

# The Ohio State University

## Valent Actives in a Roundup Xten System - No Tillage

Trial ID: 20VALENTRRXNT  
 Protocol ID: FIERCEMD64.05  
 Project ID:

Location: Western Branch F-9 East Trial Year: 2020  
 Investigator: Dr. Mark M. Loux  
 Study Director: Anthony Dobbels  
 Sponsor Contact: Eric Ott, Valent

### General Trial Information

Study Director: a  
 Investigator: Dr. Mark M. Loux

Trial Status: E established

ARM Trial Created On: Mar-27-2020

### Trial Location

Address (Location): 7721 South Charleston Pike  
 City: South Charleston Country: USA United States  
 State/Prov.: Ohio  
 Postal Code: 45368

Latitude of LL Corner °: 39.85875 N  
 Longitude of LL Corner °: -83.67144 W  
 Altitude of LL Corner: 1095.00 FT

Conducted Under GLP: No  
 Conducted Under GEP: No

### Contacts

Study Director: a

Investigator: Dr. Mark M. Loux

### Crop Description

Crop 1: C GLXMA Glycine max  
 Entry Date: May-8-2020  
 Variety: SC8320X  
 Attributes: Glyphosate, Dicamba Tolerance  
 Seed Lot No: BEWCQ13016-00-0038  
 % Germination: 90

Soybean

BBCH Scale: BSOY

Stage Scale: BBCH

Seed Source: Seed Consultants

Seed Size: 2600 S/LB  
 Seed Treatment Products: Lumigen

Planting Rate: 175000 S/A

Planting Date: May-7-2020

Depth: 1.5 IN

Rows per Plot: 4

Row Spacing: 30 IN

Planting Method: PLANTD planted

Planting Equipment: FE field equipment

Seed Bed: MEDTRA medium/trashy

Soil Moisture: NORMAL normal, adequate

Soil Temperature: 50 F

Emergence Date: May-25-2020

Harvest Date: Oct-8-2020

Moisture Meter: Harvest Master

% Standard Moisture: 13

Weighing Equipment: Harvest Master HM800

Harvest Equipment: Kincaid 8XP

Harvested Width: 5 FT

Harvested Length: 30 FT

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### Pest Description

**Pest 1 Type:** W **Code:** STEME *Stellaria media*  
**Common Name:** Common chickweed **Entry Date:** Apr-28-2020

**Pest 2 Type:** W **Code:** LAMPU *Lamium purpureum*  
**Common Name:** Purple deadnettle **Entry Date:** Apr-28-2020

**Pest 3 Type:** W **Code:** LAMAM *Lamium amplexicaule*  
**Common Name:** Henbit **Entry Date:** Apr-28-2020

**Pest 4 Type:** W **Code:** CARPE *Cardamine pensylvanica*  
**Common Name:** Pennsylvania bittercress **Entry Date:** Apr-28-2020

**Pest 5 Type:** W **Code:** RANAB *Ranunculus abortivus*  
**Common Name:** Smallflower buttercup **Entry Date:** Apr-28-2020

**Pest 6 Type:** W **Code:** VERAG *Veronica agrestis*  
**Common Name:** Field speedwell **Entry Date:** Apr-28-2020

**Pest 7 Type:** W **Code:** AMBTR *Ambrosia trifida*  
**Common Name:** Giant ragweed **Entry Date:** Apr-28-2020

**Pest 8 Type:** W **Code:** SETFA *Setaria faberi*  
**Common Name:** foxtail, giant **Entry Date:** Jun-22-2020

**Pest 9 Type:** W **Code:** ERICA *Conyza canadensis*  
**Common Name:** horseweed **Entry Date:** Jun-22-2020

**Pest10 Type:** W **Code:** AMBEL *Ambrosia artemisiifolia*  
**Common Name:** Common ragweed **Entry Date:** Jun-22-2020

**Pest11 Type:** W **Code:** CHEAL *Chenopodium album*  
**Common Name:** lambsquarters, common **Entry Date:** Jun-22-2020

**Pest12 Type:** W **Code:** POLPY *Polygonum pensylvanicum*  
**Common Name:** smartweed, Pennsylvania **Entry Date:** Jun-22-2020

### 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 FT<sup>2</sup> **Treatments:** 10 **Tillage Type:** NOTILL no-till  
**Replications:** 3 **Study Design:** RACOB� Randomized Complete Block (RCB)

