

The Ohio State University

Panther Pro no-till Enlist soybean programs

Trial ID: 18 PANTHERPRO Location: G-8 West End Trial Year: 2018  
 Protocol ID: 18 PANTHERPRO Investigator: Dr. Mark M. Loux  
 Project ID: H 2018 108 OH 1 Study Director: Bryan Reeb  
 Sponsor Contact: Bob Bruss, Nufarm

**General Trial Information**

**Study Director:** Bryan Reeb  
**Investigator:** Dr. Mark M. Loux

**Discipline:** H herbicide  
**Initiation Date:** Apr-20-2018

**Trial Location**

**City:** South Charleston **Country:** USA United States  
**State/Prov.:** Ohio  
**Postal Code:** 45368 **Climate Zone:** USWARM US Warm Continental

**Latitude of LL Corner °:** 39.85801 N  
**Longitude of LL Corner °:** 83.67629 W  
**Altitude of LL Corner, Unit:** 1090.00 FT

**Conducted Under GLP:** No  
**Conducted Under GEP:** No

**Contacts**

**Study Director:** Bryan Reeb  
**Investigator:** Dr. Mark M. Loux

**Crop Description**

**Crop 1:** GLXMA Glycine max Soybean  
**Variety:** Enlist 29E16L7 **BBCH Scale:** BSOY  
**Description:** Enlist E3

**Planting Rate, Unit:** 139500 S/A  
**Depth, Unit:** 1.25 IN  
**Row Spacing, Unit:** 15 IN  
**Soil Temperature, Unit:** 60 F  
**Soil Moisture:** NORMAL normal, adequate  
**Seed Bed:** MEDTRA medium/trashy

**Planting Date:** Apr-30-2018  
**Planting Method:** PLANTD planted  
**Planting Equipment:** FE field equipment  
**Emergence Date:** May-11-2018

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**Pest Description**

- Pest 1 Type:** W **Code:** LAMPU *Lamium purpureum*  
**Common Name:** Purple deadnettle
- Pest 2 Type:** W **Code:** STEME *Stellaria media*  
**Common Name:** Common chickweed
- Pest 3 Type:** W **Code:** RANAB *Ranunculus abortivus*  
**Common Name:** Smallflower buttercup
- Pest 4 Type:** W **Code:** VERAG *Veronica agrestis*  
**Common Name:** Field speedwell
- Pest 5 Type:** W **Code:** TAROF *Taraxacum officinale*  
**Common Name:** Dandelion
- Pest 6 Type:** W **Code:** ERPSS *Erophila* sp.  
**Common Name:** Whitlowgrass
- Pest 7 Type:** W **Code:** SENGL *Packera glabella*  
**Common Name:** Cressleaf groundsel
- Pest 8 Type:** W **Code:** TARSS *Taraxacum* sp.  
**Common Name:** Dandelion
- Pest 9 Type:** W **Code:** CARPE *Cardamine pensylvanica*  
**Common Name:** Pennsylvania bittercress
- Pest10 Type:** W **Code:** SETFA *Setaria faberi*  
**Common Name:** Giant foxtail
- Pest11 Type:** W **Code:** ECHCG *Echinochloa crus-galli*  
**Common Name:** Common barnyard grass
- Pest12 Type:** W **Code:** AMBTR *Ambrosia trifida*  
**Common Name:** Giant ragweed
- Pest13 Type:** W **Code:** CHEAL *Chenopodium album*  
**Common Name:** common lambsquarters
- Pest14 Type:** W **Code:** ABUTH *Abutilon theophrasti*  
**Common Name:** velvetleaf
- Pest15 Type:** W **Code:** TAROF *Taraxacum officinale*  
**Common Name:** Common Dandelion
- Pest16 Type:** W **Code:** ERICA *Erigeron canadensis*  
**Common Name:** Canada horseweed

**Site and Design**

**Treated Plot Width:** 6.67 FT  
**Treated Plot Length:** 30 FT  
**Treated Plot Area:** 200.1 FT<sup>2</sup> **Treatments:** 14  
**Replications:** 3

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

**No. Previous Crop Year**

1. Soybeans 2017

**Soil Description**

**Description Name:** G-8  
**% Sand:** 27 **% OM:** 2.4 **Texture:** SICL silty clay loam  
**% Silt:** 47 **pH:** 6.2 **Soil Name:** Crosby Silt Loam  
**% Clay:** 17 **CEC:** 13.4 **Fert. Level:** G good  
**Soil Drainage:** F fair

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## Application Description

	A	B	C
<b>Application Date:</b>	Apr-20-2018	Apr-30-2018	Jun-6-2018
<b>Appl. Start Time:</b>	2:30 PM	1:00 PM	11:30 AM
<b>Appl. Stop Time:</b>	3:00 PM	1:20 PM	11:45 AM
<b>Interval to Prev. Appl., Unit:</b>		10 DAYS	37 DAYS
<b>Application Method:</b>	SPRAY	SPRAY	SPRAY
<b>Application Timing:</b>	14 EPP	ATPLAN	6"WEEDS
<b>Application Placement:</b>	BROSOI	BROSOI	BROFOL
<b>Applied By:</b>	DOBBELS		Reeb
<b>Air Temperature, Unit:</b>	56 F	64 F	71 F
<b>% Relative Humidity:</b>	31	25	55
<b>Wind Velocity, Unit:</b>	6 MPH	4 MPH	6 MPH
<b>Wind Direction:</b>	ENE	SW	S
<b>Dew Presence (Y/N):</b>	N no	N no	N no
<b>Soil Temperature, Unit:</b>	58 F	60 F	71 F
<b>Soil Moisture:</b>	SLIWET	NORMAL	DRY
<b>% Cloud Cover:</b>	1	20	90
<b>Next Moisture Occurred On:</b>	Apr-23-2018	May-3-2018	Jun-8-2018
<b>Time to Next Moisture, Unit:</b>	3 DAY	3 DAY	2 DAY
<b>Moisture 1 Week after Appl.:</b>	0.24 IN	0.71 IN	1.1 IN

