

Ohio State University Horticulture and Crop Science

Ignite Timing Study

Title No. 2:
 Trial ID: 11IGTIME(WARS) Protocol ID: 11IGTIME(WARS)
 Location: WESTERN BRANCH F-10 W Study Director: Anthony F. Dobbels
 Project ID: Investigator: Dr. Mark M. Loux
 Sponsor Contact:

General Trial Information

Study Director: Anthony F. Dobbels **Title:** Research Specialist
Investigator: Dr. Mark M. Loux **Title:** Professor

Trial Location

City: South Charleston **Latitude of LL Corner °:** 39.8588 N
State/Prov.: Ohio **Longitude of LL Corner °:** -83.67326 W
Postal Code: 45368
Country: USA

Personnel

Study Director: Anthony F. Dobbels **Title:** Research Specialist
Affiliation: The Ohio State University
Address: 7721 South Charleston Pike
Location: South Charleston OH
Postal Code: 45368 **E-mail:** dobbels.1@osu.edu
Investigator: Dr. Mark M. Loux **Title:** Professor
Affiliation: The Ohio State University
Address: 222 Kottman Hall, 2021 Coffey Road
Location: Columbus OH
Postal Code: 43210 **E-mail:** loux.1@osu.edu

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: Asgrow AG3631 **Description:** RR
BBCH Scale: BSOY **Planting Date:** 5/22/11
Planting Method: SEEDED seeded **Rate, Unit:** 197000 S/A
Depth, Unit: 1 IN
Row Spacing, Unit: 15 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 71 F
Soil Moisture: SLIWET slightly wet

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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:** CAPBP *Capsella bursa-pastoris*
Common Name: Shepherd's purse
- Pest 4 Type:** W **Code:** ERYRE *Erysimum repandum*
Common Name: Bushy wallflower
- Pest 5 Type:** W **Code:** TAROF *Taraxacum officinale*
Common Name: Common dandelion
- Pest 6 Type:** W **Code:** AMBEL *Ambrosia artemisiifolia*
Common Name: Common ragweed
- Pest 7 Type:** W **Code:** RANAB *Ranunculus abortivus*
Common Name: Smallflower buttercup
- Pest 8 Type:** W **Code:** ERICA *Conyza canadensis*
Common Name: Canada horseweed
- Pest 9 Type:** W **Code:** AMBTR *Ambrosia trifida*
Common Name: Giant ragweed
- Pest10 Type:** W **Code:** VERAG *Veronica agrestis*
Common Name: Field speedwell
- Pest11 Type:** W **Code:** BROTE *Bromus tectorum*
Common Name: Downy brome
- Pest12 Type:** W **Code:** SETFA *Setaria faberi*
Common Name: Giant foxtail
- Pest13 Type:** W **Code:** ECHCG *Echinochloa crus-galli*
Common Name: Common barnyardgrass
- Pest14 Type:** W **Code:** ERICA *Conyza canadensis*
Common Name: Canada horseweed
- Pest15 Type:** W **Code:** CHEAL *Chenopodium album*
Common Name: Common lambsquarters
- Pest16 Type:** W **Code:** SOLPT *Solanum ptycanthum*
Common Name: Eastern black nightshade

Site and Design

Plot Width, Unit: 6.67 FT
Plot Length, Unit: 30 FT
Plot Area, Unit: 200.1 FT²
Replications: 3

Site Type: FIELD field
Experimental Unit: 1 PLOT plot
Tillage Type: NOTILL no-till
Study Design: RACOB L Randomized Complete Block (RCB)
Untreated Arrangement: INCLUDED single control randomized in each block

Soil Description

Description Name: F-10 West
% OM: 2
pH: 6.3
CEC: 12

Texture: SIL silt loam
Soil Name: Crosby
Fert. Level: G good
Soil Drainage: G good

