The Ohio State University

Glufosinate Surfactant increased Efficacy Trial

Trial ID: 20LIBSURF Location: Western Branch F-7 Trial Year: 2020
Protocol ID: 20LIBSURF Investigator: Dr. Mark M. Loux
Project ID: Study Director: Anthony Dobbels
Sponsor Contact: Jerry , GarrCo

General Trial Information
Study Director: Anthony Dobbels
Investigator: Dr. Mark M. Loux

Trial Status: E established
ARM Trial Created On: Mar-25-2020
Initiation Date: May-13-2020

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 °: 39.86079 N
Longitude of LL Corner °: -83.67043 W
Altitude of LL Corner: 1092.00 FT

Conducted Under GLP: No
Conducted Under GEP: No

Contacts
Study Director: Anthony Dobbels

Investigator: Dr. Mark M. Loux

Crop Description
Crop 1: C GLXMA Glycine max Soybean **BBCH Scale:** BSOY
Entry Date: May-14-2020 **Stage Scale:** BBCH
Variety: Seed Consultants SC7370E
Attributes: 2,4-D Choline, Glyphosate, Glufosinate Tol
Planting Date: May-13-2020 **Planting Rate:** 160000 S/A
Depth: 2 IN
Rows per Plot: 8 **Planting Method:** PLANTD planted
Row Spacing: 15 IN **Planting Equipment:** FE field equipment
Seed Bed: MEDIUM medium
Soil Temperature: 62 F **Soil Moisture:** NORMAL normal, adequate
Emergence Date: May-25-2020

Pest Description
Pest 1 Type: W **Code:** SETFA Setaria faberi
Common Name: foxtail, giant **Entry Date:** May-14-2020

Pest 2 Type: W **Code:** ECHCG Echinochloa crus-galli
Common Name: barnyardgrass **Entry Date:** Jun-16-2020

Pest 3 Type: W **Code:** AMBTR Ambrosia trifida
Common Name: ragweed, giant **Entry Date:** Jun-16-2020

Pest 4 Type: W **Code:** POLPY Polygonum pensylvanicum
Common Name: smartweed, Pennsylvania **Entry Date:** Jun-16-2020

Pest 5 Type: W **Code:** CHEAL Chenopodium album
Common Name: lambsquarters, common **Entry Date:** Jun-16-2020

Pest 6 Type: W **Code:** HIBTR Hibiscus trionum
Common Name: mallow, Venice **Entry Date:** Jun-16-2020

Pest 7 Type: W **Code:** AMARE Amaranthus retroflexus
Common Name: pigweed, redroot **Entry Date:** Jun-16-2020

Pest 8 Type: W **Code:** ABUTH Abutilon theophrasti
Common Name: velvetleaf **Entry Date:** Jun-16-2020

Site and Design
Treated Plot Width: 6 FT **Site Type:** FIELD field
Treated Plot Length: 30 FT **Experimental Unit:** 1 PLOT plot
Treated Plot Area: 180 FT2 **Treatments:** 20 **Tillage Type:** CONTIL conventional-till
Replications: 3 **Study Design:** RACOBL Randomized Complete Block (RCB)

No.	Previous Crop	Year
1.	SOYBEAN	2019

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Soil Description

Description Name: F-7 East
% Sand: 37 **% OM:** 2.8 **Texture:** SICL silty clay loam
% Silt: 48 **pH:** 5.7 **Soil Name:** Crosby
% Clay: 15 **CEC:** 11.8 **Fert. Level:** G good
Soil Drainage: G good