## Crop Stage At Each Application

	A	B	C
<b>Crop 1 Code, BBCH Scale:</b>	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
<b>Stage Scale Used:</b>			BBCH
<b>Stage Majority, Percent:</b>			15 100
<b>Height, Unit:</b>			7.5 IN
<b>Height Minimum, Maximum:</b>			6 8

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## Pest Stage At Each Application

	A		B		C	
<b>Pest 1 Code, Type, Scale:</b>	LAMPU	W	LAMPU	W	LAMPU	W
<b>Stage Majority, Percent:</b>	65	100	65	100		
<b>Diameter, Unit:</b>	1	IN	1	IN		
<b>Height, Unit:</b>	3.5	IN	3	IN		
<b>Height Minimum, Maximum:</b>	1	4.5	2	4		
<b>Pest 2 Code, Type, Scale:</b>	STEME	W	STEME	W	STEME	W
<b>Stage Majority, Percent:</b>	65	100				
<b>Diameter, Unit:</b>	1.5	IN				
<b>Height, Unit:</b>	0.5	IN				
<b>Height Minimum, Maximum:</b>	0.25	1				
<b>Pest 3 Code, Type, Scale:</b>	RANAB	W	RANAB	W	RANAB	W
<b>Stage Majority, Percent:</b>	13	100	65	100		
<b>Diameter, Unit:</b>	3	IN	1	IN		
<b>Height, Unit:</b>	1.5	IN	3	IN		
<b>Height Minimum, Maximum:</b>	0.5	4	2	4		
<b>Pest 4 Code, Type, Scale:</b>	VERAG	W	VERAG	W	VERAG	W
<b>Stage Majority, Percent:</b>	55	100				
<b>Diameter, Unit:</b>	2	IN				
<b>Height, Unit:</b>	1	IN				
<b>Height Minimum, Maximum:</b>	0.25	1				
<b>Pest 5 Code, Type, Scale:</b>	TAROF	W	TAROF	W	TAROF	W
<b>Stage Majority, Percent:</b>	19	100				
<b>Diameter, Unit:</b>	8	IN				
<b>Height, Unit:</b>	1.5	IN				
<b>Height Minimum, Maximum:</b>	1	2				
<b>Pest 6 Code, Type, Scale:</b>	ERPSS	W	ERPSS	W	ERPSS	W
<b>Stage Majority, Percent:</b>	65	100				
<b>Diameter, Unit:</b>	3	IN				
<b>Height, Unit:</b>	4.5	IN				
<b>Height Minimum, Maximum:</b>	2	5				
<b>Pest 7 Code, Type, Scale:</b>	SENGL	W	SENGL	W	SENGL	W
<b>Stage Majority, Percent:</b>			65	100		
<b>Diameter, Unit:</b>			4	IN		
<b>Height, Unit:</b>			4	IN		
<b>Height Minimum, Maximum:</b>			4	7		
<b>Pest 8 Code, Type, Scale:</b>	TARSS	W	TARSS	W	TARSS	W
<b>Stage Majority, Percent:</b>			65	100		
<b>Diameter, Unit:</b>			8	IN		
<b>Height, Unit:</b>			3	IN		
<b>Height Minimum, Maximum:</b>			3	5		
<b>Pest 9 Code, Type, Scale:</b>	CARPE	W	CARPE	W	CARPE	W
<b>Stage Majority, Percent:</b>			65	100		
<b>Diameter, Unit:</b>			1	IN		
<b>Height, Unit:</b>			4	IN		
<b>Height Minimum, Maximum:</b>			4	6		
<b>Pest10 Code, Type, Scale:</b>	SETFA	W	SETFA	W	SETFA	W
<b>Stage Majority, Percent:</b>					15	100
<b>Height, Unit:</b>					14	IN
<b>Height Minimum, Maximum:</b>					12	16
<b>Pest11 Code, Type, Scale:</b>	ECHCG	W	ECHCG	W	ECHCG	W
<b>Stage Majority, Percent:</b>					23	100
<b>Height, Unit:</b>					8	IN
<b>Height Minimum, Maximum:</b>					8	10
<b>Pest12 Code, Type, Scale:</b>	AMBTR	W	AMBTR	W	AMBTR	W
<b>Stage Majority, Percent:</b>					12	100
<b>Height, Unit:</b>					10	IN
<b>Height Minimum, Maximum:</b>					10	12
<b>Pest13 Code, Type, Scale:</b>	CHEAL	W	CHEAL	W	CHEAL	W
<b>Stage Majority, Percent:</b>					12	100
<b>Height, Unit:</b>					6	IN
<b>Height Minimum, Maximum:</b>					5	10
<b>Pest14 Code, Type, Scale:</b>	ABUTH	W	ABUTH	W	ABUTH	W
<b>Stage Majority, Percent:</b>					18	100
<b>Height, Unit:</b>					10	IN
<b>Height Minimum, Maximum:</b>					8	10
<b>Pest15 Code, Type, Scale:</b>	TAROF	W	TAROF	W	TAROF	W
<b>Stage Majority, Percent:</b>					19	100
<b>Height, Unit:</b>					4	IN
<b>Height Minimum, Maximum:</b>					4	6
<b>Pest16 Code, Type, Scale:</b>	ERICA	W	ERICA	W	ERICA	W
<b>Stage Majority, Percent:</b>					19	100
<b>Height, Unit:</b>					3	IN
<b>Height Minimum, Maximum:</b>					2	5