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Application Description

	A	B	C	D
Application Date:	3/21/11	4/21/11	5/24/11	5/30/11
Time of Day:	9:30 A.M.	9:00 A.M.	10:00 A.M	10:00 A.M
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	MARCH	7 EPP		
Application Placement:	BROFO	BROFO	BROFOL	BROFOL
Applied By:	DOBBELS	McCormick	Dobbels	Dobbels
Air Temperature, Unit:	65 F	43 F	69 F	84 F
% Relative Humidity:	74	64	62.5	75
Wind Velocity, Unit:	7 MPH	6 MPH	2 MPH	4 MPH
Wind Direction:	SSW	NNE	E	WSW
Dew Presence (Y/N):	N no	N no	N no	N no
Soil Temperature, Unit:	48 F	42 F	61 F	69 F
Soil Moisture:	MOIST	WET	WET	MOIST
% Cloud Cover:	100	5	100	0
Next Rain Occurred On:	3/22/11	4/22/11	5/25/11	6/4/11

Crop Stage At Each Application

	A	B	C	D
Crop 1 Code, BBCH Scale:	GLXMA	BSOY GLXMA	BSOY GLXMA	BSOY GLXMA

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Pest Stage At Each Application

	A		B		C		D	
Pest 1 Code, Type, Scale:	LAMPU	W	LAMPU	W	LAMPU	W	LAMPU	W
Stage Majority, Percent:	19	100	67	100				
Diameter, Unit:	3	IN	3	IN				
Height, Unit:	1	IN	5	IN				
Height Minimum, Maximum:	0.5	1	3	5				
Pest 2 Code, Type, Scale:	STEME	W	STEME	W	STEME	W	STEME	W
Stage Majority, Percent:	19	100	67	100				
Diameter, Unit:	4	IN	6	IN	3	IN	8	IN
Height, Unit:	1	IN	1	IN	1	IN	2	IN
Height Minimum, Maximum:	0.5	1	1	2	1	1	1	1
Density, Unit:	6.66	M2	6.66	M2	6.66	M3	6.66	M2
Pest 3 Code, Type, Scale:	CAPBP	W	CAPBP	W	CAPBP	W	CAPBP	W
Stage Majority, Percent:	19	100	67	100				
Diameter, Unit:	3	IN	4	IN	2	IN		
Height, Unit:	0.5	IN	8	IN	10	IN		
Height Minimum, Maximum:	0.25	0.5	6	10	10	12		
Pest 4 Code, Type, Scale:	ERYRE	W	ERYRE	W	ERYRE	W	ERYRE	W
Stage Majority, Percent:	19	100						
Diameter, Unit:			3	IN				
Height, Unit:			4	IN				
Height Minimum, Maximum:			4	6				
Pest 5 Code, Type, Scale:	TAROF	W	TAROF	W	TAROF	W	TAROF	W
Stage Majority, Percent:			69	90				
Stage Minimum, Percent:			67	10				
Stage Maximum, Percent:			69	90				
Diameter, Unit:			8	IN	5	IN	12	IN
Height, Unit:			1	IN	8	IN	3	IN
Height Minimum, Maximum:			1	2	7	9	3	4
Density, Unit:	5.33	M2	5.33	M2	5.33	M2	5.33	M2
Pest 6 Code, Type, Scale:	AMBEL	W	AMBEL	W	AMBEL	W	AMBEL	W
Diameter, Unit:					8	IN		
Height, Unit:					10	IN	3	IN
Height Minimum, Maximum:					9	11	2	3
Density, Unit:	6.66	M2	6.66	M2	6.66	M2	6.66	M2
Pest 7 Code, Type, Scale:	RANAB	W	RANAB	W	RANAB	W	RANAB	W
Diameter, Unit:					1	IN	2	IN
Height, Unit:					2	IN	4	IN
Height Minimum, Maximum:					2	3	4	4
Pest 8 Code, Type, Scale:	ERICA	W	ERICA	W	ERICA	W	ERICA	W
Diameter, Unit:							3	IN
Height, Unit:							4	IN
Height Minimum, Maximum:							3	4
Density, Unit:	17.33	M2	17.33	M2	17.33	M2	17.33	M2
Pest 9 Code, Type, Scale:	AMBTR	W	AMBTR	W	AMBTR	W	AMBTR	W
Height Minimum, Maximum:							5	10
Density, Unit:	16	M2	16	M2	16	M2	16	M2
Pest10 Code, Type, Scale:	VERAG	W	VERAG	W	VERAG	W	VERAG	W
Diameter, Unit:							5	IN
Height, Unit:							2	IN
Height Minimum, Maximum:							1	2
Pest11 Code, Type, Scale:	BROTE	W	BROTE	W	BROTE	W	BROTE	W
Density, Unit:	4	M2	4	M2	4	M2	4	M2
Pest12 Code, Type, Scale:	SETFA	W	SETFA	W	SETFA	W	SETFA	W
Density, Unit:	12	M2	12	M2	12	M2	12	M2
Pest13 Code, Type, Scale:	ECHCG	W	ECHCG	W	ECHCG	W	ECHCG	W
Density, Unit:	6.66	M2	6.66	M2	6.66	M2	6.66	M2
Pest14 Code, Type, Scale:	ERICA	W	ERICA	W	ERICA	W	ERICA	W
Density, Unit:	17.33	M2	17.33	M2	17.33	M2	17.33	M2
Pest15 Code, Type, Scale:	CHEAL	W	CHEAL	W	CHEAL	W	CHEAL	W
Density, Unit:	1.33	M2	1.33	M2	1.33	M2	1.33	M2
Pest16 Code, Type, Scale:	SOLPT	W	SOLPT	W	SOLPT	W	SOLPT	W
Density, Unit:	5.33	M2	5.33	M2	5.33	M2	5.33	M2