Application Description

	A
Application Date	Jun-16-2020
Appl. Start Time	7:54 AM
Appl. Stop Time	8:30 AM
Application Method	SPRAY
Application Timing	POST
Application Placement	BROFOL
Applied By	Dobbels
Appl. Entry Date	Jun-16-2020
Air Temperature Start, Stop	68 68 F
% Relative Humidity Start, Stop	71 71
Wind Velocity+Dir. Start	3 MPH E
Wind Velocity+Dir. Stop	3 MPH E
Wind Velocity+Dir. Max	3 MPH E
Wet Leaves (Y/N)	N no
Soil Temperature	64 F
Soil Moisture	DRY
Soil Surface Condition	MEDIUM
% Cloud Cover	10
Next Moisture Occurred On	Jun-18-2020
Time to Next Moisture	2 DAY
Moisture 6 Hours after Appl.	0 IN
Moisture 1 Week after Appl.	0.88 IN

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale	GLXMA BSOY
Days after Emergence	22
Stage Majority, Percent	12 100
Height Average	6 IN

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Pest Stage At Each Application

	A
Pest 1 Code, Type, Scale	SETFA W
Stage Majority, Percent	14 80
Stage Minimum, Percent	12 10
Stage Maximum, Percent	16 10
Height Average	3 IN
Height Minimum, Maximum	1 6
Density Average	172 PLA/m2
Density Min, Max	129 228
Pest 2 Code, Type, Scale	ECHCG W
Stage Majority, Percent	14 80
Stage Minimum, Percent	12 10
Stage Maximum, Percent	16 10
Height Average	3 IN
Height Minimum, Maximum	1 6
Density Average	21 PLA/m2
Density Min, Max	6 48
Pest 3 Code, Type, Scale	AMBTR W
Stage Majority, Percent	14 80
Stage Minimum, Percent	12 10
Stage Maximum, Percent	16 10
Height Average	4 IN
Height Minimum, Maximum	1 8
Density Average	5 PLA/m2
Density Min, Max	3 9
Pest 4 Code, Type, Scale	POLPY W
Stage Majority, Percent	16 80
Stage Minimum, Percent	14 10
Stage Maximum, Percent	18 10
Height Average	3 IN
Height Minimum, Maximum	2 7
Pest 5 Code, Type, Scale	CHEAL W
Stage Majority, Percent	17 80
Stage Minimum, Percent	14 10
Stage Maximum, Percent	21 10
Height Average	3 IN
Height Minimum, Maximum	1 4
Density Average	21 PLA/m2
Density Min, Max	3 54
Pest 6 Code, Type, Scale	HIBTR W
Stage Majority, Percent	13 80
Stage Minimum, Percent	12 10
Stage Maximum, Percent	14 10
Height Average	3 IN
Height Minimum, Maximum	1 4
Pest 7 Code, Type, Scale	AMARE W
Stage Majority, Percent	13 80
Stage Minimum, Percent	12 10
Stage Maximum, Percent	14 10
Height Average	2 IN
Height Minimum, Maximum	1 3
Density Average	9 PLA/m2
Density Min, Max	3 12
Pest 8 Code, Type, Scale	ABUTH W
Stage Majority, Percent	13 80
Stage Minimum, Percent	12 10
Stage Maximum, Percent	14 10
Height Average	2 IN
Height Minimum, Maximum	1 4
Density Average	2 PLA/m2
Density Min, Max	0 6

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Application Equipment

	A
Appl. Equipment	6 FT
Equipment Type	BACCAI
Operation Pressure	44 PSI
Nozzle Type	XR
Nozzle Size	8002
Nozzle Spacing	18 IN
Boom Length	6.67 FT
Boom Height	20 IN
Ground Speed	3 MPH
Carrier	WATER
Application Amount	20 GAL/AC
Mix Size	2 L
Propellant	COMCO2

Context	Date	By	Notes
STATUS	Mar-25-2020	Dr. Mark M. Loux	Automatically added by ARM: Trial Status updated to 'S' during trial creation.
STATUS	Mar-27-2020	Dr. Mark M. Loux	Automatically added by ARM: Trial Status updated to 'S' during trial creation.
STATUS	Mar-27-2020	Dr. Mark M. Loux	Automatically added by ARM: Trial Status updated to 'S' during trial creation.
STATUS	May-14-2020	Dr. Mark M. Loux	Automatically added by ARM: Trial Status updated to 'E' when Planting Date entered.
STATUS	Jul-13-2020	Dr. Mark M. Loux	Automatically added by ARM: Trial Status updated to 'E' when Initiation Date entered.

