

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

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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 FT2 **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
% Silt: 49 **pH:** 6.4 **Soil Name:** Kokomo
% Clay: 15 **CEC:** 17.8 **Fert. Level:** G good
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	W Weed	W Weed	W Weed	W Weed	
Pest Code	STEME	LAMPU	LAMAM	AMBTR	
Pest Scientific Name	Stellaria media Lamium purpure>		Lamium Ambrosia trifi> amplexi>		
Pest Name	Common chickwe>	Purple deadnet>	Henbit Giant ragweed		
Crop Type, Code					C GLXMA
BBCH Scale					BSOY
Crop Scientific Name					Glycine max
Crop Name					Soybean
Rating Date	May-7-2020	May-7-2020	May-7-2020	May-7-2020	May-25-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYTO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Data Entry Date	May-8-2020	May-8-2020	May-8-2020	May-8-2020	Jun-9-2020
Rating Timing	AT PLANT	AT PLANT	AT PLANT	AT PLANT	
Days After First/Last Applic.	13 13	13 13	13 13	13 13	31 31
Trt-Eval Interval	13 DA-A	13 DA-A	13 DA-A	13 DA-A	31 DA-A
Plant-Eval Interval	0 DP-1	0 DP-1	0 DP-1	0 DP-1	18 DP-1
Days After Emergence	-18 DE-1	-18 DE-1	-18 DE-1	-18 DE-1	0 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Appl Code	1*	2*	3*	4*	5*
1							0 b	0 d	0 d	0 b	0 -
2	Roundup Powermax	1.13 lb	ae/a	32 oz/a		A	60 a	57 bc	40 c	100 a	0 -
	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	60 a	50 c	43 bc	100 a	0 -
	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 Scientific Name	Stellaria media Lamium purpure>		Lamium Ambrosia trifi> amplex>		
Pest Name	Common chickwe>	Purple deadnet>	Henbit Giant ragweed		
Crop Type, Code					C GLXMA
BBCH Scale					BSOY
Crop Scientific Name					Glycine max
Crop Name					Soybean
Rating Date	May-7-2020	May-7-2020	May-7-2020	May-7-2020	May-25-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYTO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Data Entry Date	May-8-2020	May-8-2020	May-8-2020	May-8-2020	Jun-9-2020
Rating Timing	AT PLANT	AT PLANT	AT PLANT	AT PLANT	
Days After First/Last Applic.	13 13	13 13	13 13	13 13	31 31
Trt-Eval Interval	13 DA-A	13 DA-A	13 DA-A	13 DA-A	31 DA-A
Plant-Eval Interval	0 DP-1	0 DP-1	0 DP-1	0 DP-1	18 DP-1
Days After Emergence	-18 DE-1	-18 DE-1	-18 DE-1	-18 DE-1	0 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit Code	1*	2*	3*	4*	5*
4	Roundup Powermax	1.13 lb ae/a	32 oz/a		A	72 a	60 bc	61 abc	100 a	0 -
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	63 a	60 bc	56 bc	100 a	0 -
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	73 a	73 ab	67 ab	100 a	0 -
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	68 a	57 bc	53 bc	100 a	0 -
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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BBCH Scale					BSOY
Crop Scientific Name					Glycine max
Crop Name					Soybean
Rating Date	May-7-2020	May-7-2020	May-7-2020	May-7-2020	May-25-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYTO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Data Entry Date	May-8-2020	May-8-2020	May-8-2020	May-8-2020	Jun-9-2020
Rating Timing	AT PLANT	AT PLANT	AT PLANT	AT PLANT	
Days After First/Last Applic.	13 13	13 13	13 13	13 13	31 31
Trt-Eval Interval	13 DA-A	13 DA-A	13 DA-A	13 DA-A	31 DA-A
Plant-Eval Interval	0 DP-1	0 DP-1	0 DP-1	0 DP-1	18 DP-1
Days After Emergence	-18 DE-1	-18 DE-1	-18 DE-1	-18 DE-1	0 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit Code	1*	2*	3*	4*	5*
8	Roundup Powermax	1.13 lb ae/a	32 oz/a		A	70 a	57 bc	60 abc	100 a	0 -
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	72 a	80 a	80 a	100 a	0 -
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					

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Crop Type, Code					C GLXMA
BBCH Scale					BSOY
Crop Scientific Name					Glycine max
Crop Name					Soybean
Rating Date	May-7-2020	May-7-2020	May-7-2020	May-7-2020	May-25-202
					0
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYTO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Data Entry Date	May-8-2020	May-8-2020	May-8-2020	May-8-2020	Jun-9-2020
Rating Timing	AT PLANT	AT PLANT	AT PLANT	AT PLANT	
Days After First/Last Applic.	13 13	13 13	13 13	13 13	31 31
Trt-Eval Interval	13 DA-A	13 DA-A	13 DA-A	13 DA-A	31 DA-A
Plant-Eval Interval	0 DP-1	0 DP-1	0 DP-1	0 DP-1	18 DP-1
Days After Emergence	-18 DE-1	-18 DE-1	-18 DE-1	-18 DE-1	0 DE-1
Number of Decimals	0	0	0	0	0