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Application Equipment

	A	B	C
Appl. Equipment:	6' BACKPACK	6' BACKPACK	6' BACKPACK
Equipment Type:	BACCAI	BACCAI	BACCAI
Operation Pressure, Unit:	44 PSI	44 PSI	48 PSI
Nozzle Type:	AIXR	AIXR	AIXR
Nozzle Size:	11015	11015	11015
Nozzle Spacing, Unit:	18 IN	18 IN	18 IN
Nozzles/Row:	4	4	4
Boom Length, Unit:	6.67 FT	6.67 FT	6.67 FT
Boom Height, Unit:	20 IN	20 IN	20 IN
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH
Carrier:	WATER	WATER	WATER
Spray Volume, Unit:	15 gal/ac	15 gal/ac	15 gal/ac
Mix Size, Unit:	1 L	1 L	1 L
Propellant:	COMCO2	COMCO2	COMCO2

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	LAMPU	STEME	SENGL	RANAB	TAROF
Pest Scientific Name	Lamium purpure>	Stellaria media	Packera glabel>	Ranunculus abo>	Taraxacum offi>
Pest Name	Purple deadnet>	Common chickwe>	Cressleaf grou>	Smallflower bu>	Common Dandel>
Rating Date	May-14-2018	May-14-2018	May-14-2018	May-14-2018	May-14-2018
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	24 14	24 14	24 14	24 14	24 14
Plant-Eval Interval	14 DP-1	14 DP-1	14 DP-1	14 DP-1	14 DP-1
Days After Emergence	3 DE-1	3 DE-1	3 DE-1	3 DE-1	3 DE-1

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit	Code	1*	2*	3*	4*	5*
1	Spitfire	20 oz/a		A		90.0 -	100.0 -	100.0 -	100.0 -	61.7 abc
	Credit Xtreme	32 oz/a		A						
	N-pak ams	1.5 qt/a		A						
2	Spitfire	20 oz/a		A		100.0 -	100.0 -	98.3 -	100.0 -	86.7 a
	Credit Xtreme	32 oz/a		A						
	Panther Pro	15 oz/a		A						
	Crop Oil Concentrat	0.6 qt/a		A						
	N-pak ams	1.5 qt/a		A						
	Credit Xtreme	32 oz/a		C						
	N-pak ams	1.5 qt/a		C						
3	Spitfire	20 oz/a		A		100.0 -	100.0 -	100.0 -	100.0 -	78.3 ab
	Credit Xtreme	32 oz/a		A						
	Panther Pro	15 oz/a		A						
	Crop Oil Concentrat	0.6 qt/a		A						
	N-pak ams	1.5 qt/a		A						
	Enlist Duo	60 oz/a		C						
	N-pak ams	1.5 qt/a		C						
4	Spitfire	20 oz/a		A		100.0 -	100.0 -	100.0 -	100.0 -	75.0 ab
	Credit Xtreme	32 oz/a		A						
	Panther Pro	15 oz/a		A						
	Crop Oil Concentrat	0.6 qt/a		A						
	N-pak ams	1.5 qt/a		A						
	Cheetah	32 oz/a		C						
	N-pak ams	1.5 qt/a		C						
5	Panther Pro	15 oz/a		B		100.0 -	100.0 -	96.7 -	100.0 -	76.7 ab
	Enlist Duo	76 oz/a		B						
	N-pak ams	1.5 qt/a		B						
	Credit Xtreme	32 oz/a		C						
	N-pak ams	1.5 qt/a		C						
6	Panther Pro	15 oz/a		B		93.3 -	100.0 -	98.3 -	100.0 -	56.7 abc
	Enlist Duo	76 oz/a		B						
	N-pak ams	1.5 qt/a		B						
	Enlist Duo	60 oz/a		C						
	N-pak ams	1.5 qt/a		C						
7	Panther Pro	15 oz/a		B		100.0 -	100.0 -	100.0 -	100.0 -	78.3 ab
	Enlist Duo	76 oz/a		B						
	N-pak ams	1.5 qt/a		B						
	Cheetah	32 oz/a		C						
	N-pak ams	1.5 qt/a		C						

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	LAMPU	STEME	SENGL	RANAB	TAROF				
Pest Scientific Name	Lamium purpure>	Stellaria media	Packera glabel>	Ranunculus abo>	Taraxacum offi>				
Pest Name	Purple deadnet>	Common chickwe>	Cressleaf grou>	Smallflower bu>	Common Dandeli>				
Rating Date	May-14-2018	May-14-2018	May-14-2018	May-14-2018	May-14-2018				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1				
Days After First/Last Applic.	24 14	24 14	24 14	24 14	24 14				
Plant-Eval Interval	14 DP-1	14 DP-1	14 DP-1	14 DP-1	14 DP-1				
Days After Emergence	3 DE-1	3 DE-1	3 DE-1	3 DE-1	3 DE-1				
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	1*	2*	3*	4*	5*
8	Spitfire	20 oz/a		A	100.0 -	100.0 -	100.0 -	100.0 -	66.7 abc
	Gramoxone SL	48 oz/a		A					
	Panther Pro	15 oz/a		A					
	Crop Oil Concentrat	0.6 qt/a		A					
	N-pak ams	1.5 qt/a		A					
	Credit Xtreme	32 oz/a		C					
	N-pak ams	1.5 qt/a		C					
9	Spitfire	20 oz/a		A	100.0 -	100.0 -	100.0 -	100.0 -	65.0 abc
	Gramoxone SL	48 oz/a		A					
	Panther Pro	15 oz/a		A					
	Crop Oil Concentrat	0.6 qt/a		A					
	N-pak ams	1.5 qt/a		A					
	Enlist Duo	60 oz/a		C					
	N-pak ams	1.5 qt/a		C					
10	Spitfire	20 oz/a		A	100.0 -	100.0 -	100.0 -	100.0 -	61.7 abc
	Gramoxone SL	48 oz/a		A					
	Panther Pro	15 oz/a		A					
	Crop Oil Concentrat	0.6 qt/a		A					
	N-pak ams	1.5 qt/a		A					
	Cheetah	32 oz/a		C					
	N-pak ams	1.5 qt/a		C					
11	Panther Pro	15 oz/a		B	100.0 -	100.0 -	98.3 -	100.0 -	65.0 abc
	Gramoxone SL	48 oz/a		B					
	Enlist One	32 oz/a		B					
	N-pak ams	1.5 qt/a		B					
	Credit Xtreme	32 oz/a		C					
	N-pak ams	1.5 qt/a		C					
12	Panther Pro	15 oz/a		B	100.0 -	100.0 -	100.0 -	100.0 -	56.7 abc
	Gramoxone SL	48 oz/a		B					
	Enlist One	32 oz/a		B					
	N-pak ams	1.5 qt/a		B					
	Enlist Duo	60 oz/a		C					
	N-pak ams	1.5 qt/a		C					
13	Panther Pro	15 oz/a		B	100.0 -	100.0 -	96.7 -	100.0 -	43.3 c
	Gramoxone SL	48 oz/a		B					
	Enlist One	32 oz/a		B					
	N-pak ams	1.5 qt/a		B					
	Cheetah	32 oz/a		C					
	N-pak ams	1.5 qt/a		C					
14	Spitfire	20 oz/a		A	100.0 -	100.0 -	98.3 -	100.0 -	50.0 bc
	Gramoxone SL	48 oz/a		A					
	Boundary	2.1 pt/a		A					
	Crop Oil Concentrat	0.6 qt/a		A					
	N-pak ams	1.5 qt/a		A					
	Cheetah	32 oz/a		C					
	N-pak ams	1.5 qt/a		C					
LSD P=.05					6.35	.	3.27	.	18.40
Standard Deviation					3.79	0.00	1.95	0.00	10.97
CV					3.83	0.0	1.97	0.0	16.66
Levene's F					0.926	0.00	0.658	0.00	0.37
Levene's Prob(F)					0.54	.	0.785	.	0.969
Skewness					-3.5866*	.	-2.4156*	.	0.1069
Kurtosis					11.8069*	.	5.5833*	.	-1.0737
Replicate F					1.537	0.000	6.735	0.000	12.020
Replicate Prob(F)					0.2340	1.0000	0.0044	1.0000	0.0002
Treatment F					2.006	0.000	1.253	0.000	3.665
Treatment Prob(F)					0.0634	1.0000	0.3007	1.0000	0.0023