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	ECHCG	AMBTR	CHEAL	AMARE
Pest Scientific Name	Setaria faberi	Echinochloa cr>	Ambrosia trifi>	Chenopodium al>	Amaranthus ret>
Pest Name	Giant foxtail	Common barnyar>	Giant ragweed	common lambsqu>	Redroot pigweed
Rating Date	Jun-30-2020	Jun-30-2020	Jun-30-2020	Jun-30-2020	Jun-30-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Data Entry Date	Jun-30-2020	Jun-30-2020	Jun-30-2020	Jun-30-2020	Jun-30-2020
Days After First/Last Applic.	14 14	14 14	14 14	14 14	14 14
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Plant-Eval Interval	48 DP-1	48 DP-1	48 DP-1	48 DP-1	48 DP-1
Days After Emergence	36 DE-1	36 DE-1	36 DE-1	36 DE-1	36 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	1*	2*	3*	4*	5*
1	Liberty	0.66	lb ai/a	36	oz/a	A	100 -	91 ab	100 -	87 -	89 -
2	Liberty	0.66	lb ai/a	36	oz/a	A	100 -	95 a	97 -	90 -	93 -
	N PAK-AMS	2.5	% v/v	1.5	qt/a	A					
3	Liberty	0.66	lb ai/a	36	oz/a	A	100 -	94 a	100 -	87 -	99 -
	Condition	2	qt/100 gal	0.4	qt/a	A					
4	Liberty	0.66	lb ai/a	36	oz/a	A	100 -	85 abc	97 -	75 -	84 -
	Condition	2	qt/100 gal	0.4	qt/a	A					
	Control Duo	2	qt/100 gal	0.4	qt/a	A					
5	Liberty	0.66	lb ai/a	36	oz/a	A	100 -	88 abc	96 -	87 -	88 -
	Control Duo	2	qt/100 gal	0.4	qt/a	A					
6	Liberty	0.66	lb ai/a	36	oz/a	A	100 -	85 abc	98 -	73 -	85 -
	Control Duo	4	qt/100 gal	0.8	qt/a	A					
7	Liberty	0.66	lb ai/a	36	oz/a	A	100 -	82 bcd	99 -	70 -	77 -
	Triplex	4	qt/100 gal	0.8	qt/a	A					
8	Liberty	0.66	lb ai/a	36	oz/a	A	100 -	93 a	97 -	78 -	85 -
	Control Duo	2	qt/100 gal	0.4	qt/a	A					
	N PAK-AMS	2.5	% v/v	2.5	% v/v	A					
9	Liberty	0.66	lb ai/a	36	oz/a	A	100 -	86 abc	96 -	83 -	86 -
	Condition	1	qt/100 gal	0.2	qt/a	A					
	Control Duo	4	qt/100 gal	0.8	qt/a	A					
10	Liberty	0.66	lb ai/a	36	oz/a	A	100 -	85 abc	100 -	80 -	92 -
	Condition Plus	4	qt/100 gal	0.8	qt/a	A					
11	Interline	0.66	lb ai/a	36	oz/a	A	100 -	87 abc	100 -	72 -	90 -
12	Interline	0.66	lb ai/a	36	oz/a	A	100 -	92 ab	97 -	73 -	100 -
	N PAK-AMS	2.5	% v/v	2.5	% v/v	A					
13	Interline	0.66	lb ai/a	36	oz/a	A	100 -	92 ab	100 -	82 -	100 -
	Condition	2	qt/100 gal	0.4	qt/a	A					
14	Interline	0.66	lb ai/a	36	oz/a	A	100 -	87 abc	100 -	70 -	80 -
	Condition	2	qt/100 gal	0.4	qt/a	A					
	Control Duo	2	qt/100 gal	0.4	qt/a	A					