Trt Treatment No. Name	Rate Rate Unit	Other Rate	Other Rate Unit	Appl Code	1*	2*	3*	4*	5*
10 Roundup Powermax	1.13 lb ae/a	32 oz/a		A	73 a	58 bc	63 ab	100 a	0 -
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					14.2	18.0	22.9	.	.
Standard Deviation					8.3	10.5	13.2	0.0	0.0
CV					13.56	18.97	25.52	0.0	0.0
Grand Mean					61.2	55.2	51.8	90.0	0.0
Levene's F					0.901	0.705	1.096	0.00	0.00
Levene's Prob(F)					0.542	0.698	0.413	.	.
Rank X2					.	.	.	.	.
P(Rank X2)					.	.	.	.	.
Skewness					-2.1134*	-1.3555*	-0.9293*	-2.8091*	.
Kurtosis					3.8938*	1.6412	0.3059	6.3081*	.
Replicate F					0.812	2.336	0.349	0.000	0.000
Replicate Prob(F)					0.4598	0.1254	0.7103	1.0000	1.0000
Treatment F					21.293	12.417	7.948	0.000	0.000
Treatment Prob(F)					0.0001	0.0001	0.0002	1.0000	1.0000

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

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	ERICA	AMBTR	AMBEL	LAMPU
Pest Scientific Name	Erigeron canad>	Ambrosia trifi>	Ambrosia artem>	Lamium purpure>
Pest Name	Canada horsewe>	Giant ragweed	Common ragweed	Purple deadnet>
Crop Type, Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	May-25-2020	May-25-2020	May-25-2020	May-25-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Data Entry Date	Jun-9-2020	Jun-9-2020	Jun-9-2020	Jun-9-2020
Rating Timing				
Days After First/Last Applic.	31 31	31 31	31 31	31 31
Trt-Eval Interval	31 DA-A	31 DA-A	31 DA-A	31 DA-A
Plant-Eval Interval	18 DP-1	18 DP-1	18 DP-1	18 DP-1
Days After Emergence	0 DE-1	0 DE-1	0 DE-1	0 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Appl Code	6*	7*	8*	9*	
1								0 b	0 c	0 b	0 b
2	Roundup Powermax	1.13 lb	ae/a	32 oz/a		A	100 a	93 b	100 a	99 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	100 a	96 ab	100 a	96 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					

The Ohio State University

Valent Actives in a Roundup Xten System - No Tillage

Trial ID: 20VALENTTRRXNT
 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

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	ERICA	AMBTR	AMBEL	LAMPU
Pest Scientific Name	Erigeron canad>	Ambrosia trifi>	Ambrosia artem>	Lamium purpure>

Pest Name Canada horsewe> Giant ragweed Common ragweed Purple deadnet>

Crop Type, Code

BBCH Scale

Crop Scientific Name

Crop Name

Rating Date

May-25-2020	May-25-2020	May-25-2020	May-25-2020
-------------	-------------	-------------	-------------

Rating Type

CONTRO	CONTRO	CONTRO	CONTRO
--------	--------	--------	--------

Rating Unit

%	%	%	%
---	---	---	---

Number of Subsamples

1	1	1	1
---	---	---	---

Data Entry Date

Jun-9-2020	Jun-9-2020	Jun-9-2020	Jun-9-2020
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Rating Timing

Days After First/Last Applic.

31 31	31 31	31 31	31 31
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Trt-Eval Interval

31 DA-A	31 DA-A	31 DA-A	31 DA-A
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Plant-Eval Interval

18 DP-1	18 DP-1	18 DP-1	18 DP-1
---------	---------	---------	---------

Days After Emergence

0 DE-1	0 DE-1	0 DE-1	0 DE-1
--------	--------	--------	--------

Number of Decimals

0	0	0	0
---	---	---	---

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit Code	6*	7*	8*	9*
4	Roundup Powermax	1.13 lb ae/a	32 oz/a		A	100 a	97 ab	100 a	97 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	100 a	96 ab	100 a	99 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	100 a	95 ab	100 a	98 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	100 a	97 ab	100 a	99 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				

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

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	ERICA	AMBTR	AMBEL	LAMPU
Pest Scientific Name	Erigeron canad>	Ambrosia trifi>	Ambrosia artem>	Lamium purpure>

Pest Name Canada horsewe> Giant ragweed Common ragweed Purple deadnet>

Crop Type, Code

BBCH Scale

Crop Scientific Name

Crop Name

Rating Date

May-25-2020	May-25-2020	May-25-2020	May-25-2020
-------------	-------------	-------------	-------------

Rating Type

CONTRO	CONTRO	CONTRO	CONTRO
--------	--------	--------	--------

Rating Unit

%	%	%	%
---	---	---	---

Number of Subsamples

1	1	1	1
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Data Entry Date

Jun-9-2020	Jun-9-2020	Jun-9-2020	Jun-9-2020
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Rating Timing

Days After First/Last Applic.