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Pest Type	W Weed	O Other	W Weed	W Weed	W Weed
Pest Code	VERAG		TAROF	ERICA	ERICA
Pest Scientific Name	Veronica agres>		Taraxacum offi>	Erigeron canad>	Erigeron canad>
Pest Name	Field speedwell		Common Dandel>	Canada horsewe>	Canada horsewe>
Rating Date	May-14-2018	Jun-7-2018	Jun-7-2018	Jun-7-2018	Jun-7-2018
Rating Type	CONTRO	PHYGEN	CONTRO	CONTRO	COPLPA
Rating Unit	%	%	%	%	2/ROW MI
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	24 14	48 1	48 1	48 1	48 1
Plant-Eval Interval	14 DP-1	38 DP-1	38 DP-1	38 DP-1	38 DP-1
Days After Emergence	3 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	6*	7*	8*	9*	10*
1	Spitfire	20 oz/a		A	87.4 b	0.0 -	93.3 a	95.0 -	1.0 -
	Credit Xtreme	32 oz/a		A					
	N-pak ams	1.5 qt/a		A					
2	Spitfire	20 oz/a		A	100.0 a	0.6 -	90.0 ab	100.0 -	0.0 -
	Credit Xtreme	32 oz/a		A					
	Panther Pro	15 oz/a		A					
	Crop Oil Concentrat	0.6 qt/a		A					
	N-pak ams	1.5 qt/a		A					
	Credit Xtreme	32 oz/a		C					
	N-pak ams	1.5 qt/a		C					
3	Spitfire	20 oz/a		A	100.0 a	0.6 -	43.3 a-d	100.0 -	0.0 -
	Credit Xtreme	32 oz/a		A					
	Panther Pro	15 oz/a		A					
	Crop Oil Concentrat	0.6 qt/a		A					
	N-pak ams	1.5 qt/a		A					
	Enlist Duo	60 oz/a		C					
	N-pak ams	1.5 qt/a		C					
4	Spitfire	20 oz/a		A	100.0 a	0.2 -	40.0 bcd	100.0 -	0.0 -
	Credit Xtreme	32 oz/a		A					
	Panther Pro	15 oz/a		A					
	Crop Oil Concentrat	0.6 qt/a		A					
	N-pak ams	1.5 qt/a		A					
	Cheetah	32 oz/a		C					
	N-pak ams	1.5 qt/a		C					
5	Panther Pro	15 oz/a		B	100.0 a	0.0 -	80.0 abc	90.0 -	1.7 -
	Enlist Duo	76 oz/a		B					
	N-pak ams	1.5 qt/a		B					
	Credit Xtreme	32 oz/a		C					
	N-pak ams	1.5 qt/a		C					
6	Panther Pro	15 oz/a		B	97.0 a	0.0 -	83.3 abc	90.0 -	1.7 -
	Enlist Duo	76 oz/a		B					
	N-pak ams	1.5 qt/a		B					
	Enlist Duo	60 oz/a		C					
	N-pak ams	1.5 qt/a		C					
7	Panther Pro	15 oz/a		B	100.0 a	0.3 -	83.3 abc	100.0 -	0.0 -
	Enlist Duo	76 oz/a		B					
	N-pak ams	1.5 qt/a		B					
	Cheetah	32 oz/a		C					
	N-pak ams	1.5 qt/a		C					

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Panther Pro no-till Enlist soybean programs

Trial ID: 18 PANTHERPRO Location: G-8 West End Trial Year: 2018  
 Protocol ID: 18 PANTHERPRO Investigator: Dr. Mark M. Loux  
 Project ID: H 2018 108 OH 1 Study Director: Bryan Reeb  
 Sponsor Contact: Bob Bruss, Nufarm