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	ECHCG	AMBTR	CHEAL	AMARE
Pest Scientific Name	Setaria faberi	Echinochloa cr>	Ambrosia trifi>	Chenopodium al>	Amaranthus ret>
Pest Name	Giant foxtail	Common barnyar>	Giant ragweed	common lambsqu>	Redroot pigweed
Rating Date	Jun-30-2020	Jun-30-2020	Jun-30-2020	Jun-30-2020	Jun-30-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Data Entry Date	Jun-30-2020	Jun-30-2020	Jun-30-2020	Jun-30-2020	Jun-30-2020
Days After First/Last Applic.	14 14	14 14	14 14	14 14	14 14
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Plant-Eval Interval	48 DP-1	48 DP-1	48 DP-1	48 DP-1	48 DP-1
Days After Emergence	36 DE-1	36 DE-1	36 DE-1	36 DE-1	36 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	1*	2*	3*	4*	5*
15	Interline	0.66	lb ai/a	36	oz/a	A	100 -	79 cd	100 -	81 -	86 -
	Control Duo	2	qt/100 gal	0.4	qt/a	A					
16	Interline	0.66	lb ai/a	36	oz/a	A	100 -	82 bcd	95 -	78 -	80 -
	Control Duo	4	qt/100 gal	0.8	qt/a	A					
17	Interline	0.66	lb ai/a	36	oz/a	A	100 -	86 abc	97 -	73 -	85 -
	Triplex	4	qt/100 gal	0.8	qt/a	A					
18	Interline	0.66	lb ai/a	36	oz/a	A	100 -	82 bcd	95 -	73 -	87 -
	Control Duo	2	qt/100 gal	0.4	qt/a	A					
	N PAK-AMS	2.5	% v/v	2.5	% v/v	A					
19	Interline	0.66	lb ai/a	36	oz/a	A	100 -	73 d	97 -	63 -	83 -
	Condition	1	qt/100 gal	0.2	qt/a	A					
	Control Duo	4	qt/100 gal	0.8	qt/a	A					
20	Interline	0.66	lb ai/a	36	oz/a	A	100 -	82 bcd	100 -	70 -	85 -
	Condition Plus	4	qt/100 gal	0.8	qt/a	A					
LSD P=.05							.	10.0	7.5	17.1	15.7
Standard Deviation							0.0	6.1	4.6	10.3	9.5
CV							0.0	7.02	4.65	13.38	10.81
Grand Mean							100.0	86.3	98.0	77.3	87.8
Levene's F							0.00	0.433	0.536	0.318	0.566
Levene's Prob(F)							.	0.974	0.927	0.995	0.908
Rank X2							.	.	.	.	.
P(Rank X2)							.	.	.	.	.
Skewness							.	-0.5424	-1.8954*	0.3789	-0.2564
Kurtosis							.	-0.2359	2.2131*	-0.5816	-1.1962
Replicate F							0.000	8.918	0.968	6.023	0.614
Replicate Prob(F)							1.0000	0.0007	0.3891	0.0053	0.5466
Treatment F							0.000	2.434	0.548	1.414	1.413
Treatment Prob(F)							1.0000	0.0097	0.9189	0.1779	0.1785