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Application Equipment

	A	B	C	D
Appl. Equipment:	BACKPACK	6 foot boom		
Equipment Type:	SPRBAC	SPRBAC		
Operating Pressure, Unit:	34 PSI	34 PSI		
Nozzle Type:	TEEJET DG	TEEJET DG		
Nozzle Size:	110015	80015		
Nozzle Spacing, Unit:	18 IN	18 IN		
Boom Length, Unit:	6.67 FT	6 FT		
Boom Height, Unit:	20 IN	20 IN		
Ground Speed, Unit:	3 MPH	3 MPH		
Carrier:	WATER	WATER		
Spray Volume, Unit:	15 GPA	15 GPA		
Mix Size, Unit:	3 Liters	0.33 Gallons		
Propellant:	CO2	CO2		

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Trial ID: 11IGTIME(WARS)
Location: WESTERN BRANCH F-10 W
Project ID:

Protocol ID: 11IGTIME(WARS)
Study Director: Anthony F. Dobbels
Investigator: Dr. Mark M. Loux
Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	ERICA	AMBTR	AMBEL	TAROF
Pest Scientific Name	Setaria faberi	Conyza canadensis	Ambrosia trifida	Ambrosia artemisiifolia	Taraxacum officinale
Pest Name	Giant foxtail	Canada horseweed	Giant ragweed	Common ragweed	Common dandelion
Crop Code	GLXMA				
BBCH Scale	BSOY				
Crop Scientific Name	Glycine max				
Crop Name	Soybean				
Rating Date	6/20/11	6/20/11	6/20/11	6/20/11	6/20/11
Rating Type	PHYLCU	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	91 21	91 21	91 21	91 21	91 21
Plant-Eval Interval	29 DP-1	29 DP-1	29 DP-1	29 DP-1	29 DP-1

