.9211	0.0797	0.5874		
Treatment F		1.024	2.269		2.960	5.129	1.055	2.391	0.794		
Treatment Prob(F)		0.4583	0.0664		0.0239	0.0016	0.4380	0.0552	0.6264		

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Pest Code	ERICA
Crop Code	GLXMA
Rating Date	Jun-21-2013
Rating Type	CONTRO
Rating Unit	%
Days After First/Last Applic.	67 23
Trt-Eval Interval	23 DA-B
Plant-Eval Interval	55 DP-1
Days After Emergence	35 DE-1

Trt Treatment	Other	Other	Appl		
No. Name	Rate	Rate	Unit Code	15	16

1 Envive @ 3.5 oz 94

1 Classic	1.28 oz/a	A
1 Thifensulfuron	0.2 oz/a	A
1 Valor SX	2 oz/a	A
1 Zidua	1.5 oz/a	A
1 Abundit Extra	32 oz/a	A
1 2,4-D Ester	1 qt/a	A
1 N-pak ams	1.8 qt/a	A
1 Abundit Extra	32 oz/a	B
1 N-pak ams	1.8 qt/a	B

2 Envive @ 3.5 oz 98

2 Classic	1.28 oz/a	A
2 Thifensulfuron	0.2 oz/a	A
2 Valor SX	2 oz/a	A
2 Abundit Extra	32 oz/a	A
2 2,4-D Ester	1 qt/a	A
2 N-pak ams	1.8 qt/a	A
2 Abundit Extra	32 oz/a	B
2 N-pak ams	1.8 qt/a	B

3 Canopy 90

3 Zidua	4 oz/a	A
3 Zidua	1.5 oz/a	A
3 Abundit Extra	32 oz/a	A
3 2,4-D Ester	1 qt/a	A
3 N-pak ams	1.8 qt/a	A
3 Abundit Extra	32 oz/a	B
3 N-pak ams	1.8 qt/a	B

4 Canopy 93

4 Fierce	4 oz/a	A
4 Fierce	2 oz/a	A
4 Abundit Extra	32 oz/a	A
4 2,4-D Ester	1 qt/a	A
4 N-pak ams	1.8 qt/a	A
4 Abundit Extra	32 oz/a	B
4 N-pak ams	1.8 qt/a	B

5 Canopy 98

5 Cinch	4 oz/a	A
5 Cinch	1 pt/a	A
5 Abundit Extra	32 oz/a	A
5 2,4-D Ester	1 qt/a	A
5 N-pak ams	1.8 qt/a	A
5 Abundit Extra	32 oz/a	B
5 N-pak ams	1.8 qt/a	B

6 Canopy 85

6 Abundit Extra	4 oz/a	A
6 Abundit Extra	32 oz/a	A
6 2,4-D Ester	1 qt/a	A
6 N-pak ams	1.8 qt/a	A
6 Abundit Extra	32 oz/a	B
6 N-pak ams	1.8 qt/a	B

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Pest Code	ERICA
Crop Code	GLXMA
Rating Date	Jun-21-2013
Rating Type	CONTRO
Rating Unit	%
Days After First/Last Applic.	67 23
Trt-Eval Interval	23 DA-B
Plant-Eval Interval	55 DP-1
Days After Emergence	35 DE-1

Trt No.	Treatment Name	Other Rate	Other Rate	Unit	Appl Code	15	16
7	DPX R5W13 @ 8 oz					95	
7	Classic	1.25 oz/a			A		
7	Sencor DF	4.751 oz/a			A		
7	Valor SX	2 oz/a			A		
7	Zidua	1.5 oz/a			A		
7	Abundit Extra	32 oz/a			A		
7	2,4-D Ester	1 qt/a			A		
7	N-pak ams	1.8 qt/a			A		
7	Abundit Extra	32 oz/a			B		
7	N-pak ams	1.8 qt/a			B		
8	DPX R5W13 @ 8 oz					99	
8	Classic	1.25 oz/a			A		
8	Sencor DF	4.751 oz/a			A		
8	Valor SX	2 oz/a			A		
8	Abundit Extra	32 oz/a			A		
8	2,4-D Ester	1 qt/a			A		
8	N-pak ams	1.8 qt/a			A		
8	Abundit Extra	32 oz/a			B		
8	N-pak ams	1.8 qt/a			B		
9	Zidua	2 oz/a			A	47	
9	Abundit Extra	32 oz/a			A		
9	2,4-D Ester	1 qt/a			A		
9	N-pak ams	1.8 qt/a			A		
9	Abundit Extra	32 oz/a			B		
9	N-pak ams	1.8 qt/a			B		
10	Fierce	3 oz/a			A	53	
10	Abundit Extra	32 oz/a			A		
10	2,4-D Ester	1 qt/a			A		
10	N-pak ams	1.8 qt/a			A		
10	Abundit Extra	32 oz/a			B		
10	N-pak ams	1.8 qt/a			B		
LSD (P=.05)						21.6t	.
Standard Deviation						12.6t	.
CV						17.87	.
Bartlett's X2						4.105	.
P(Bartlett's X2)						0.904	.
Skewness						-0.3302	.
Kurtosis						-0.9791	.
Replicate F						0.136	
Replicate Prob(F)						0.8734	
Treatment F						3.900	
Treatment Prob(F)						0.0068	

The Ohio State University

Envive, Canopy and DPX R5W13 plus Zidua, Fierce and Cinch

Trial ID: 13 NTS1 Location: Western Branch Trial Year: 2013
Protocol ID: 13 NTS1 Investigator: Dr. Mark M. Loux
Project ID: US 116/13/01 Study Director: Bryan Reeb
Sponsor Contact: Marsha Martin, Dupont

Pest Code

LAMPU, Lamium purpureum, = US
LAMAM, Lamium amplexicaule, = US
STEME, Stellaria media, = US
ERPSS, Erophila sp., = US
CAPBP, Capsella bursa-pastoris, = US
ERICA, Conyza canadensis, = US
VERAR, Veronica arvensis, = US
SETFA, Setaria faberi, = US
AMBTR, Ambrosia trifida, = US

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Type

CONTRO = control / burndown or knockdown

Rating Unit

% = percent

Plant-Eval Interval

12 DP-1 = 1 GLXMA Apr-27-2013
26 DP-1 = 1 GLXMA Apr-27-2013
55 DP-1 = 1 GLXMA Apr-27-2013