### Previous

**No. Crop Year**  
 1. SOYBEAN 2019

### Soil Description

**Description Name:** F-9 E **Texture:** SICL silty clay loam  
**% Sand:** 36 **% OM:** 3 **pH:** 6.4 **Soil Name:** Kokomo  
**% Silt:** 49 **CEC:** 17.8 **Fert. Level:** G good  
**% Clay:** 15  
**Soil Drainage:** G good

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### Application Description

	A	B
Application Date	Apr-24-2020	Jun-18-2020
Appl. Start Time	2:30 PM	9:00 AM
Appl. Stop Time	3:00 PM	9:30 AM
Interval to Prev. Appl.		55 DAYS
Application Method	SPRAY	SPRAY
Application Timing	14 EPP	POST
Application Placement	BROFOL	BROFOL
Applied By	Dobbels	Loux
Appl. Entry Date	Apr-28-2020	Jun-22-2020
Air Temperature Start, Stop	62 62 F	69 69 F
% Relative Humidity Start, Stop	66 66	79 79
Wind Velocity+Dir. Start	10 MPH N	3 MPH NE
Wind Velocity+Dir. Stop	10 MPH N	3 MPH NE
Wind Velocity+Dir. Max	11 MPH N	3 MPH NE
Wet Leaves (Y/N)	N no	N no
Soil Temperature	58 F	68 F
Soil Moisture	NORMAL	DRY
Soil Surface Condition	MEDTRA	MEDTRA
% Cloud Cover	25	70
Next Moisture Occurred On	Apr-25-2020	Jun-18-2020
Time to Next Moisture	1 DAY	5 HR
Moisture 6 Hours after Appl.	0 IN	0.05 IN
Moisture 1 Week after Appl.	1.15 IN	0.90 IN

### Crop Stage At Each Application

	A		B	
Crop 1 Code, BBCH Scale	GLXMA	BSOY	GLXMA	BSOY
Days after Emergence	-31		24	
Stage Majority, Percent			13	100
Height Average			6	IN
Height Minimum, Maximum			5	6

### Pest Stage At Each Application

	A		B	
Pest 1 Code, Type, Scale	STEME	W	STEME	W
Stage Majority, Percent	65	90		
Stage Minimum, Percent	67	10		
Stage Maximum, Percent	67	10		
Diameter	4	IN		
Height Average	1	IN		
Height Minimum, Maximum	1	2		
Density Average	6	PLA/m2		
Density Min, Max	2	10		
Pest 2 Code, Type, Scale	LAMPU	W	LAMPU	W
Stage Majority, Percent	65	90		
Stage Minimum, Percent	69	10		
Stage Maximum, Percent	69	10		
Diameter	3	IN		
Height Average	4	IN		
Height Minimum, Maximum	3	4		
Density Average	3	PLA/M2		
Density Min, Max	3	6		
Pest 3 Code, Type, Scale	LAMAM	W	LAMAM	W
Stage Majority, Percent	65	80		
Stage Minimum, Percent	66	10		
Stage Maximum, Percent	69	10		
Diameter	2	IN		
Height Average	3	IN		
Height Minimum, Maximum	3	4		
Density Average	2	PLA/M2		
Density Min, Max	1	4		
Pest 4 Code, Type, Scale	CARPE	W	CARPE	W
Stage Majority, Percent	69	90		
Stage Minimum, Percent	65	10		
Stage Maximum, Percent	69	90		
Diameter	2	IN		
Height Average	3	IN		
Height Minimum, Maximum	2	3		
Density Average	3	PLA/M2		
Density Min, Max	1	5		
Pest 5 Code, Type, Scale	RANAB	W	RANAB	W
Stage Majority, Percent	14	90		
Stage Minimum, Percent	12	10		

