

The Ohio State University  
 Enlist Corn Weed Control Programs PRE fb V4 Post with Residual in COI Trials  
 Trial ID: 18ENLCORN Location: Trial Year: 2018  
 Protocol ID: NA18P2E001 Investigator: Dr. Mark M. Loux  
 Project ID: Study Director:  
 Sponsor Contact:

### General Trial Information

**Investigator:** Dr. Mark M. Loux

**Planned Completion Date:** Sep-14-2018

### 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 °:** 39.85957 N  
**Longitude of LL Corner °:** 83.67652 W  
**Altitude of LL Corner, Unit:** 1087.00 FT

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

### Objectives:

How does the efficacy and crop tolerance of SureStart II (GF-3005) fb Enlist Duo POST (GF-2726) and SureStart II + Enlist Duo EPOST compare to commercial standards in Enlist corn in university trial locations?

**Investigator:** Dr. Mark M. Loux

### Crop Description

**Crop 1:** ZEAMX Zea mays Corn  
**Variety:** DS-8508SE **BBCH Scale:** BCOR  
**Description:** AAD-1/GLY-TOL

**Planting Date:** Apr-29-2018  
**Planting Method:** PLANT  
**Planting Equipment:** FPP finger pickup planter  
**Emergence Date:** May-10-2018  
**Planting Rate, Unit:** 32097 S/A  
**Depth, Unit:** 2 IN  
**Row Spacing, Unit:** 30 IN  
**Rows per Plot:** 4  
**Soil Temperature, Unit:** 58 F  
**Soil Moisture:** SLIWET slightly wet, moist  
**Seed Bed:** CLODDY cloddy

### Pest Description

**Pest 1 Type:** W **Code:** AMBTR Ambrosia trifida  
**Common Name:** Giant ragweed  
**Description:** GLY-RES

**Pest 2 Type:** W **Code:** ABUTH Abutilon theophrasti  
**Common Name:** velvetleaf

**Pest 3 Type:** W **Code:** CHEAL Chenopodium album  
**Common Name:** common lambsquarters

**Pest 4 Type:** W **Code:** AMARE Amaranthus retroflexus  
**Common Name:** Redroot pigweed

**Pest 5 Type:** W **Code:** SETFA Setaria faberi  
**Common Name:** Giant foxtail

### Site and Design

**Treated Plot Width:** 6.67 FT  
**Treated Plot Length:** 30 FT  
**Treated Plot Area:** 200.1 FT<sup>2</sup> **Treatments:** 8  
**Replications:** 3  
**Untreated Arrangement:** INCLUDED single control randomized in each block  
**Site Type:** FIELD field  
**Experimental Unit:** 1 PLOT plot  
**Tillage Type:** CONTIL conventional-till  
**Study Design:** RACOBL Randomized Complete Block (RCB)

### No. Previous Crop Year

1. Soybean 2017

### Soil Description

**Description Name:** G-6  
**% Sand:** 32 **% OM:** 2.2 **Texture:** SICL silty clay loam  
**% Silt:** 53 **pH:** 5.9 **Soil Name:** Kokomo  
**% Clay:** 15 **CEC:** 14.8 **Fert. Level:** G good  
**Soil Drainage:** G good

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#### Application Description

	A	B	C
Application Date:	Apr-30-2018	May-16-2018	May-29-2018
Appl. Start Time:	11:00 AM	11:10 AM	11:30 AM
Appl. Stop Time:	11:15 AM	11:20 AM	11:45 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	V2	V4
Application Placement:	BROSOL	BROFOL	BROFOL
Applied By:	Lamb	Reeb	Lamb
Air Temperature, Unit:	60 F	66 F	81 F
% Relative Humidity:	35	77	63
Wind Velocity, Unit:	4 MPH	3 MPH	12 MPH
Wind Direction:	SW	NE	SE
Dew Presence (Y/N):	N no	Y yes	N no
Soil Temperature, Unit:	50 F	66 F	81 F
Soil Moisture:	SLIWET	SLIWET	DRY
% Cloud Cover:	30	100	40
Next Moisture Occurred On:	May-3-2018	May-18-2018	May-31-2018
Time to Next Moisture, Unit:	3 DAY	2 DAY	2 DAY
Moisture 1 Week after Appl.:	0.71 IN	1.44 IN	0.55 IN

#### Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH	BBCH
Stage Majority, Percent:		12 100	16 100
Height, Unit:		4 IN	20 IN
Height Minimum, Maximum:		4 5	18 22

#### Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W
Stage Majority, Percent:		12 100	16 100
Diameter, Unit:		6 IN	
Height, Unit:		2 IN	6 IN
Height Minimum, Maximum:			4 6
Density, Unit:		8 M2	8 m2
Pest 2 Code, Type, Scale:	ABUTH W	ABUTH W	ABUTH W
Stage Majority, Percent:		12 100	14 100
Diameter, Unit:		2 IN	
Height, Unit:		1.5 IN	4 IN
Height Minimum, Maximum:			4 6
Density, Unit:		0.33 M2	0.33 M2
Pest 3 Code, Type, Scale:	CHEAL W	CHEAL W	CHEAL W
Stage Majority, Percent:		12 100	16 100
Diameter, Unit:		1 IN	
Height, Unit:		0.5 IN	4 IN
Height Minimum, Maximum:		0.5 1	2 4
Density, Unit:		0.33 M2	0.33 M2
Pest 4 Code, Type, Scale:	AMARE W	AMARE W	AMARE W
Stage Majority, Percent:		12 100	
Diameter, Unit:		0.5 IN	
Height, Unit:		0.5 IN	
Height Minimum, Maximum:		0.5 1	
Density, Unit:		1 M2	
Pest 5 Code, Type, Scale:	SETFA W	SETFA W	SETFA W
Stage Majority, Percent:		13 100	15 100
Height, Unit:		2 IN	4 IN
Height Minimum, Maximum:		0.5 3.5	4 6
Density, Unit:		223 M2	223 m2

#### Application Equipment

	B	C
Appl. Equipment:	6' AI XR	
Equipment Type:	SPRBAC	
Operation Pressure, Unit:	46 PSI	
Nozzle Type:	AI XR	
Nozzle Size:	110015	
Nozzle Spacing, Unit:	18 IN	
Boom Length, Unit:	6 FT	
Boom Height, Unit:	20 IN	
Ground Speed, Unit:	3 MPH	
Carrier:	WATER	
Spray Volume, Unit:	15 GPA	
Mix Size, Unit:	2 L	
Propellant:	CO2	

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Pest Type	MAIZE/FIELD	MAIZE/FIELD	MAIZE/FIELD	MAIZE/FIELD	MAIZE/FIELD		
Pest Code							
Pest Scientific Name							
Pest Name							
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX		
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR		
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays		
Crop Name	Corn	Corn	Corn	Corn	Corn		
Crop Variety	ENLIST HYBRID	ENLIST HYBRID	ENLIST HYBRID	ENLIST HYBRID	ENLIST HYBRID		
Description	> POST	> POST	> POST	> POST	> POST		
Part Rated	PLANT -	PLANT -	PLANT -	PLANT -	PLANT -		
Rating Date	Jun-5-2018	Jun-5-2018	Jun-5-2018	Jun-5-2018	Jun-5-2018		
Rating Type	INJURY	GROINHIB	CHLORO	NECROSIS	LEANING		
Rating Unit	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL		
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT		
Number of Subsamples	1	1	1	1	1		
Days After First/Last Applic.	36 7	36 7	36 7	36 7	36 7		
Trt-Eval Interval	7DAAC	7DAAC	7DAAC	7DAAC	7DAAC		
Plant-Eval Interval	37 DP-1	37 DP-1	37 DP-1	37 DP-1	37 DP-1		
Days After Emergence	26 DE-1	26 DE-1	26 DE-1	26 DE-1	26 DE-1		
ARM Action Codes	P	P	P	P	P		
Number of Decimals	0	0	0	0	0		
Trt Treatment	Rate	Appl	1*	2*	3*	4*	5*
No. Name	Rate Unit	Code					
1 SureStart II	1170 g ae/ha A		0 -	0 -	0 -	0 -	0 -
ENLIST DUO	1640 g ae/ha C						
AMMONIUM SULFATE	2.5 % v/v C						
2 SureStart II	1170 g ae/ha A		0 -	0 -	0 -	0 -	0 -
ENLIST DUO	2185 g ae/ha C						
AMMONIUM SULFATE	2.5 % v/v C						
3 RESICORE HERBICIDE	1390 g ae/ha B		0 -	0 -	0 -	0 -	0 -
ENLIST DUO	1640 g ae/ha B						
AMMONIUM SULFATE	2.5 % v/v B						
4 RESICORE HERBICIDE	1390 g ae/ha B		0 -	0 -	0 -	0 -	0 -
ENLIST DUO	2185 g ae/ha B						
AMMONIUM SULFATE	2.5 % v/v B						
5 SureStart II	1170 g ae/ha A		0 -	0 -	0 -	0 -	0 -
Liberty	595 g ae/ha C						
N Pak AMS	2.5 % v/v C						
6 SureStart II	1170 g ae/ha A		0 -	0 -	0 -	0 -	0 -
Liberty	595 g ae/ha C						
Enlist One	560 g ae/ha C						
N Pak AMS	2.5 % v/v C						
7 RESICORE HERBICIDE	1390 g ae/ha B		0 -	0 -	0 -	0 -	0 -
Liberty	595 g ae/ha B						
AMMONIUM SULFATE	2.5 % v/v B						
8 RESICORE HERBICIDE	1390 g ae/ha B		0 -	0 -	0 -	0 -	0 -
Liberty	595 g ae/ha B						
Enlist One	560 g ae/ha B						
N Pak AMS	2.5 % v/v B						
LSD P=.05	.		.	.	.	.	.
Standard Deviation			0.0	0.0	0.0	0.0	0.0
CV			0.0	0.0	0.0	0.0	0.0
Levene's F			0.00	0.00	0.00	0.00	0.00
Levene's Prob(F)			.	.	.	.	.
Skewness			.	.	.	.	.
Kurtosis			.	.	.	.	.
Replicate F			0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F			0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)			1.0000	1.0000	1.0000	1.0000	1.0000