31 31	31 31	31 31	31 31
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Trt-Eval Interval

31 DA-A	31 DA-A	31 DA-A	31 DA-A
---------	---------	---------	---------

Plant-Eval Interval

18 DP-1	18 DP-1	18 DP-1	18 DP-1
---------	---------	---------	---------

Days After Emergence

0 DE-1	0 DE-1	0 DE-1	0 DE-1
--------	--------	--------	--------

Number of Decimals

0	0	0	0
---	---	---	---

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit Code	6*	7*	8*	9*
8	Roundup Powermax	1.13 lb ae/a	32 oz/a		A	100 a	99 a	100 a	96 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	100 a	98 ab	100 a	99 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				

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

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	ERICA	AMBTR	AMBEL	LAMPU
Pest Scientific Name	Erigeron canad>	Ambrosia trifi>	Ambrosia artem>	Lamium purpure>

Pest Name Canada horsewe> Giant ragweed Common ragweed Purple deadnet>

Crop Type, Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	May-25-2020	May-25-2020	May-25-2020	May-25-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Data Entry Date	Jun-9-2020	Jun-9-2020	Jun-9-2020	Jun-9-2020
Rating Timing				
Days After First/Last Applic.	31 31	31 31	31 31	31 31
Trt-Eval Interval	31 DA-A	31 DA-A	31 DA-A	31 DA-A
Plant-Eval Interval	18 DP-1	18 DP-1	18 DP-1	18 DP-1
Days After Emergence	0 DE-1	0 DE-1	0 DE-1	0 DE-1
Number of Decimals	0	0	0	0

Trt Treatment	Rate	Other	Other	Appl	6*	7*	8*	9*
No. Name	Rate Unit	Rate	Rate Unit	Code				
10 Roundup Powermax	1.13 lb ae/a	32 oz/a		A	100 a	94 ab	100 a	99 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	.	6.0	0.5	4.6
Standard Deviation	0.0	3.5	0.3	2.7
CV	0.0	4.07	0.29	3.04
Grand Mean	90.0	86.5	89.9	88.4
Levene's F	0.00	0.451	0.889	0.722
Levene's Prob(F)	.	0.89	0.552	0.684
Rank X2	.	.	.	.
P(Rank X2)	.	.	.	.
Skewness	-2.8091*	-2.7399*	-2.8088*	-2.7741*
Kurtosis	6.3081*	6.0587*	6.3068*	6.1783*

Replicate F	0.000	1.072	0.474	0.795
Replicate Prob(F)	1.0000	0.3633	0.6302	0.4670
Treatment F	0.000	224.096	42569.267	401.483
Treatment Prob(F)	1.0000	0.0001	0.0001	0.0001

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

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	VERAG	SETFA	AMBTR	ERICA
Pest Scientific Name	Veronica agres>	Setaria Ambrosia trifid>	Erigeron canad>	
Pest Name	Field speedwell	Giant foxtail	Giant ragweed	Canada horsewe>
Crop Type, Code	C GLXMA			
BBCH Scale	BSOY			
Crop Scientific Name	Glycine max			
Crop Name	Soybean			
Rating Date	May-25-2020	Jun-18-2020	Jun-18-2020	Jun-18-2020
Rating Type	CONTRO	PHYGEN	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Data Entry Date	Jun-9-2020	Jun-22-2020	Jun-22-2020	Jun-22-2020
Rating Timing				
Days After First/Last Applic.	31 31	55 55	55 55	55 55
Trt-Eval Interval	31 DA-A	55 DA-A	0 DA-B	0 DA-B
Plant-Eval Interval	18 DP-1	42 DP-1	42 DP-1	42 DP-1
Days After Emergence	0 DE-1	24 DE-1	24 DE-1	24 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Appl Code	10*	11*	12*	13*	14*
1							0 b	0 -	0 d	0 c	0 d
2	Roundup Powermax	1.13 lb	ae/a	32 oz/a		A	97 a	0 -	77 bc	72 ab	73 bc
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	97 a	0 -	63 c	58 b	67 c
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					