Pest Type	W Weed	O Other	W Weed	W Weed	W Weed
Pest Code	VERAG		TAROF	ERICA	ERICA
Pest Scientific Name	Veronica agres>		Taraxacum offi>	Erigeron canad>	Erigeron canad>
Pest Name	Field speedwell		Common Dandel->	Canada horsewe>	Canada horsewe>
Rating Date	May-14-2018	Jun-7-2018	Jun-7-2018	Jun-7-2018	Jun-7-2018
Rating Type	CONTRO	PHYGEN	CONTRO	CONTRO	COPLPA
Rating Unit	%	%	%	%	2/ROW MI
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	24 14	48 1	48 1	48 1	48 1
Plant-Eval Interval	14 DP-1	38 DP-1	38 DP-1	38 DP-1	38 DP-1
Days After Emergence	3 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	6*	7*	8*	9*	10*
8	Spitfire	20 oz/a		A	100.0 a	0.6 -	46.7 a-d	100.0 -	0.0 -
	Gramoxone SL	48 oz/a		A					
	Panther Pro	15 oz/a		A					
	Crop Oil Concentrat	0.6 qt/a		A					
	N-pak ams	1.5 qt/a		A					
	Credit Xtreme	32 oz/a		C					
	N-pak ams	1.5 qt/a		C					
9	Spitfire	20 oz/a		A	100.0 a	0.2 -	20.0 d	100.0 -	0.0 -
	Gramoxone SL	48 oz/a		A					
	Panther Pro	15 oz/a		A					
	Crop Oil Concentrat	0.6 qt/a		A					
	N-pak ams	1.5 qt/a		A					
	Enlist Duo	60 oz/a		C					
	N-pak ams	1.5 qt/a		C					
10	Spitfire	20 oz/a		A	100.0 a	0.6 -	30.0 d	100.0 -	0.0 -
	Gramoxone SL	48 oz/a		A					
	Panther Pro	15 oz/a		A					
	Crop Oil Concentrat	0.6 qt/a		A					
	N-pak ams	1.5 qt/a		A					
	Cheetah	32 oz/a		C					
	N-pak ams	1.5 qt/a		C					
11	Panther Pro	15 oz/a		B	100.0 a	0.6 -	36.7 cd	100.0 -	0.0 -
	Gramoxone SL	48 oz/a		B					
	Enlist One	32 oz/a		B					
	N-pak ams	1.5 qt/a		B					
	Credit Xtreme	32 oz/a		C					
	N-pak ams	1.5 qt/a		C					
12	Panther Pro	15 oz/a		B	99.8 a	0.0 -	26.7 d	100.0 -	0.0 -
	Gramoxone SL	48 oz/a		B					
	Enlist One	32 oz/a		B					
	N-pak ams	1.5 qt/a		B					
	Enlist Duo	60 oz/a		C					
	N-pak ams	1.5 qt/a		C					
13	Panther Pro	15 oz/a		B	100.0 a	0.0 -	20.0 d	100.0 -	0.0 -
	Gramoxone SL	48 oz/a		B					
	Enlist One	32 oz/a		B					
	N-pak ams	1.5 qt/a		B					
	Cheetah	32 oz/a		C					
	N-pak ams	1.5 qt/a		C					
14	Spitfire	20 oz/a		A	100.0 a	0.0 -	26.7 d	96.7 -	0.0 -
	Gramoxone SL	48 oz/a		A					
	Boundary	2.1 pt/a		A					
	Crop Oil Concentrat	0.6 qt/a		A					
	N-pak ams	1.5 qt/a		A					
	Cheetah	32 oz/a		C					
	N-pak ams	1.5 qt/a		C					
LSD P=.05					2.21 - 8.09	3.41 - 99999.57	33.30	9.64	1.65
Standard Deviation					5.09t	4.93t	19.84	5.75	0.98
CV					5.81t	228.11t	38.58	5.86	316.8
Levene's F					0.994	0.482	0.578	0.994	1.043
Levene's Prob(F)					0.481	0.917	0.851	0.482	0.442
Skewness					-3.0702*	1.7773*	0.2763	-3.3615*	3.5944*
Kurtosis					8.5152*	1.4069	-1.3532	11.6079*	12.3075*
Replicate F					1.324	1.604	2.414	2.398	3.293
Replicate Prob(F)					0.2833	0.2203	0.1093	0.1107	0.0531
Treatment F					4.075	0.503	5.977	1.250	1.251
Treatment Prob(F)					0.0011	0.9028	0.0001	0.3027	0.3016



The Ohio State University

Panther Pro no-till Enlist soybean programs

Trial ID: 18 PANTHERPRO Location: G-8 West End Trial Year: 2018  
 Protocol ID: 18 PANTHERPRO Investigator: Dr. Mark M. Loux  
 Project ID: H 2018 108 OH 1 Study Director: Bryan Reeb  
 Sponsor Contact: Bob Bruss, Nufarm

Pest Type	O Other	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	SETFA	ECHCG	AMBTR	ERICA	TAROF
Pest Scientific Name	Setaria faberi	Echinochloa cr>	Ambrosia trifi>	Erigeron canad>	Taraxacum offi>	
Pest Name	Giant foxtail	Common barnyar>	Giant ragweed	Canada horsewe>	Common Dandel>	
Rating Date	Jun-20-2018	Jun-20-2018	Jun-20-2018	Jun-20-2018	Jun-20-2018	Jun-20-2018
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	61 14	61 14	61 14	61 14	61 14	61 14
Plant-Eval Interval	51 DP-1	51 DP-1	51 DP-1	51 DP-1	51 DP-1	51 DP-1
Days After Emergence	40 DE-1	40 DE-1	40 DE-1	40 DE-1	40 DE-1	40 DE-1