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 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	SETFA	AMBTR
Pest Scientific Name	Setaria faberi	Ambrosia trifida	Chenopodium album	Setaria faberi	Ambrosia trifida
Pest Name	Giant foxtail	Giant ragweed	common lambsquarters	Giant foxtail	Giant ragweed
Crop Code	ZEAMX				
BBCH Scale	BCOR				
Crop Scientific Name	Zea mays				
Crop Name	Corn				
Crop Variety	DS-8508SE				
Description	AT POST	AT POST	AT POST	AT POST	
Part Rated	PLANT -	PLANT -	PLANT -	PLANT -	PLANT -
Rating Date	May-29-2018	May-29-2018	May-29-2018	May-29-2018	Jun-11-2018
Rating Type	PHYGEN	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	29 13	29 13	29 13	29 13	42 13
Trt-Eval Interval	0 DA-C	0 DA-C	0 DA-C	0 DA-C	13 DA-C
Plant-Eval Interval	30 DP-1	30 DP-1	30 DP-1	30 DP-1	43 DP-1
Days After Emergence	19 DE-1	19 DE-1	19 DE-1	19 DE-1	32 DE-1
ARM Action Codes		ET5		AA	ER1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Code	6*	7*	8*	9*	10*	11*
1	SureStart II	1170 g ae/ha	A	0 -	100 -	82 a	100 -	100 -	88 -
	ENLIST DUO	1640 g ae/ha	C						
	AMMONIUM SULFATE	2.5 % v/v	C						
2	SureStart II	1170 g ae/ha	A	0 -	98 -	67 b	100 -	99 -	85 -
	ENLIST DUO	2185 g ae/ha	C						
	AMMONIUM SULFATE	2.5 % v/v	C						
3	RESICORE HERBICIDE	1390 g ae/ha	B	0 -	100 -	95 a	100 -	99 -	84 -
	ENLIST DUO	1640 g ae/ha	B						
	AMMONIUM SULFATE	2.5 % v/v	B						
4	RESICORE HERBICIDE	1390 g ae/ha	B	0 -	100 -	95 a	100 -	100 -	84 -
	ENLIST DUO	2185 g ae/ha	B						
	AMMONIUM SULFATE	2.5 % v/v	B						
5	SureStart II	1170 g ae/ha	A	0 -	357	65 b	100 -	99 -	83 -
	Liberty	595 g ae/ha	C						
	N Pak AMS	2.5 % v/v	C						
6	SureStart II	1170 g ae/ha	A	0 -	99 -	67 b	100 -	100 -	90 -
	Liberty	595 g ae/ha	C						
	Enlist One	560 g ae/ha	C						
	N Pak AMS	2.5 % v/v	C						
7	RESICORE HERBICIDE	1390 g ae/ha	B	0 -	95 -	88 a	100 -	92 -	82 -
	Liberty	595 g ae/ha	B						
	AMMONIUM SULFATE	2.5 % v/v	B						
8	RESICORE HERBICIDE	1390 g ae/ha	B	0 -	98 -	88 a	100 -	99 -	85 -
	Liberty	595 g ae/ha	B						
	Enlist One	560 g ae/ha	B						
	N Pak AMS	2.5 % v/v	B						
	LSD P=.05				6.7	11.8		3.6 - 6.9	13.2
	Standard Deviation			0.0	3.8	6.7	0.0	6.3t	5.6
	CV			0.0	3.81	8.31	0.0	7.34t	6.57
	Levene's F			0.00	0.861	0.266	0.00	1.168	
	Levene's Prob(F)			.	0.546	0.958	.	0.373	
	Skewness			.	-3.4174*	-0.2224	.	-2.0873*	0.6577
	Kurtosis			.	12.6861*	-1.3474	.	5.0436*	1.1682
	Replicate F			0.000	0.246	2.332	0.000	2.111	2.065
	Replicate Prob(F)			1.0000	0.7859	0.1336	1.0000	0.1580	0.1939
	Treatment F			0.000	0.778	11.054	0.000	2.013	0.498
	Treatment Prob(F)			1.0000	0.6027	0.0001	1.0000	0.1256	0.8112