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Pest Type						W Weed	W Weed	W Weed	W Weed	W Weed	
Pest Code						SETFA	ECHCG	AMBTR	CHEAL	AMARE	
Pest Scientific Name						Setaria faberi	Echinochloa cr>	Ambrosia trifi>	Chenopodium al>	Amaranthus ret>	
Pest Name						foxtail, giant	barnyardgrass	ragweed, giant	lambsquarters,>	pigweed, redro>	
Rating Date						Jul-15-2020	Jul-15-2020	Jul-15-2020	Jul-15-2020	Jul-15-2020	
Rating Type						CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	
Rating Unit						%	%	%	%	%	
Number of Subsamples						1	1	1	1	1	
Data Entry Date						Jul-15-2020	Jul-15-2020	Jul-15-2020	Jul-15-2020	Jul-15-2020	
Days After First/Last Applic.						29 29	29 29	29 29	29 29	29 29	
Trt-Eval Interval						29 DA-A	29 DA-A	29 DA-A	29 DA-A	29 DA-A	
Plant-Eval Interval						63 DP-1	63 DP-1	63 DP-1	63 DP-1	63 DP-1	
Days After Emergence						51 DE-1	51 DE-1	51 DE-1	51 DE-1	51 DE-1	
Number of Decimals						0	0	0	0	0	
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Appl Code	6*	7*	8*	9*	10*
1	Liberty	0.66	lb ai/a	36	oz/a	A	100 -	87 abc	100 -	83 -	80 -
2	Liberty	0.66	lb ai/a	36	oz/a	A	100 -	93 a	100 -	82 -	86 -
	N PAK-AMS	2.5	% v/v	1.5	qt/a	A					
3	Liberty	0.66	lb ai/a	36	oz/a	A	100 -	88 ab	100 -	90 -	97 -
	Condition	2	qt/100 gal	0.4	qt/a	A					
4	Liberty	0.66	lb ai/a	36	oz/a	A	100 -	77 a-e	97 -	67 -	72 -
	Condition	2	qt/100 gal	0.4	qt/a	A					
	Control Duo	2	qt/100 gal	0.4	qt/a	A					
5	Liberty	0.66	lb ai/a	36	oz/a	A	100 -	76 a-e	87 -	82 -	82 -
	Control Duo	2	qt/100 gal	0.4	qt/a	A					
6	Liberty	0.66	lb ai/a	36	oz/a	A	100 -	77 a-e	98 -	70 -	77 -
	Control Duo	4	qt/100 gal	0.8	qt/a	A					
7	Liberty	0.66	lb ai/a	36	oz/a	A	100 -	70 b-f	100 -	67 -	65 -
	Triplex	4	qt/100 gal	0.8	qt/a	A					
8	Liberty	0.66	lb ai/a	36	oz/a	A	100 -	75 a-e	97 -	70 -	63 -
	Control Duo	2	qt/100 gal	0.4	qt/a	A					
	N PAK-AMS	2.5	% v/v	2.5	% v/v	A					
9	Liberty	0.66	lb ai/a	36	oz/a	A	95 -	67 c-f	90 -	77 -	73 -
	Condition	1	qt/100 gal	0.2	qt/a	A					
	Control Duo	4	qt/100 gal	0.8	qt/a	A					
10	Liberty	0.66	lb ai/a	36	oz/a	A	100 -	63 def	100 -	67 -	70 -
	Condition Plus	4	qt/100 gal	0.8	qt/a	A					
11	Interline	0.66	lb ai/a	36	oz/a	A	98 -	73 a-f	100 -	60 -	77 -
12	Interline	0.66	lb ai/a	36	oz/a	A	99 -	85 abc	97 -	67 -	83 -
	N PAK-AMS	2.5	% v/v	2.5	% v/v	A					
13	Interline	0.66	lb ai/a	36	oz/a	A	100 -	80 a-d	100 -	84 -	97 -
	Condition	2	qt/100 gal	0.4	qt/a	A					
14	Interline	0.66	lb ai/a	36	oz/a	A	97 -	73 a-f	100 -	62 -	77 -
	Condition	2	qt/100 gal	0.4	qt/a	A					
	Control Duo	2	qt/100 gal	0.4	qt/a	A					