Trt	Treatment	Other	Other	Appl	11*	12*	13*	14*	15*	16*
No.	Name	Rate	Rate	Unit Code						
1	Spitfire	20 oz/a		A	0.0 -	0.0 -	0.0 d	0.0 b	0.0 c	0.0 c
	Credit Xtreme	32 oz/a		A						
	N-pak ams	1.5 qt/a		A						
2	Spitfire	20 oz/a		A	0.0 -	100.0 -	99.8 a	95.0 a	96.7 a	96.0 a
	Credit Xtreme	32 oz/a		A						
	Panther Pro	15 oz/a		A						
	Crop Oil Concentrat	0.6 qt/a		A						
	N-pak ams	1.5 qt/a		A						
	Credit Xtreme	32 oz/a		C						
	N-pak ams	1.5 qt/a		C						
3	Spitfire	20 oz/a		A	0.0 -	100.0 -	99.4 ab	100.0 a	96.7 a	80.0 ab
	Credit Xtreme	32 oz/a		A						
	Panther Pro	15 oz/a		A						
	Crop Oil Concentrat	0.6 qt/a		A						
	N-pak ams	1.5 qt/a		A						
	Enlist Duo	60 oz/a		C						
	N-pak ams	1.5 qt/a		C						
4	Spitfire	20 oz/a		A	0.0 -	100.0 -	94.8 bc	100.0 a	100.0 a	100.0 a
	Credit Xtreme	32 oz/a		A						
	Panther Pro	15 oz/a		A						
	Crop Oil Concentrat	0.6 qt/a		A						
	N-pak ams	1.5 qt/a		A						
	Cheetah	32 oz/a		C						
	N-pak ams	1.5 qt/a		C						
5	Panther Pro	15 oz/a		B	0.0 -	100.0 -	99.8 a	100.0 a	88.3 b	90.0 ab
	Enlist Duo	76 oz/a		B						
	N-pak ams	1.5 qt/a		B						
	Credit Xtreme	32 oz/a		C						
	N-pak ams	1.5 qt/a		C						
6	Panther Pro	15 oz/a		B	0.0 -	100.0 -	97.1 ab	98.3 a	95.0 a	91.7 ab
	Enlist Duo	76 oz/a		B						
	N-pak ams	1.5 qt/a		B						
	Enlist Duo	60 oz/a		C						
	N-pak ams	1.5 qt/a		C						
7	Panther Pro	15 oz/a		B	0.0 -	100.0 -	90.4 c	100.0 a	100.0 a	98.3 a
	Enlist Duo	76 oz/a		B						
	N-pak ams	1.5 qt/a		B						
	Cheetah	32 oz/a		C						
	N-pak ams	1.5 qt/a		C						

The Ohio State University

Panther Pro no-till Enlist soybean programs

Trial ID: 18 PANTHERPRO Location: G-8 West End Trial Year: 2018  
 Protocol ID: 18 PANTHERPRO Investigator: Dr. Mark M. Loux  
 Project ID: H 2018 108 OH 1 Study Director: Bryan Reeb  
 Sponsor Contact: Bob Bruss, Nufarm

Pest Type	O Other	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	ECHCG	AMBTR	ERICA	TAROF
Pest Scientific Name		Setaria faberi	Echinochloa cr>	Ambrosia trifi>	Erigeron canad>	Taraxacum offi>
Pest Name		Giant foxtail	Common barnyar>	Giant ragweed	Canada horsewe>	Common Dandeli>
Rating Date	Jun-20-2018	Jun-20-2018	Jun-20-2018	Jun-20-2018	Jun-20-2018	Jun-20-2018
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	61 14	61 14	61 14	61 14	61 14	61 14
Plant-Eval Interval	51 DP-1	51 DP-1	51 DP-1	51 DP-1	51 DP-1	51 DP-1
Days After Emergence	40 DE-1	40 DE-1	40 DE-1	40 DE-1	40 DE-1	40 DE-1

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	11*	12*	13*	14*	15*	16*
8	Spitfire	20 oz/a		A	0.0 -	100.0 -	100.0 a	100.0 a	100.0 a	83.3 ab
	Gramoxone SL	48 oz/a		A						
	Panther Pro	15 oz/a		A						
	Crop Oil Concentrat	0.6 qt/a		A						
	N-pak ams	1.5 qt/a		A						
	Credit Xtreme	32 oz/a		C						
	N-pak ams	1.5 qt/a		C						
9	Spitfire	20 oz/a		A	0.0 -	100.0 -	100.0 a	100.0 a	100.0 a	73.3 b
	Gramoxone SL	48 oz/a		A						
	Panther Pro	15 oz/a		A						
	Crop Oil Concentrat	0.6 qt/a		A						
	N-pak ams	1.5 qt/a		A						
	Enlist Duo	60 oz/a		C						
	N-pak ams	1.5 qt/a		C						
10	Spitfire	20 oz/a		A	0.0 -	100.0 -	98.0 ab	100.0 a	100.0 a	96.7 a
	Gramoxone SL	48 oz/a		A						
	Panther Pro	15 oz/a		A						
	Crop Oil Concentrat	0.6 qt/a		A						
	N-pak ams	1.5 qt/a		A						
	Cheetah	32 oz/a		C						
	N-pak ams	1.5 qt/a		C						
11	Panther Pro	15 oz/a		B	0.0 -	100.0 -	100.0 a	100.0 a	100.0 a	91.7 ab
	Gramoxone SL	48 oz/a		B						
	Enlist One	32 oz/a		B						
	N-pak ams	1.5 qt/a		B						
	Credit Xtreme	32 oz/a		C						
	N-pak ams	1.5 qt/a		C						
12	Panther Pro	15 oz/a		B	0.0 -	100.0 -	99.8 a	100.0 a	98.3 a	73.3 b
	Gramoxone SL	48 oz/a		B						
	Enlist One	32 oz/a		B						
	N-pak ams	1.5 qt/a		B						
	Enlist Duo	60 oz/a		C						
	N-pak ams	1.5 qt/a		C						
13	Panther Pro	15 oz/a		B	0.0 -	100.0 -	89.1 c	100.0 a	100.0 a	96.7 a
	Gramoxone SL	48 oz/a		B						
	Enlist One	32 oz/a		B						
	N-pak ams	1.5 qt/a		B						
	Cheetah	32 oz/a		C						
	N-pak ams	1.5 qt/a		C						
14	Spitfire	20 oz/a		A	0.0 -	100.0 -	99.1 ab	100.0 a	100.0 a	99.3 a
	Gramoxone SL	48 oz/a		A						
	Boundary	2.1 pt/a		A						
	Crop Oil Concentrat	0.6 qt/a		A						
	N-pak ams	1.5 qt/a		A						
	Cheetah	32 oz/a		C						
	N-pak ams	1.5 qt/a		C						
	LSD P=.05				.	.	1.28 - 6.02	4.00	4.88	13.70
	Standard Deviation				0.00	0.00	3.88t	2.38	2.91	8.16
	CV				0.0	0.0	5.01t	2.58	3.2	9.76
	Levene's F				0.00	0.00	0.655	0.954	0.749	0.641
	Levene's Prob(F)				.	.	0.788	0.516	0.702	0.799
	Skewness				.	-3.4528*	-2.9087*	-3.4053*	-3.303*	-2.4312*
	Kurtosis				.	10.4158*	7.9328*	10.1832*	9.7078*	5.7583*
	Replicate F				0.000	0.000	3.618	1.677	5.692	3.073
	Replicate Prob(F)				1.0000	1.0000	0.0411	0.2065	0.0089	0.0634
	Treatment F				0.000	0.000	107.310	374.548	247.097	29.827
	Treatment Prob(F)				1.0000	1.0000	0.0001	0.0001	0.0001	0.0001