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate Unit	Appl Code	1	2	3	4	5	6
1	Roundup PowerMax	4.5	22 oz/a		A	1.0	80.0	100.0	66.7	90.0	94.9
	2,4-D Ester	4	1 pt/a		A						
	1 N-PAK AMS	100	1.5 qt/a		A						
	1 Ignite	2.34	22 oz/a		B						
	1 VALOR XLT 4 OZ										
	1 Valor SX	51	2.35 oz/a		B						
	1 Classic	25	1.65 oz/a		B						
2	Roundup PowerMax	4.5	22 oz/a		A	7.0	83.3	93.3	78.3	86.7	92.5
	2,4-D Ester	4	1 pt/a		A						
	2 N-PAK AMS	100	1.5 qt/a		A						
	2 Ignite	2.34	22 oz/a		B						
	2 VALOR XLT 4 OZ										
	2 Valor SX	51	2.35 oz/a		B						
	2 Classic	25	1.65 oz/a		B						
	2 Sencor 75DF	75	4 oz/a		B						
3	Roundup PowerMax	4.5	22 oz/a		A	2.0	73.3	98.3	83.3	93.3	88.9
	2,4-D Ester	4	1 pt/a		A						
	3 N-PAK AMS	100	1.5 qt/a		A						
	3 Ignite	2.34	29 oz/a		B						
	3 VALOR XLT 4 OZ										
	3 Valor SX	51	2.35 oz/a		B						
	3 Classic	25	1.65 oz/a		B						
4	Roundup PowerMax	4.5	22 oz/a		A	1.0	71.7	100.0	65.0	90.0	92.7
	2,4-D Ester	4	1 pt/a		A						
	4 N-PAK AMS	100	1.5 qt/a		A						
	4 Ignite	2.34	29 oz/a		B						
	4 VALOR XLT 4 OZ										
	4 Valor SX	51	2.35 oz/a		B						
	4 Classic	25	1.65 oz/a		B						
	4 Sencor 75DF	75	4 oz/a		B						
5	Roundup PowerMax	4.5	22 oz/a		A	2.0	93.3	100.0	80.0	83.3	89.2
	2,4-D Ester	4	1 pt/a		A						
	5 N-PAK AMS	100	1.5 qt/a		A						
	5 Ignite	2.34	22 oz/a		C						
	5 VALOR XLT 4 OZ										
	5 Valor SX	51	2.35 oz/a		C						
	5 Classic	25	1.65 oz/a		C						
6	Roundup PowerMax	4.5	22 oz/a		A	4.3	93.3	100.0	70.0	76.7	80.3
	2,4-D Ester	4	1 pt/a		A						
	6 N-PAK AMS	100	1.5 qt/a		A						
	6 Ignite	2.34	22 oz/a		C						
	6 VALOR XLT 4 OZ										
	6 Valor SX	51	2.35 oz/a		C						
	6 Classic	25	1.65 oz/a		C						
	6 Sencor 75DF	75	4 oz/a		C						

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	ERICA	AMBTR	AMBEL	TAROF
Pest Scientific Name	Setaria faberi	Conyza canadensis	Ambrosia trifida	Ambrosia artemisiifolia	Taraxacum officinale
Pest Name	Giant foxtail	Canada horseweed	Giant ragweed	Common ragweed	Common dandelion
Crop Code	GLXMA				
BBCH Scale	BSOY				
Crop Scientific Name	Glycine max				
Crop Name	Soybean				
Rating Date	6/20/11	6/20/11	6/20/11	6/20/11	6/20/11
Rating Type	PHYLCU	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	91 21	91 21	91 21	91 21	91 21
Plant-Eval Interval	29 DP-1	29 DP-1	29 DP-1	29 DP-1	29 DP-1

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit Code	1	2	3	4	5	6
7	Roundup PowerMax	4.5	22 oz/a		A	6.3	90.0	98.3	71.7	90.0	72.8
	2,4-D Ester	4	1 pt/a		A						
	N-PAK AMS	100	1.5 qt/a		A						
	Ignite	2.34	29 oz/a		C						
	VALOR XLT 4 OZ										
	Valor SX	51	2.35 oz/a		C						
	Classic	25	1.65 oz/a		C						
8	Roundup PowerMax	4.5	22 oz/a		A	4.3	93.3	100.0	90.0	100.0	69.8
	2,4-D Ester	4	1 pt/a		A						
	N-PAK AMS	100	1.5 qt/a		A						
	Ignite	2.34	29 oz/a		C						
	VALOR XLT 4 OZ										
	Valor SX	51	2.35 oz/a		C						
	Classic	25	1.65 oz/a		C						
	Sencor 75DF	75	4 oz/a		C						
9	Roundup PowerMax	4.5	22 oz/a		A	46.7	96.7	100.0	80.0	80.0	95.5
	2,4-D Ester	4	1 pt/a		A						
	N-PAK AMS	100	1.5 qt/a		A						
	Ignite	2.34	22 oz/a		D						
	VALOR XLT 4 OZ										
	Valor SX	51	2.35 oz/a		D						
	Classic	25	1.65 oz/a		D						
10	Roundup PowerMax	4.5	22 oz/a		A	45.0	88.3	99.7	50.0	56.7	75.5
	2,4-D Ester	4	1 pt/a		A						
	N-PAK AMS	100	1.5 qt/a		A						
	Ignite	2.34	22 oz/a		D						
	VALOR XLT 4 OZ										
	Valor SX	51	2.35 oz/a		D						
	Classic	25	1.65 oz/a		D						
	Sencor 75DF	75	4 oz/a		D						
11	Roundup PowerMax	4.5	22 oz/a		A	38.3	90.0	80.0	66.7	70.0	90.0
	2,4-D Ester	4	1 pt/a		A						
	N-PAK AMS	100	1.5 qt/a		A						
	Ignite	2.34	29 oz/a		D						
	VALOR XLT 4 OZ										
	Valor SX	51	2.35 oz/a		D						
	Classic	25	1.65 oz/a		D						
12	Roundup PowerMax	4.5	22 oz/a		A	38.3	93.3	86.7	78.3	83.3	90.6
	2,4-D Ester	4	1 pt/a		A						
	N-PAK AMS	100	1.5 qt/a		A						
	Ignite	2.34	29 oz/a		D						
	VALOR XLT 4 OZ										
	Valor SX	51	2.35 oz/a		D						
	Classic	25	1.65 oz/a		D						
	Sencor 75DF	75	4 oz/a		D						
13	Ignite	2.34	22 oz/a		B	2.0	73.3	100.0	53.3	100.0	80.7
	VALOR XLT 4 OZ										
	Valor SX	51	2.35 oz/a		B						
	Classic	25	1.65 oz/a		B						
14	Ignite	2.34	22 oz/a		B	0.0	76.7	100.0	86.7	81.5	60.0