The Ohio State University

Valent Actives in a Roundup Xten System - No Tillage

Trial ID: 20VALENTTRRXNT
 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

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	VERAG	SETFA	AMBTR	ERICA
Pest Scientific Name	Veronica agres>	Setaria Ambrosia trifi>	faberi	Erigeron canad>
Pest Name	Field speedwell	Giant foxtail	Giant ragweed	Canada horsewe>
Crop Type, Code	C GLXMA			
BBCH Scale	BSOY			
Crop Scientific Name	Glycine max			
Crop Name	Soybean			
Rating Date	May-25-2020	Jun-18-2020	Jun-18-2020	Jun-18-2020
Rating Type	CONTRO	PHYGEN	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Data Entry Date	Jun-9-2020	Jun-22-2020	Jun-22-2020	Jun-22-2020
Rating Timing				
Days After First/Last Applic.	31 31	55 55	55 55	55 55
Trt-Eval Interval	31 DA-A	55 DA-A	0 DA-B	0 DA-B
Plant-Eval Interval	18 DP-1	42 DP-1	42 DP-1	42 DP-1
Days After Emergence	0 DE-1	24 DE-1	24 DE-1	24 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit Code	10*	11*	12*	13*	14*
4	Roundup Powermax	1.13 lb ae/a	32 oz/a		A	97 a	0 -	86 ab	70 ab	90 abc
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	98 a	0 -	79 abc	72 ab	100 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	98 a	0 -	88 ab	77 a	98 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	98 a	0 -	98 a	77 a	94 ab
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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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

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	VERAG	SETFA	AMBTR	ERICA
Pest Scientific Name	Veronica agres>	Setaria Ambrosia trifidi>	Erigeron canad>	
Pest Name	Field speedwell	Giant foxtail	Giant ragweed	Canada horsewe>
Crop Type, Code		C GLXMA		
BBCH Scale		BSOY		
Crop Scientific Name		Glycine max		
Crop Name		Soybean		
Rating Date	May-25-2020	Jun-18-2020	Jun-18-2020	Jun-18-2020
Rating Type	CONTRO	PHYGEN	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Data Entry Date	Jun-9-2020	Jun-22-2020	Jun-22-2020	Jun-22-2020
Rating Timing				
Days After First/Last Applic.	31 31	55 55	55 55	55 55
Trt-Eval Interval	31 DA-A	55 DA-A	0 DA-B	0 DA-B
Plant-Eval Interval	18 DP-1	42 DP-1	42 DP-1	42 DP-1
Days After Emergence	0 DE-1	24 DE-1	24 DE-1	24 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit	Code	10*	11*	12*	13*	14*
8	Roundup Powermax	1.13 lb ae/a	32 oz/a		A		97 a	0 -	97 ab	78 a	89 abc
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		98 a	0 -	98 ab	72 ab	100 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						

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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

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	VERAG	SETFA	AMBTR	ERICA
Pest Scientific Name	Veronica agres>	Setaria Ambrosia trifl>	Erigeron canad>	
Pest Name	Field speedwell	Giant foxtail	Giant ragweed	Canada horsewe>
Crop Type, Code		C GLXMA		
BBCH Scale		BSOY		
Crop Scientific Name		Glycine max		
Crop Name		Soybean		
Rating Date	May-25-2020	Jun-18-2020	Jun-18-2020	Jun-18-2020
Rating Type	CONTRO	PHYGEN	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Data Entry Date	Jun-9-2020	Jun-22-2020	Jun-22-2020	Jun-22-2020
Rating Timing				
Days After First/Last Applic.	31 31	55 55	55 55	55 55
Trt-Eval Interval	31 DA-A	55 DA-A	0 DA-B	0 DA-B
Plant-Eval Interval	18 DP-1	42 DP-1	42 DP-1	42 DP-1
Days After Emergence	0 DE-1	24 DE-1	24 DE-1	24 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit Code	10*	11*	12*	13*	14*
10	Roundup Powermax	1.13 lb ae/a	32 oz/a		A	98 a	0 -	93 ab	73 a	95 ab
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						2.5	.	21.1	14.2	23.5
Standard Deviation						1.4	0.0	12.3	8.3	13.7
CV						1.64	0.0	15.79	12.76	16.98
Grand Mean						88.0	0.0	78.0	64.8	80.6
Levene's F						0.981	0.00	1.306	1.083	1.551
Levene's Prob(F)						0.484	.	0.294	0.416	0.198
Rank X2						.	.	.	.	.
P(Rank X2)						.	.	.	.	.
Skewness						-2.8*	.	-1.9091*	-2.336*	-1.8763*
Kurtosis						6.2757*	.	2.6782*	4.1376*	2.47*
Replicate F						0.499	0.000	0.525	0.743	1.231
Replicate Prob(F)						0.6152	1.0000	0.6004	0.4898	0.3155
Treatment F						1384.596	0.000	17.305	24.099	14.822
Treatment Prob(F)						0.0001	1.0000	0.0001	0.0001	0.0001

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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