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Panther Pro no-till Enlist soybean programs

Trial ID: 18 PANTHERPRO Location: G-8 West End Trial Year: 2018  
 Protocol ID: 18 PANTHERPRO Investigator: Dr. Mark M. Loux  
 Project ID: H 2018 108 OH 1 Study Director: Bryan Reeb  
 Sponsor Contact: Bob Bruss, Nufarm

Pest Type	O Other	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	ECHCG	AMBTR	ERICA	TAROF
Pest Scientific Name		Setaria faberi	Echinochloa cr>	Ambrosia trifi>	Erigeron canad>	Taraxacum offi>
Pest Name		Giant foxtail	Common barnyar>	Giant ragweed	Canada horsewe>	Common Dandel>
Rating Date	Jul-2-2018	Jul-2-2018	Jul-2-2018	Jul-2-2018	Jul-2-2018	Jul-2-2018
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	73 26	73 26	73 26	73 26	73 26	73 26
Plant-Eval Interval	63 DP-1	63 DP-1	63 DP-1	63 DP-1	63 DP-1	63 DP-1
Days After Emergence	52 DE-1	52 DE-1	52 DE-1	52 DE-1	52 DE-1	52 DE-1

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	17*	18*	19*	20*	21*	22*
1	Spitfire	20 oz/a		A	0.0 -	0.0 c		0.0 c	0.0 b	
	Credit Xtreme	32 oz/a		A						96.7 -
	N-pak ams	1.5 qt/a		A						0.0 b
2	Spitfire	20 oz/a		A	0.0 -	100.0 a		99.8 a	99.3 a	95.0 -
	Credit Xtreme	32 oz/a		A						100.0 a
	Panther Pro	15 oz/a		A						
	Crop Oil Concentrat	0.6 qt/a		A						
	N-pak ams	1.5 qt/a		A						
	Credit Xtreme	32 oz/a		C						
	N-pak ams	1.5 qt/a		C						
3	Spitfire	20 oz/a		A	0.0 -	99.3 a		100.0 a	100.0 a	100.0 -
	Credit Xtreme	32 oz/a		A						99.3 a
	Panther Pro	15 oz/a		A						
	Crop Oil Concentrat	0.6 qt/a		A						
	N-pak ams	1.5 qt/a		A						
	Enlist Duo	60 oz/a		C						
	N-pak ams	1.5 qt/a		C						
4	Spitfire	20 oz/a		A	0.0 -	99.3 a		86.8 b	100.0 a	100.0 -
	Credit Xtreme	32 oz/a		A						100.0 a
	Panther Pro	15 oz/a		A						
	Crop Oil Concentrat	0.6 qt/a		A						
	N-pak ams	1.5 qt/a		A						
	Cheetah	32 oz/a		C						
	N-pak ams	1.5 qt/a		C						
5	Panther Pro	15 oz/a		B	0.0 -	100.0 a		99.4 a	100.0 a	93.3 -
	Enlist Duo	76 oz/a		B						100.0 a
	N-pak ams	1.5 qt/a		B						
	Credit Xtreme	32 oz/a		C						
	N-pak ams	1.5 qt/a		C						
6	Panther Pro	15 oz/a		B	0.0 -	100.0 a		99.4 a	100.0 a	100.0 -
	Enlist Duo	76 oz/a		B						98.3 a
	N-pak ams	1.5 qt/a		B						
	Enlist Duo	60 oz/a		C						
	N-pak ams	1.5 qt/a		C						
7	Panther Pro	15 oz/a		B	0.0 -	100.0 a		90.0 b	100.0 a	100.0 -
	Enlist Duo	76 oz/a		B						98.3 a
	N-pak ams	1.5 qt/a		B						
	Cheetah	32 oz/a		C						
	N-pak ams	1.5 qt/a		C						

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Panther Pro no-till Enlist soybean programs

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 Protocol ID: 18 PANTHERPRO Investigator: Dr. Mark M. Loux  
 Project ID: H 2018 108 OH 1 Study Director: Bryan Reeb  
 Sponsor Contact: Bob Bruss, Nufarm