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Pest Type	W Weed
Pest Code	SOLPT
Pest Scientific Name	Solanum ptycan>
Pest Name	Eastern black >
Crop Code	
BBCH Scale	
Crop Scientific Name	
Crop Name	
Rating Date	6/20/11
Rating Type	CONTRO
Rating Unit	%
Number of Subsamples	1
Days After First/Last Applic.	91 21
Plant-Eval Interval	29 DP-1

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate Unit	Appl Code	
					7	
1	Roundup PowerMax	4.5	22 oz/a		A	65.1
	1 2,4-D Ester	4	1 pt/a		A	
	1 N-PAK AMS	100	1.5 qt/a		A	
	1 Ignite	2.34	22 oz/a		B	
	1 VALOR XLT 4 OZ					
	1 Valor SX	51	2.35 oz/a		B	
	1 Classic	25	1.65 oz/a		B	
2	Roundup PowerMax	4.5	22 oz/a		A	76.7
	2 2,4-D Ester	4	1 pt/a		A	
	2 N-PAK AMS	100	1.5 qt/a		A	
	2 Ignite	2.34	22 oz/a		B	
	2 VALOR XLT 4 OZ					
	2 Valor SX	51	2.35 oz/a		B	
	2 Classic	25	1.65 oz/a		B	
	2 Sencor 75DF	75	4 oz/a		B	
3	Roundup PowerMax	4.5	22 oz/a		A	80.2
	3 2,4-D Ester	4	1 pt/a		A	
	3 N-PAK AMS	100	1.5 qt/a		A	
	3 Ignite	2.34	29 oz/a		B	
	3 VALOR XLT 4 OZ					
	3 Valor SX	51	2.35 oz/a		B	
	3 Classic	25	1.65 oz/a		B	
4	Roundup PowerMax	4.5	22 oz/a		A	90.3
	4 2,4-D Ester	4	1 pt/a		A	
	4 N-PAK AMS	100	1.5 qt/a		A	
	4 Ignite	2.34	29 oz/a		B	
	4 VALOR XLT 4 OZ					
	4 Valor SX	51	2.35 oz/a		B	
	4 Classic	25	1.65 oz/a		B	
	4 Sencor 75DF	75	4 oz/a		B	
5	Roundup PowerMax	4.5	22 oz/a		A	92.9
	5 2,4-D Ester	4	1 pt/a		A	
	5 N-PAK AMS	100	1.5 qt/a		A	
	5 Ignite	2.34	22 oz/a		C	
	5 VALOR XLT 4 OZ					
	5 Valor SX	51	2.35 oz/a		C	
	5 Classic	25	1.65 oz/a		C	
6	Roundup PowerMax	4.5	22 oz/a		A	88.0
	6 2,4-D Ester	4	1 pt/a		A	
	6 N-PAK AMS	100	1.5 qt/a		A	
	6 Ignite	2.34	22 oz/a		C	
	6 VALOR XLT 4 OZ					
	6 Valor SX	51	2.35 oz/a		C	
	6 Classic	25	1.65 oz/a		C	
	6 Sencor 75DF	75	4 oz/a		C	