Pest Type	W Weed	W Weed	W Weed	W Weed					
Pest Code	AMBEL	CHEAL	POLPY	SETFA					
Pest Scientific Name	Ambrosia artem>	Chenopodium al>	Persicaria pen>	Setaria faberi					
Pest Name	Common ragweed	common lambsqu>	annual smartwe>	Giant foxtail					
Crop Type, Code				C GLXMA					
BBCH Scale				BSOY					
Crop Scientific Name				Glycine max					
Crop Name				Soybean					
Rating Date	Jun-18-2020	Jun-18-2020	Jun-18-2020	Jul-1-2020					
Rating Type	CONTRO	CONTRO	CONTRO	PHYNEC					
Rating Unit	%	%	%	%					
Number of Subsamples	1	1	1	1					
Data Entry Date	Jun-22-2020	Jun-22-2020	Jun-22-2020	Jul-1-2020					
Rating Timing									
Days After First/Last Applic.	55 55	55 55	55 55	68 13					
Trt-Eval Interval	0 DA-B	0 DA-B	0 DA-B	13 DA-B					
Plant-Eval Interval	42 DP-1	42 DP-1	42 DP-1	55 DP-1					
Days After Emergence	24 DE-1	24 DE-1	24 DE-1	37 DE-1					
Number of Decimals	0	0	0	0					
Trt Treatment	Rate	Other	Other	Appl	15*	16*	17*	18*	19*
No. Name	Rate Unit	Rate	Rate	Unit Code					
1					0 c	0 d	0 d	0 e	0 b
2 Roundup Powermax	1.13 lb ae/a	32 oz/a		A	93 a	83 b	83 b	4 cde	100 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	68 b	58 c	58 c	8 ab	100 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					

The Ohio State University

Valent Actives in a Roundup Xten System - No Tillage

Trial ID: 20VALENTTRRXNT
 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

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBEL	CHEAL	POLPY	SETFA
Pest Scientific Name	Ambrosia artem>	Chenopodium al>	Persicaria pen>	Setaria faberi
Pest Name	Common ragweed	common lambsqu>	annual smartwe>	Giant foxtail
Crop Type, Code				C GLXMA
BBCH Scale				BSOY
Crop Scientific Name				Glycine max
Crop Name				Soybean
Rating Date	Jun-18-2020	Jun-18-2020	Jun-18-2020	Jul-1-2020
Rating Type	CONTRO	CONTRO	CONTRO	PHYNEC
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Data Entry Date	Jun-22-2020	Jun-22-2020	Jun-22-2020	Jul-1-2020
Rating Timing				
Days After First/Last Applic.	55 55	55 55	55 55	68 13
Trt-Eval Interval	0 DA-B	0 DA-B	0 DA-B	13 DA-B
Plant-Eval Interval	42 DP-1	42 DP-1	42 DP-1	55 DP-1
Days After Emergence	24 DE-1	24 DE-1	24 DE-1	37 DE-1
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Rate	Other Other Rate Rate Unit	Appl Unit Code	15*	16*	17*	18*	19*
4 Roundup Powermax	1.13 lb ae/a	32 oz/a	A	98 a	100 a	99 ab	3 e	100 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	95 a	100 a	98 ab	3 de	100 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	98 a	100 a	86 ab	10 a	100 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	92 a	100 a	100 a	8 abc	100 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					

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

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBEL	CHEAL	POLPY	SETFA
Pest Scientific Name	Ambrosia artem>	Chenopodium al>	Persicaria pen>	Setaria faberi
Pest Name	Common ragweed	common lambsqu>	annual smartwe>	Giant foxtail
Crop Type, Code				C GLXMA
BBCH Scale				BSOY
Crop Scientific Name				Glycine max
Crop Name				Soybean
Rating Date	Jun-18-2020	Jun-18-2020	Jun-18-2020	Jul-1-2020
Rating Type	CONTRO	CONTRO	CONTRO	PHYNEC
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Data Entry Date	Jun-22-2020	Jun-22-2020	Jun-22-2020	Jul-1-2020
Rating Timing				
Days After First/Last Applic.	55 55	55 55	55 55	68 13
Trt-Eval Interval	0 DA-B	0 DA-B	0 DA-B	13 DA-B
Plant-Eval Interval	42 DP-1	42 DP-1	42 DP-1	55 DP-1
Days After Emergence	24 DE-1	24 DE-1	24 DE-1	37 DE-1
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Rate	Other	Other	Appl	15*	16*	17*	18*	19*
	Rate Unit	Rate	Rate Unit	Code					
8 Roundup Powermax	1.13 lb ae/a	32 oz/a		A	98 a	100 a	99 ab	8 ab	100 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	100 a	100 a	99 ab	7 a-d	100 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					

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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