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Stage Maximum, Percent	14	90		
Diameter	3	IN		
Height Average	3	IN		
Height Minimum, Maximum	2	3		
Density Average	1	PLA/M2		
Density Min, Max	0	3		
Pest 6 Code, Type, Scale	VERAG	W	VERAG	W
Stage Majority, Percent	65	80	19	100
Stage Minimum, Percent	62	10		
Stage Maximum, Percent	69	10		
Diameter	4	IN		
Height Average	0.5	IN	6	IN
Height Minimum, Maximum	0.5	1	4	8
Density Average	2	PLA/M2		
Density Min, Max	0	3		
Pest 7 Code, Type, Scale	AMBTR	W	AMBTR	W
Stage Majority, Percent	10	90	17	80
Stage Minimum, Percent	12	10	14	
Stage Maximum, Percent	12	10	19	
Diameter	1	IN		
Height Average	1	IN	8	IN
Height Minimum, Maximum	1	1.5	4	12
Density Average	4	PLA/M2	16.33	PLA/m2
Density Min, Max	0	6	13	20
Pest 8 Code, Type, Scale	SETFA	W	SETFA	W
Stage Majority, Percent			17	80
Stage Minimum, Percent			14	10
Stage Maximum, Percent			19	10
Height Average			5	IN
Height Minimum, Maximum			3	8
Density Average			56.6	PLA/m2
Density Min, Max			30	80
Pest 9 Code, Type, Scale	ERICA	W	ERICA	W
Stage Majority, Percent			19	100
Height Average			4	IN
Height Minimum, Maximum			2	6
Density Average			2.33	PLA/m2
Density Min, Max			2	3
Pest10 Code, Type, Scale	AMBEL	W	AMBEL	W
Stage Majority, Percent			18	90
Stage Minimum, Percent			18	90
Stage Maximum, Percent			19	10
Height Average			5	IN
Height Minimum, Maximum			4	6
Density Average			3.33	PLA/m2
Density Min, Max			2	4
Pest11 Code, Type, Scale	CHEAL	W	CHEAL	W
Stage Majority, Percent			14	70
Stage Minimum, Percent			14	70
Stage Maximum, Percent			16	20
Height Average			2.5	IN
Height Minimum, Maximum			1	4
Density Average			1.33	PLA/m2
Density Min, Max			0	3
Pest12 Code, Type, Scale	POLPY	W	POLPY	W
Stage Majority, Percent			17	80
Stage Minimum, Percent			16	
Stage Maximum, Percent			19	
Height Average			4.5	IN
Height Minimum, Maximum			3	6
Density Average			2.66	PLA/m2
Density Min, Max			1	6

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### Application Equipment

	A	B
Appl. Equipment	6 Foot TTI	6' TTI
Equipment Type	BACCAI	BACCAI
Operation Pressure	48 PSI	44 PSI
Nozzle Type	TTI	TTI
Nozzle Size	110015	1110015
Nozzle Spacing	18 IN	18 IN
Boom Length	6.67 FT	6.67 FT
Boom Height	20 IN	20 IN
Ground Speed	3 MPH	3 MPH
Carrier	WATER	WATER
Application Amount	15 GAL/AC	15 GAL/AC
Mix Size	1 L	1 L
Propellant	COMCO2	COMCO2

Context	Date	By	Notes
STATUS	Mar-27-2020	Dr. Mark M. Loux	Automatically added by ARM: Trial Status updated to 'S' during trial creation.
STATUS	Apr-28-2020	Dr. Mark M. Loux	Automatically added by ARM: Trial Status updated to 'E' when Application Date entered.

Pest Type			
Pest Code			
Pest Scientific Name			
Pest Name			
Crop Type, Code	C GLXMA	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean
Rating Date	Oct-8-2020	Oct-8-2020	Oct-8-2020
Rating Type	YIELD	MOICON	YIELD
Rating Unit	LBS	%	BU
Number of Subsamples	1	1	1
Data Entry Date	Oct-12-2020	Oct-12-2020	
Rating Timing			
Days After First/Last Applic.	167 112	167 112	167 112
Trt-Eval Interval			
Plant-Eval Interval	154 DP-1	154 DP-1	154 DP-1
Days After Emergence	136 DE-1	136 DE-1	136 DE-1
ARM Action Codes			TY1
Number of Decimals	2	2	1

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Appl Code	26*	27*	28*
1							4.33 b	12.60 -	21.1 b
2	Roundup Powermax	1.13 lb	ae/a	32 oz/a		A	12.64 a	11.63 -	62.1 a
2	Xtendimax	0.5 lb	ae/a	22 oz/a		A			
2	Induce	0.25 %	v/v	0.25 % v/v		A			
2	In-Place	0.25 %	v/v	0.25 % v/v		A			
2	Roundup Powermax	1.13 lb	ae/a	32 oz/a		B			
2	Xtendimax	0.5 lb	ae/a	22 oz/a		B			
2	Select Max	0.07 lb	ai/a	9 oz/a		B			
2	Induce	0.25 %	v/v	0.25 % v/v		B			
2	In-Place	0.25 %	v/v	0.25 % v/v		B			
3	Roundup Powermax	1.13 lb	ae/a	32 oz/a		A	12.92 a	12.17 -	63.2 a
3	Xtendimax	0.5 lb	ae/a	22 oz/a		A			
3	Induce	0.25 %	v/v	0.25 % v/v		A			
3	In-Place	0.25 %	v/v	0.25 % v/v		A			
3	Roundup Powermax	1.13 lb	ae/a	32 oz/a		B			
3	Xtendimax	0.5 lb	ae/a	22 oz/a		B			
3	Perpetuo	0.108 lb	ai/a	6 oz/a		B			
3	Select Max	0.07 lb	ai/a	9 oz/a		B			
3	Induce	0.25 %	v/v	0.25 % v/v		B			
3	In-Place	0.25 %	v/v	0.25 % v/v		B			