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Pest Code						SETFA	ECHCG	AMBTR	CHEAL	AMARE
Pest Scientific Name						Setaria faberi	Echinochloa cr>	Ambrosia trifi>	Chenopodium al>	Amaranthus ret>
Pest Name						foxtail, giant	barnyardgrass	ragweed, giant	lambsquarters,>	pigweed, redro>
Rating Date						Jul-15-2020	Jul-15-2020	Jul-15-2020	Jul-15-2020	Jul-15-2020
Rating Type						CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit						%	%	%	%	%
Number of Subsamples						1	1	1	1	1
Data Entry Date						Jul-15-2020	Jul-15-2020	Jul-15-2020	Jul-15-2020	Jul-15-2020
Days After First/Last Applic.						29 29	29 29	29 29	29 29	29 29
Trt-Eval Interval						29 DA-A	29 DA-A	29 DA-A	29 DA-A	29 DA-A
Plant-Eval Interval						63 DP-1	63 DP-1	63 DP-1	63 DP-1	63 DP-1
Days After Emergence						51 DE-1	51 DE-1	51 DE-1	51 DE-1	51 DE-1
Number of Decimals						0	0	0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	6*	7*	8*	9*	10*
15	Interline	0.66	lb ai/a	36	oz/a	A	100 -	73 b-f	97 -	82 -	82 -
	Control Duo	2	qt/100 gal	0.4	qt/a	A					
16	Interline	0.66	lb ai/a	36	oz/a	A	96 -	53 f	100 -	60 -	53 -
	Control Duo	4	qt/100 gal	0.8	qt/a	A					
17	Interline	0.66	lb ai/a	36	oz/a	A	100 -	70 b-f	97 -	65 -	77 -
	Triplex	4	qt/100 gal	0.8	qt/a	A					
18	Interline	0.66	lb ai/a	36	oz/a	A	97 -	57 ef	93 -	60 -	77 -
	Control Duo	2	qt/100 gal	0.4	qt/a	A					
	N PAK-AMS	2.5	% v/v	2.5	% v/v	A					
19	Interline	0.66	lb ai/a	36	oz/a	A	95 -	53 f	87 -	57 -	60 -
	Condition	1	qt/100 gal	0.2	qt/a	A					
	Control Duo	4	qt/100 gal	0.8	qt/a	A					
20	Interline	0.66	lb ai/a	36	oz/a	A	97 -	73 a-f	100 -	65 -	83 -
	Condition Plus	4	qt/100 gal	0.8	qt/a	A					
LSD P=.05							5.0	20.1	10.5	24.0	29.6
Standard Deviation							3.1	12.2	6.4	14.5	17.9
CV							3.09	16.63	6.57	20.55	23.4
Grand Mean							98.7	73.1	96.9	70.7	76.5
Levene's F							1.024	0.612	1.409	0.271	0.498
Levene's Prob(F)							0.458	0.875	0.177	0.998	0.948
Rank X2							.	.	.	.	.
P(Rank X2)							.	.	.	.	.
Skewness							-2.235*	-0.6622*	-2.6615*	0.006	-0.319
Kurtosis							3.5199*	0.4229	7.582*	-0.4257	-0.756
Replicate F							0.951	11.827	0.134	2.435	0.265
Replicate Prob(F)							0.3953	0.0001	0.8752	0.1012	0.7687
Treatment F							1.182	2.390	1.435	1.396	1.108
Treatment Prob(F)							0.3211	0.0109	0.1681	0.1868	0.3814

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Pest Type
W, Weed = Weed or volunteer crop
Pest Code
SETFA, Setaria faberi, Giant foxtail = US
ECHCG, Echinochloa crus-galli, Common barnyard grass = US
AMBTR, Ambrosia trifida, Giant ragweed = US
CHEAL, Chenopodium album, common lambsquarters = US
AMARE, Amaranthus retroflexus, Redroot pigweed = US
SETFA, Setaria faberi, foxtail, giant = US
ECHCG, Echinochloa crus-galli, barnyardgrass = US
AMBTR, Ambrosia trifida, ragweed, giant = US
CHEAL, Chenopodium album, lambsquarters, common = US
AMARE, Amaranthus retroflexus, pigweed, redroot = US
Rating Type
CONTRO = control / burndown or knockdown
Rating Unit
% = percent
Plant-Eval Interval
48 DP-1 = 1 GLXMA May-13-2020
63 DP-1 = 1 GLXMA May-13-2020