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBEL	CHEAL	POLPY	SETFA
Pest Scientific Name	Ambrosia artem>	Chenopodium al>	Persicaria pen>	Setaria faberi
Pest Name	Common ragweed	common lambsqu>	annual smartwe>	Giant foxtail
Crop Type, Code				C GLXMA
BBCH Scale				BSOY
Crop Scientific Name				Glycine max
Crop Name				Soybean
Rating Date	Jun-18-2020	Jun-18-2020	Jun-18-2020	Jul-1-2020
Rating Type	CONTRO	CONTRO	CONTRO	PHYNEC
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Data Entry Date	Jun-22-2020	Jun-22-2020	Jun-22-2020	Jul-1-2020
Rating Timing				
Days After First/Last Applic.	55 55	55 55	55 55	68 13
Trt-Eval Interval	0 DA-B	0 DA-B	0 DA-B	13 DA-B
Plant-Eval Interval	42 DP-1	42 DP-1	42 DP-1	55 DP-1
Days After Emergence	24 DE-1	24 DE-1	24 DE-1	37 DE-1
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Rate	Other	Other	Appl	15*	16*	17*	18*	19*
	Rate Unit	Rate	Rate Unit Code						
10 Roundup Powermax	1.13 lb ae/a	32 oz/a	A		98 a	100 a	100 a	4 b-e	100 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					21.8	15.7	16.3	4.4	.
Standard Deviation					12.7	9.1	9.5	2.6	0.0
CV					15.14	10.85	11.55	46.15	0.0
Grand Mean					84.1	84.2	82.3	5.5	90.0
Levene's F					1.984	1.522	1.152	0.49	0.00
Levene's Prob(F)					0.097	0.207	0.375	0.864	.
Rank X2					.	.	.	.	.
P(Rank X2)					.	.	.	.	.
Skewness					-2.1886*	-2.052*	-1.9923*	0.4158	-2.8091*
Kurtosis					3.4408*	2.944*	2.8175*	-0.9217	6.3081*
Replicate F					0.600	1.089	1.578	0.097	0.000
Replicate Prob(F)					0.5593	0.3578	0.2336	0.9079	1.0000
Treatment F					17.739	37.986	33.515	4.716	0.000
Treatment Prob(F)					0.0001	0.0001	0.0001	0.0025	1.0000

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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

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	SETLU	AMBTR	AMBEL	CHEAL	ERICA				
Pest Scientific Name	Setaria pumila	Ambrosia trifi>	Ambrosia artem>	Chenopodium al>	Erigeron canad>				
Pest Name	foxtail, yellow	Giant ragweed	Common ragweed	common lambsqu>	Canada horsewe>				
Crop Type, Code									
BBCH Scale									
Crop Scientific Name									
Crop Name									
Rating Date	Jul-1-2020	Jul-1-2020	Jul-1-2020	Jul-1-2020	Jul-1-2020				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1				
Data Entry Date	Jul-1-2020	Jul-1-2020	Jul-1-2020	Jul-1-2020	Jul-1-2020				
Rating Timing									
Days After First/Last Applic.	68 13	68 13	68 13	68 13	68 13				
Trt-Eval Interval	13 DA-B	13 DA-B	13 DA-B	13 DA-B	13 DA-B				
Plant-Eval Interval	55 DP-1	55 DP-1	55 DP-1	55 DP-1	55 DP-1				
Days After Emergence	37 DE-1	37 DE-1	37 DE-1	37 DE-1	37 DE-1				
Number of Decimals	0	0	0	0	0				
Trt Treatment	Rate	Other	Other	Appl					
No. Name	Rate Unit	Rate	Rate	Unit Code	20*				
					21*				
					22*				
					23*				
					24*				
1					0 c	0 b	0 b	0 c	0 e
2 Roundup Powermax	1.13 lb ae/a	32 oz/a	A		98 a	90 a	100 a	100 a	82 d
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		88 b	87 a	100 a	95 b	82 d
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						

The Ohio State University

Valent Actives in a Roundup Xten System - No Tillage

Trial ID: 20VALENTTRRXNT
 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

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETLU	AMBTR	AMBEL	CHEAL	ERICA
Pest Scientific Name	Setaria pumila	Ambrosia trifi>	Ambrosia artem>	Chenopodium al>	Erigeron canad>
Pest Name	foxtail, yellow	Giant ragweed	Common ragweed	common lambsqu>	Canada horsewe>
Crop Type, Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Jul-1-2020	Jul-1-2020	Jul-1-2020	Jul-1-2020	Jul-1-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Data Entry Date	Jul-1-2020	Jul-1-2020	Jul-1-2020	Jul-1-2020	Jul-1-2020
Rating Timing					
Days After First/Last Applic.	68 13	68 13	68 13	68 13	68 13
Trt-Eval Interval	13 DA-B	13 DA-B	13 DA-B	13 DA-B	13 DA-B
Plant-Eval Interval	55 DP-1	55 DP-1	55 DP-1	55 DP-1	55 DP-1
Days After Emergence	37 DE-1	37 DE-1	37 DE-1	37 DE-1	37 DE-1
Number of Decimals	0	0	0	0	0