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Pest Type			
Pest Code			
Pest Scientific Name			
Pest Name			
Crop Type, Code	C GLXMA	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean
Rating Date	Oct-8-2020	Oct-8-2020	Oct-8-2020
Rating Type	YIELD	MOICON	YIELD
Rating Unit	LBS	%	BU
Number of Subsamples	1	1	1
Data Entry Date	Oct-12-2020	Oct-12-2020	
Rating Timing			
Days After First/Last Applic.	167 112	167 112	167 112
Trt-Eval Interval			
Plant-Eval Interval	154 DP-1	154 DP-1	154 DP-1
Days After Emergence	136 DE-1	136 DE-1	136 DE-1
ARM Action Codes			TY1
Number of Decimals	2	2	1

Trt No.	Treatment Name	Rate	Other Rate	Other Unit	Appl Code	26*	27*	28*
4	Roundup Powermax	1.13 lb ae/a	32 oz/a		A	13.50 a	12.66 -	65.6 a
4	Xtendimax	0.5 lb ae/a	22 oz/a		A			
4	Fierce EZ	0.143 lb ai/a	6 oz/a		A			
4	Induce	0.25 % v/v	0.25 % v/v		A			
4	In-Place	0.25 % v/v	0.25 % v/v		A			
4	Roundup Powermax	1.13 lb ae/a	32 oz/a		B			
4	Xtendimax	0.5 lb ae/a	22 oz/a		B			
4	Select Max	0.07 lb ai/a	9 oz/a		B			
4	Induce	0.25 % v/v	0.25 % v/v		B			
4	In-Place	0.25 % v/v	0.25 % v/v		B			
5	Roundup Powermax	1.13 lb ae/a	32 oz/a		A	13.72 a	11.33 -	67.7 a
5	Xtendimax	0.5 lb ae/a	22 oz/a		A			
5	Fierce MTZ	0.33 lb ai/a	1 pt/a		A			
5	Induce	0.25 % v/v	0.25 % v/v		A			
5	In-Place	0.25 % v/v	0.25 % v/v		A			
5	Roundup Powermax	1.13 lb ae/a	32 oz/a		B			
5	Xtendimax	0.5 lb ae/a	22 oz/a		B			
5	Select Max	0.07 lb ai/a	9 oz/a		B			
5	Induce	0.25 % v/v	0.25 % v/v		B			
5	In-Place	0.25 % v/v	0.25 % v/v		B			
6	Roundup Powermax	1.13 lb ae/a	32 oz/a		A	11.90 a	12.07 -	58.2 a
6	Xtendimax	0.5 lb ae/a	22 oz/a		A			
6	Authority MTZ	0.31 lb ai/a	11 oz/a		A			
6	Induce	0.25 % v/v	0.25 % v/v		A			
6	In-Place	0.25 % v/v	0.25 % v/v		A			
6	Roundup Powermax	1.13 lb ae/a	32 oz/a		B			
6	Xtendimax	0.5 lb ae/a	22 oz/a		B			
6	Anthem Maxx	0.084 lb ai/a	2.5 oz/a		B			
6	Select Max	0.07 lb ai/a	9 oz/a		B			
6	Induce	0.25 % v/v	0.25 % v/v		B			
6	In-Place	0.25 % v/v	0.25 % v/v		B			
7	Roundup Powermax	1.13 lb ae/a	32 oz/a		A	13.64 a	12.37 -	66.4 a
7	Xtendimax	0.5 lb ae/a	22 oz/a		A			
7	Zidua Pro	0.192 lb ai/a	6 oz/a		A			
7	Induce	0.25 % v/v	0.25 % v/v		A			
7	In-Place	0.25 % v/v	0.25 % v/v		A			
7	Roundup Powermax	1.13 lb ae/a	32 oz/a		B			
7	Xtendimax	0.5 lb ae/a	22 oz/a		B			
7	Select Max	0.07 lb ai/a	9 oz/a		B			
7	Perpetuo	0.108 lb ai/a	6 oz/a		B			
7	Induce	0.25 % v/v	0.25 % v/v		B			
7	In-Place	0.25 % v/v	0.25 % v/v		B			