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Pest Type W Weed
 Pest Code SOLPT
 Pest Scientific Name Solanum ptycan>
 Pest Name Eastern black >
 Crop Code
 BBCH Scale
 Crop Scientific Name
 Crop Name
 Rating Date 6/20/11
 Rating Type CONTRO
 Rating Unit %
 Number of Subsamples 1
 Days After First/Last Applic. 91 21
 Plant-Eval Interval 29 DP-1

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit Code	
						7
7	Roundup PowerMax	4.5	22 oz/a		A	87.6
	2,4-D Ester	4	1 pt/a		A	
	N-PAK AMS	100	1.5 qt/a		A	
	Ignite	2.34	29 oz/a		C	
	VALOR XLT 4 OZ					
	Valor SX	51	2.35 oz/a		C	
	Classic	25	1.65 oz/a		C	
8	Roundup PowerMax	4.5	22 oz/a		A	88.1
	2,4-D Ester	4	1 pt/a		A	
	N-PAK AMS	100	1.5 qt/a		A	
	Ignite	2.34	29 oz/a		C	
	VALOR XLT 4 OZ					
	Valor SX	51	2.35 oz/a		C	
	Classic	25	1.65 oz/a		C	
	Sencor 75DF	75	4 oz/a		C	
9	Roundup PowerMax	4.5	22 oz/a		A	88.0
	2,4-D Ester	4	1 pt/a		A	
	N-PAK AMS	100	1.5 qt/a		A	
	Ignite	2.34	22 oz/a		D	
	VALOR XLT 4 OZ					
	Valor SX	51	2.35 oz/a		D	
	Classic	25	1.65 oz/a		D	
10	Roundup PowerMax	4.5	22 oz/a		A	88.3
	2,4-D Ester	4	1 pt/a		A	
	N-PAK AMS	100	1.5 qt/a		A	
	Ignite	2.34	22 oz/a		D	
	VALOR XLT 4 OZ					
	Valor SX	51	2.35 oz/a		D	
	Classic	25	1.65 oz/a		D	
	Sencor 75DF	75	4 oz/a		D	
11	Roundup PowerMax	4.5	22 oz/a		A	88.6
	2,4-D Ester	4	1 pt/a		A	
	N-PAK AMS	100	1.5 qt/a		A	
	Ignite	2.34	29 oz/a		D	
	VALOR XLT 4 OZ					
	Valor SX	51	2.35 oz/a		D	
	Classic	25	1.65 oz/a		D	
12	Roundup PowerMax	4.5	22 oz/a		A	96.7
	2,4-D Ester	4	1 pt/a		A	
	N-PAK AMS	100	1.5 qt/a		A	
	Ignite	2.34	29 oz/a		D	
	VALOR XLT 4 OZ					
	Valor SX	51	2.35 oz/a		D	
	Classic	25	1.65 oz/a		D	
	Sencor 75DF	75	4 oz/a		D	
13	Ignite	2.34	22 oz/a		B	
	VALOR XLT 4 OZ					
	Valor SX	51	2.35 oz/a		B	
	Classic	25	1.65 oz/a		B	
14	Ignite	2.34	22 oz/a		B	75.0

Ohio State University Horticulture and Crop Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	ERICA	AMBTR	AMBEL	TAROF
Pest Scientific Name	Setaria faberi	Conyza canadensis	Ambrosia trifida	Ambrosia artemisiifolia	Taraxacum officinale
Pest Name	Giant foxtail	Canada horseweed	Giant ragweed	Common ragweed	Common dandelion
Crop Code	GLXMA				
BBCH Scale	BSOY				
Crop Scientific Name	Glycine max				
Crop Name	Soybean				
Rating Date	6/20/11	6/20/11	6/20/11	6/20/11	6/20/11
Rating Type	PHYLCU	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	91 21	91 21	91 21	91 21	91 21
Plant-Eval Interval	29 DP-1	29 DP-1	29 DP-1	29 DP-1	29 DP-1