Trt Treatment No. Name	Rate	Other	Other	Appl	20*	21*	22*	23*	24*
Rate Unit	Rate Unit	Rate Unit	Rate Unit	Code					
4 Roundup Powermax	1.13 lb ae/a	32 oz/a		A	100 a	80 a	100 a	100 a	85 cd
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	100 a	87 a	100 a	100 a	100 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	95 a	90 a	100 a	100 a	98 ab
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	100 a	90 a	100 a	100 a	95 abc
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					

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

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETLU	AMBTR	AMBEL	CHEAL	ERICA
Pest Scientific Name	Setaria pumila	Ambrosia trifi>	Ambrosia artem>	Chenopodium al>	Erigeron canad>
Pest Name	foxtail, yellow	Giant ragweed	Common ragweed	common lambsqu>	Canada horsewe>
Crop Type, Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Jul-1-2020	Jul-1-2020	Jul-1-2020	Jul-1-2020	Jul-1-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Data Entry Date	Jul-1-2020	Jul-1-2020	Jul-1-2020	Jul-1-2020	Jul-1-2020
Rating Timing					
Days After First/Last Applic.	68 13	68 13	68 13	68 13	68 13
Trt-Eval Interval	13 DA-B	13 DA-B	13 DA-B	13 DA-B	13 DA-B
Plant-Eval Interval	55 DP-1	55 DP-1	55 DP-1	55 DP-1	55 DP-1
Days After Emergence	37 DE-1	37 DE-1	37 DE-1	37 DE-1	37 DE-1
Number of Decimals	0	0	0	0	0

Trt Treatment No. Name	Rate	Other	Other	Appl	20*	21*	22*	23*	24*
	Rate Unit	Rate Unit	Rate Unit	Code					
8 Roundup Powermax	1.13 lb ae/a	32 oz/a		A	100 a	88 a	100 a	100 a	90 a-d
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	100 a	87 a	100 a	100 a	90 a-d
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					

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

	W Weed SETLU	W Weed AMBTR	W Weed AMBEL	W Weed CHEAL	W Weed ERICA
Pest Type	Setaria pumila	Ambrosia trifi>	Ambrosia artem>	Chenopodium al>	Erigeron canad>
Pest Code	foxtail, yellow	Giant ragweed	Common ragweed	common lambsqu>	Canada horsewe>
Pest Scientific Name					
Pest Name					
Crop Type, Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Jul-1-2020	Jul-1-2020	Jul-1-2020	Jul-1-2020	Jul-1-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Data Entry Date	Jul-1-2020	Jul-1-2020	Jul-1-2020	Jul-1-2020	Jul-1-2020
Rating Timing					
Days After First/Last Applic.	68 13	68 13	68 13	68 13	68 13
Trt-Eval Interval	13 DA-B	13 DA-B	13 DA-B	13 DA-B	13 DA-B
Plant-Eval Interval	55 DP-1	55 DP-1	55 DP-1	55 DP-1	55 DP-1
Days After Emergence	37 DE-1	37 DE-1	37 DE-1	37 DE-1	37 DE-1
Number of Decimals	0	0	0	0	0

Trt Treatment No. Name	Rate Rate Unit	Other Rate Rate Unit	Other Rate Rate Unit	Appl Code	20*	21*	22*	23*	24*
10 Roundup Powermax	1.13 lb ae/a	32 oz/a		A	100 a	82 a	100 a	100 a	88 bcd
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					6.5	11.7	.	4.7	10.7
Standard Deviation					3.8	6.8	0.0	2.7	6.2
CV					4.32	8.78	0.0	3.06	7.68
Grand Mean					88.2	78.0	90.0	89.5	81.0
Levene's F					1.988	0.456	0.00	1.00	0.613
Levene's Prob(F)					0.096	0.887	.	0.471	0.772
Rank X2					.	.	.	.	.
P(Rank X2)					.	.	.	.	.
Skewness					-2.6898*	-2.4608*	-2.8091*	-2.7708*	-2.4119*
Kurtosis					5.8425*	5.1844*	6.3081*	6.156*	4.9712*
Replicate F					0.745	2.561	0.000	1.000	0.258
Replicate Prob(F)					0.4887	0.1050	1.0000	0.3874	0.7751
Treatment F					200.949	48.846	0.000	396.556	65.895
Treatment Prob(F)					0.0001	0.0001	1.0000	0.0001	0.0001