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Pest Type					
Pest Code					
Pest Scientific Name					
Pest Name					
Crop Type, Code	C GLXMA	C GLXMA	C GLXMA	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean
Rating Date	Oct-8-2020	Oct-8-2020	Oct-8-2020	Oct-8-2020	Oct-8-2020
Rating Type	YIELD	MOICON	YIELD	YIELD	YIELD
Rating Unit	LBS	%	BU	BU	BU
Number of Subsamples	1	1	1	1	1
Data Entry Date	Oct-12-2020	Oct-12-2020			
Rating Timing					
Days After First/Last Applic.	167	112	167	112	167
Trt-Eval Interval					
Plant-Eval Interval	154 DP-1	154 DP-1	154 DP-1	154 DP-1	154 DP-1
Days After Emergence	136 DE-1	136 DE-1	136 DE-1	136 DE-1	136 DE-1
ARM Action Codes					TY1
Number of Decimals		2		2	1

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit Code	26*	27*	28*
8	Roundup Powermax	1.13 lb ae/a	32 oz/a		A	13.22 a	11.43 -	65.1 a
8	Xtendimax	0.5 lb ae/a	22 oz/a		A			
8	Fierce EZ	0.143 lb ai/a	6 oz/a		A			
8	Induce	0.25 % v/v	0.25 % v/v		A			
8	In-Place	0.25 % v/v	0.25 % v/v		A			
8	Roundup Powermax	1.13 lb ae/a	32 oz/a		B			
8	Xtendimax	0.5 lb ae/a	22 oz/a		B			
8	Perpetuo	0.108 lb ai/a	6 oz/a		B			
8	Select Max	0.07 lb ai/a	9 oz/a		B			
8	Induce	0.25 % v/v	0.25 % v/v		B			
8	In-Place	0.25 % v/v	0.25 % v/v		B			
9	Roundup Powermax	1.13 lb ae/a	32 oz/a		A	13.06 a	12.83 -	63.1 a
9	Xtendimax	0.5 lb ae/a	22 oz/a		A			
9	Fierce MTZ	0.33 lb ai/a	1 pt/a		A			
9	Induce	0.25 % v/v	0.25 % v/v		A			
9	In-Place	0.25 % v/v	0.25 % v/v		A			
9	Roundup Powermax	1.13 lb ae/a	32 oz/a		B			
9	Xtendimax	0.5 lb ae/a	22 oz/a		B			
9	Perpetuo	0.108 lb ai/a	6 oz/a		B			
9	Select Max	0.07 lb ai/a	9 oz/a		B			
9	Induce	0.25 % v/v	0.25 % v/v		B			
9	In-Place	0.25 % v/v	0.25 % v/v		B			
10	Roundup Powermax	1.13 lb ae/a	32 oz/a		A	14.10 a	13.33 -	68.1 a
10	Xtendimax	0.5 lb ae/a	22 oz/a		A			
10	Fierce XLT	0.156 lb ai/a	4 oz/a		A			
10	Induce	0.25 % v/v	0.25 % v/v		A			
10	In-Place	0.25 % v/v	0.25 % v/v		A			
10	Roundup Powermax	1.13 lb ae/a	32 oz/a		B			
10	Xtendimax	0.5 lb ae/a	22 oz/a		B			
10	Select Max	0.07 lb ai/a	9 oz/a		B			
10	Induce	0.25 % v/v	0.25 % v/v		B			
10	In-Place	0.25 % v/v	0.25 % v/v		B			
LSD P=.05						2.438	2.182	11.59
Standard Deviation						1.421	1.272	6.75
CV						11.55	10.39	11.25
Grand Mean						12.303	12.243	60.06
Levene's F						0.436	0.825	0.369
Levene's Prob(F)						0.90	0.601	0.937
Rank X2						.	.	.
P(Rank X2)						.	.	.
Skewness						-1.8907*	2.2511*	-1.9433*
Kurtosis						3.4229*	5.7584*	3.5629*
Replicate F						0.624	0.327	0.569
Replicate Prob(F)						0.5470	0.7250	0.5759
Treatment F						12.227	0.772	12.910
Treatment Prob(F)						0.0001	0.6434	0.0001

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### Crop Type, Code

C = EPPO species (Bayer) codes  
GLXMA, BSOY, Glycine max, Soybean = US

### Rating Type

YIELD = yield  
MOICON = moisture content

### Rating Unit

% = percent  
BU = bushel

### Plant-Eval Interval

154 DP-1 = 1 GLXMA May-7-2020

### ARM Action Codes

TY1 =  $4.84 * [C26] * (100 - [C27]) / 87$