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit Code	1	2	3	4	5	6
14	VALOR XLT 4 OZ										
	14 Valor SX	51	2.35 oz/a		B						
	14 Classic	25	1.65 oz/a		B						
	14 Sencor 75DF	75	4 oz/a		B						
15	Ignite	2.34	29 oz/a		B	1.0	73.3	90.0	60.0	71.5	70.4
	15 VALOR XLT 4 OZ										
	15 Valor SX	51	2.35 oz/a		B						
	15 Classic	25	1.65 oz/a		B						
16	Ignite	2.34	29 oz/a		B	2.7	76.7	91.7	40.0	100.0	80.0
	16 VALOR XLT 4 OZ										
	16 Valor SX	51	2.35 oz/a		B						
	16 Classic	25	1.65 oz/a		B						
	16 Sencor 75DF	75	4 oz/a		B						
17	Ignite	2.34	22 oz/a		C	7.7	93.3	93.3	76.7	100.0	70.4
	17 VALOR XLT 4 OZ										
	17 Valor SX	51	2.35 oz/a		C						
	17 Classic	25	1.65 oz/a		C						
18	Ignite	2.34	22 oz/a		C	2.7	91.7	100.0	88.3	100.0	70.8
	18 VALOR XLT 4 OZ										
	18 Valor SX	51	2.35 oz/a		C						
	18 Classic	25	1.65 oz/a		C						
	18 Sencor 75DF	75	4 oz/a		C						
19	Ignite	2.34	29 oz/a		C	2.7	90.0	83.3	81.7	100.0	50.7
	19 VALOR XLT 4 OZ										
	19 Valor SX	51	2.35 oz/a		C						
	19 Classic	25	1.65 oz/a		C						
20	Ignite	2.34	29 oz/a		C	2.3	86.7	100.0	83.3	100.0	70.9
	20 VALOR XLT 4 OZ										
	20 Valor SX	51	2.35 oz/a		C						
	20 Classic	25	1.65 oz/a		C						
	20 Sencor 75DF	75	4 oz/a		C						
21	Ignite	2.34	22 oz/a		D	22.7	90.0	95.0	88.3	100.0	50.9
	21 VALOR XLT 4 OZ										
	21 Valor SX	51	2.35 oz/a		D						
	21 Classic	25	1.65 oz/a		D						
22	Ignite	2.34	22 oz/a		D	23.3	93.3	79.7	78.3	83.3	93.5
	22 VALOR XLT 4 OZ										
	22 Valor SX	51	2.35 oz/a		D						
	22 Classic	25	1.65 oz/a		D						
	22 Sencor 75DF	75	4 oz/a		D						
23	Ignite	2.34	29 oz/a		D	23.3	95.0	81.7	86.7	90.0	86.0
	23 VALOR XLT 4 OZ										
	23 Valor SX	51	2.35 oz/a		D						
	23 Classic	25	1.65 oz/a		D						
24	Ignite	2.34	29 oz/a		D	11.7	91.7	100.0	75.0	100.0	85.0
	24 VALOR XLT 4 OZ										
	24 Valor SX	51	2.35 oz/a		D						
	24 Classic	25	1.65 oz/a		D						

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Pest Type W Weed
 Pest Code SOLPT
 Pest Scientific Name Solanum ptycan>
 Pest Name Eastern black >
 Crop Code
 BBCH Scale
 Crop Scientific Name
 Crop Name
 Rating Date 6/20/11
 Rating Type CONTRO
 Rating Unit %
 Number of Subsamples 1
 Days After First/Last Applic. 91 21
 Plant-Eval Interval 29 DP-1