Pest Type	O Other	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	ECHCG	AMBTR	ERICA	TAROF
Pest Scientific Name		Setaria faberi	Echinochloa cr>	Ambrosia trifi>	Erigeron canad>	Taraxacum offi>
Pest Name		Giant foxtail	Common barnyar>	Giant ragweed	Canada horsewe>	Common Dandel>
Rating Date	Jul-2-2018	Jul-2-2018	Jul-2-2018	Jul-2-2018	Jul-2-2018	Jul-2-2018
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	73 26	73 26	73 26	73 26	73 26	73 26
Plant-Eval Interval	63 DP-1	63 DP-1	63 DP-1	63 DP-1	63 DP-1	63 DP-1
Days After Emergence	52 DE-1	52 DE-1	52 DE-1	52 DE-1	52 DE-1	52 DE-1

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	17*	18*	19*	20*	21*	22*
8	Spitfire	20 oz/a		A	0.0 -	98.3 a	98.9 a	100.0 a	100.0 -	97.7 a
	Gramoxone SL	48 oz/a		A						
	Panther Pro	15 oz/a		A						
	Crop Oil Concentrat	0.6 qt/a		A						
	N-pak ams	1.5 qt/a		A						
	Credit Xtreme	32 oz/a		C						
	N-pak ams	1.5 qt/a		C						
9	Spitfire	20 oz/a		A	0.0 -	100.0 a	99.1 a	100.0 a	100.0 -	100.0 a
	Gramoxone SL	48 oz/a		A						
	Panther Pro	15 oz/a		A						
	Crop Oil Concentrat	0.6 qt/a		A						
	N-pak ams	1.5 qt/a		A						
	Enlist Duo	60 oz/a		C						
	N-pak ams	1.5 qt/a		C						
10	Spitfire	20 oz/a		A	0.0 -	95.0 b	87.0 b	100.0 a	100.0 -	100.0 a
	Gramoxone SL	48 oz/a		A						
	Panther Pro	15 oz/a		A						
	Crop Oil Concentrat	0.6 qt/a		A						
	N-pak ams	1.5 qt/a		A						
	Cheetah	32 oz/a		C						
	N-pak ams	1.5 qt/a		C						
11	Panther Pro	15 oz/a		B	0.0 -	100.0 a	99.8 a	100.0 a	96.7 -	99.3 a
	Gramoxone SL	48 oz/a		B						
	Enlist One	32 oz/a		B						
	N-pak ams	1.5 qt/a		B						
	Credit Xtreme	32 oz/a		C						
	N-pak ams	1.5 qt/a		C						
12	Panther Pro	15 oz/a		B	0.0 -	100.0 a	99.8 a	100.0 a	100.0 -	100.0 a
	Gramoxone SL	48 oz/a		B						
	Enlist One	32 oz/a		B						
	N-pak ams	1.5 qt/a		B						
	Enlist Duo	60 oz/a		C						
	N-pak ams	1.5 qt/a		C						
13	Panther Pro	15 oz/a		B	0.0 -	96.7 ab	84.5 b	100.0 a	100.0 -	96.7 a
	Gramoxone SL	48 oz/a		B						
	Enlist One	32 oz/a		B						
	N-pak ams	1.5 qt/a		B						
	Cheetah	32 oz/a		C						
	N-pak ams	1.5 qt/a		C						
14	Spitfire	20 oz/a		A	0.0 -	98.3 a	77.0 b	100.0 a	100.0 -	100.0 a
	Gramoxone SL	48 oz/a		A						
	Boundary	2.1 pt/a		A						
	Crop Oil Concentrat	0.6 qt/a		A						
	N-pak ams	1.5 qt/a		A						
	Cheetah	32 oz/a		C						
	N-pak ams	1.5 qt/a		C						
	LSD P=.05				.	2.36	2.71 - 12.20	0.52	5.41	3.08
	Standard Deviation				0.00	1.41	5.64t	0.31	3.22	1.84
	CV				0.0	1.53	7.68t	0.33	3.27	1.99
	Levene's F				0.00	0.742	0.399	1.00	0.78	0.802
	Levene's Prob(F)				.	0.709	0.958	0.477	0.674	0.653
	Skewness				.	-3.4217*	-2.3341*	-3.4519*	-2.6412*	-3.4187*
	Kurtosis				.	10.275*	5.533*	10.412*	5.7788*	10.2574*
	Replicate F				0.000	0.974	1.176	1.000	3.837	4.498
	Replicate Prob(F)				1.0000	0.3909	0.3243	0.3816	0.0347	0.0210
	Treatment F				0.000	1064.238	50.854	22477.925	1.502	626.473
	Treatment Prob(F)				1.0000	0.0001	0.0001	0.0001	0.1825	0.0001

## The Ohio State University

Panther Pro no-till Enlist soybean programs

Trial ID: 18 PANTHERPRO      Location: G-8 West End      Trial Year: 2018  
 Protocol ID: 18 PANTHERPRO      Investigator: Dr. Mark M. Loux  
 Project ID: H 2018 108 OH 1      Study Director: Bryan Reeb  
 Sponsor Contact: Bob Bruss, Nufarm

Pest Type

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

O, Other, G-BYRO7, G-OthStg = Other animal or nematode

Pest Code

LAMPU, Lamium purpureum, Purple deadnettle = US

STEME, Stellaria media, Common chickweed = US

SENGL, Packera glabella, Cressleaf groundsel = US

RANAB, Ranunculus abortivus, Smallflower buttercup = US

TAROF, Taraxacum officinale, Common Dandelion = US

VERAG, Veronica agrestis, Field speedwell = US

ERICA, Erigeron canadensis, Canada horseweed = US

SETFA, Setaria faberi, Giant foxtail = US

ECHCG, Echinochloa crus-galli, Common barnyard grass = US

AMBTR, Ambrosia trifida, Giant ragweed = US

Rating Type

CONTRO = control / burndown or knockdown

PHYGEN = phytotoxicity - general / injury

COPLPA = count - plant part

Rating Unit

% = percent

Plant-Eval Interval

14 DP-1 = 1 GLXMA Apr-30-2018

38 DP-1 = 1 GLXMA Apr-30-2018

51 DP-1 = 1 GLXMA Apr-30-2018

63 DP-1 = 1 GLXMA Apr-30-2018