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

Pest Type W Weed
 Pest Code POLPY
 Pest Scientific Name Polygonum pens>
 Pest Name smartweed, Pen>
 Crop Type, Code
 BBCH Scale
 Crop Scientific Name
 Crop Name
 Rating Date Jul-1-2020
 Rating Type CONTRO
 Rating Unit %
 Number of Subsamples 1 1
 Data Entry Date Aug-3-2020
 Rating Timing
 Days After First/Last Applic. 68 13
 Trt-Eval Interval 13 DA-B
 Plant-Eval Interval 55 DP-1
 Days After Emergence 37 DE-1
 Number of Decimals 0

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit Code	25*	26
1							0 b
2	Roundup Powermax	1.13 lb ae/a	32 oz/a		A		100 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		100 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		

The Ohio State University

Valent Actives in a Roundup Xten System - No Tillage

Trial ID: 20VALENTTRRXNT
 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

Pest Type W Weed
 Pest Code POLPY
 Pest Scientific Name Polygonum pens>
 Pest Name smartweed, Pen>
 Crop Type, Code
 BBCH Scale
 Crop Scientific Name
 Crop Name
 Rating Date Jul-1-2020
 Rating Type CONTRO
 Rating Unit %
 Number of Subsamples 1 1
 Data Entry Date Aug-3-2020
 Rating Timing
 Days After First/Last Applic. 68 13
 Trt-Eval Interval 13 DA-B
 Plant-Eval Interval 55 DP-1
 Days After Emergence 37 DE-1
 Number of Decimals 0

Trt No.	Treatment Name	Rate	Other Rate	Other Unit	Appl Code	25*	26
4	Roundup Powermax	1.13 lb ae/a	32 oz/a		A		100 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		100 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		100 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		100 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		

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

Pest Type W Weed
 Pest Code POLPY
 Pest Scientific Name Polygonum pens>
 Pest Name smartweed, Pen>
 Crop Type, Code
 BBCH Scale
 Crop Scientific Name
 Crop Name
 Rating Date Jul-1-2020
 Rating Type CONTRO
 Rating Unit %
 Number of Subsamples 1 1
 Data Entry Date Aug-3-2020
 Rating Timing
 Days After First/Last Applic. 68 13
 Trt-Eval Interval 13 DA-B
 Plant-Eval Interval 55 DP-1
 Days After Emergence 37 DE-1
 Number of Decimals 0

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Appl Code	25*	26
8	Roundup Powermax	1.13 lb	ae/a	32 oz/a		A		100 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		100 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		

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

Pest Type W Weed
 Pest Code POLPY
 Pest Scientific Name Polygonum pens>
 Pest Name smartweed, Pen>
 Crop Type, Code
 BBCH Scale
 Crop Scientific Name
 Crop Name
 Rating Date Jul-1-2020
 Rating Type CONTRO
 Rating Unit %
 Number of Subsamples 1 1
 Data Entry Date Aug-3-2020
 Rating Timing
 Days After First/Last Applic. 68 13
 Trt-Eval Interval 13 DA-B
 Plant-Eval Interval 55 DP-1
 Days After Emergence 37 DE-1
 Number of Decimals 0

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Appl Code	25*	26
10	Roundup Powermax	1.13 lb	ae/a	32 oz/a		A		100 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	. .
Standard Deviation	0.0 .
CV	0.0 .
Grand Mean	90.0 .
Levene's F	0.00 .
Levene's Prob(F)	. .
Rank X2	. .
P(Rank X2)	. .
Skewness	-2.8091* .
Kurtosis	6.3081* .
Replicate F	0.000
Replicate Prob(F)	1.0000
Treatment F	0.000
Treatment Prob(F)	1.0000

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

Pest Type

W, Weed = Weed or volunteer crop

Pest Code

STEME, Stellaria media, Common chickweed = US
LAMPU, Lamium purpureum, Purple deadnettle = US
LAMAM, Lamium amplexicaule, Henbit = US
AMBTR, Ambrosia trifida, Giant ragweed = US
ERICA, Erigeron canadensis, Canada horseweed = US
AMBEL, Ambrosia artemisiifolia, Common ragweed = US
VERAG, Veronica agrestis, Field speedwell = US
SETFA, Setaria faberi, Giant foxtail = US
CHEAL, Chenopodium album, common lambsquarters = US
POLPY, Persicaria pensylvanica, annual smartweed = US
SETLU, Setaria pumila, foxtail, yellow = US
POLPY, Polygonum pensylvanicum, smartweed, Pennsylvania = US

Crop Type, Code

C = EPP0 species (Bayer) codes
GLXMA, BSOY, Glycine max, Soybean = US

Rating Type

CONTRO = control / burndown or knockdown
PHYGEN = phytotoxicity - general / injury
PHYNEC = phytotoxicity - necrosis /burn

Rating Unit

% = percent

Plant-Eval Interval

0 DP-1 = 1 GLXMA May-7-2020
18 DP-1 = 1 GLXMA May-7-2020
42 DP-1 = 1 GLXMA May-7-2020
55 DP-1 = 1 GLXMA May-7-2020