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Unit	Appl Code	
							7
14	VALOR XLT 4 OZ						
	14 Valor SX	51	2.35 oz/a			B	
	14 Classic	25	1.65 oz/a			B	
	14 Sencor 75DF	75	4 oz/a			B	
15	Ignite	2.34	29 oz/a			B	78.9
	15 VALOR XLT 4 OZ						
	15 Valor SX	51	2.35 oz/a			B	
	15 Classic	25	1.65 oz/a			B	
16	Ignite	2.34	29 oz/a			B	38.6
	16 VALOR XLT 4 OZ						
	16 Valor SX	51	2.35 oz/a			B	
	16 Classic	25	1.65 oz/a			B	
	16 Sencor 75DF	75	4 oz/a			B	
17	Ignite	2.34	22 oz/a			C	89.1
	17 VALOR XLT 4 OZ						
	17 Valor SX	51	2.35 oz/a			C	
	17 Classic	25	1.65 oz/a			C	
18	Ignite	2.34	22 oz/a			C	93.7
	18 VALOR XLT 4 OZ						
	18 Valor SX	51	2.35 oz/a			C	
	18 Classic	25	1.65 oz/a			C	
	18 Sencor 75DF	75	4 oz/a			C	
19	Ignite	2.34	29 oz/a			C	93.8
	19 VALOR XLT 4 OZ						
	19 Valor SX	51	2.35 oz/a			C	
	19 Classic	25	1.65 oz/a			C	
20	Ignite	2.34	29 oz/a			C	
	20 VALOR XLT 4 OZ						
	20 Valor SX	51	2.35 oz/a			C	
	20 Classic	25	1.65 oz/a			C	
	20 Sencor 75DF	75	4 oz/a			C	
21	Ignite	2.34	22 oz/a			D	
	21 VALOR XLT 4 OZ						
	21 Valor SX	51	2.35 oz/a			D	
	21 Classic	25	1.65 oz/a			D	
22	Ignite	2.34	22 oz/a			D	94.1
	22 VALOR XLT 4 OZ						
	22 Valor SX	51	2.35 oz/a			D	
	22 Classic	25	1.65 oz/a			D	
	22 Sencor 75DF	75	4 oz/a			D	
23	Ignite	2.34	29 oz/a			D	
	23 VALOR XLT 4 OZ						
	23 Valor SX	51	2.35 oz/a			D	
	23 Classic	25	1.65 oz/a			D	
24	Ignite	2.34	29 oz/a			D	
	24 VALOR XLT 4 OZ						
	24 Valor SX	51	2.35 oz/a			D	
	24 Classic	25	1.65 oz/a			D	

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Pest Type W Weed
 Pest Code SOLPT
 Pest Scientific Name Solanum ptycan>
 Pest Name Eastern black >
 Crop Code
 BBCH Scale
 Crop Scientific Name
 Crop Name
 Rating Date 6/20/11
 Rating Type CONTRO
 Rating Unit %
 Number of Subsamples 1
 Days After First/Last Applic. 91 21
 Plant-Eval Interval 29 DP-1

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit Code
24	Sencor 75DF	75	4 oz/a		D
25	Roundup PowerMax	4.5	22 oz/a		B
25	2,4-D Ester	4	1 pt/a		B
25	VALOR XLT 4 OZ				
25	Valor SX	51	2.35 oz/a		B
25	Classic	25	1.65 oz/a		B
25	N-PAK AMS	100	1.5 qt/a		B

26 UTC 4.1

LSD (P=.05) 29.04
 Standard Deviation 16.46
 CV 20.61
 Bartlett's X2 5.486
 P(Bartlett's X2) 0.705

Replicate F 8.496
 Replicate Prob(F) 0.0044
 Treatment F 5.437
 Treatment Prob(F) 0.0016

Ohio State University Horticulture and Crop Science

Ignite Timing Study

Title No. 2:

Trial ID: 11IGTIME(WARS)
Location: WESTERN BRANCH F-10 W
Project ID:

Protocol ID: 11IGTIME(WARS)
Study Director: Anthony F. Dobbels
Investigator: Dr. Mark M. Loux
Sponsor Contact:

Pest Type

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

Pest Code

SETFA, *Setaria faberi*, = US
ERICA, *Conyza canadensis*, = US
AMBTR, *Ambrosia trifida*, = US
AMBEL, *Ambrosia artemisiifolia*, = US
TAROF, *Taraxacum officinale*, = US
SOLPT, *Solanum ptycanthum*, = US

Crop Code

GLXMA, BSOY, *Glycine max*, = US

Rating Type

PHYLCU = phytotoxicity - leaf curl
CONTRO = control / burndown or knockdown

Rating Unit

% = percent

Plant-Eval Interval

29 DP-1 = 1 5/22/11