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Trial ID: 18ENLCORN Location: Trial Year: 2018

Protocol ID: NA18P2E001 Investigator: Dr. Mark M. Loux

Project ID: Study Director:

Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ABUTH	SETFA	AMBTR	ABUTH	SETFA	AMBTR
Pest Scientific Name	Abutilon theop>	Setaria faberi	Ambrosia trifi>	Abutilon theop>	Setaria faberi	Ambrosia trifi>
Pest Name	velvetleaf	Giant foxtail	Giant ragweed	velvetleaf	Giant foxtail	Giant ragweed
Crop Code						
BBCH Scale						
Crop Scientific Name						
Crop Name						
Crop Variety						
Description						
Part Rated	PLANT -	PLANT -	PLANT -	PLANT -	PLANT -	PLANT -
Rating Date	Jun-11-2018	Jun-25-2018	Jun-25-2018	Jun-25-2018	Jul-12-2018	Jul-12-2018
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL	%VISUAL
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	42 13	56 27	56 27	56 27	73 44	73 44
Trt-Eval Interval	13 DA-C	27 DA-C	27 DA-C	27 DA-C	44 DA-C	44 DA-C
Plant-Eval Interval	43 DP-1	57 DP-1	57 DP-1	57 DP-1	74 DP-1	74 DP-1
Days After Emergence	32 DE-1	46 DE-1	46 DE-1	46 DE-1	63 DE-1	63 DE-1
ARM Action Codes		AA				ET2
Number of Decimals	0	0	0	0	0	0

Trt Treatment	Rate	Appl	12*	13*	14*	15*	16*	17*
No. Name	Rate Unit	Code						
1 SureStart II	1170 g ae/ha	A	100 -	100 -	88 -	100 -	98 -	89 -
ENLIST DUO	1640 g ae/ha	C						
AMMONIUM SULFATE	2.5 % v/v	C						
2 SureStart II	1170 g ae/ha	A	100 -	94 -	85 -	100 -	87 -	85
ENLIST DUO	2185 g ae/ha	C						
AMMONIUM SULFATE	2.5 % v/v	C						
3 RESICORE HERBICIDE	1390 g ae/ha	B	100 -	99 -	82 -	100 -	95 -	82 -
ENLIST DUO	1640 g ae/ha	B						
AMMONIUM SULFATE	2.5 % v/v	B						
4 RESICORE HERBICIDE	1390 g ae/ha	B	100 -	100 -	84 -	100 -	96 -	85 -
ENLIST DUO	2185 g ae/ha	B						
AMMONIUM SULFATE	2.5 % v/v	B						
5 SureStart II	1170 g ae/ha	A	100 -	93 -	84 -	100 -	92 -	83 -
Liberty	595 g ae/ha	C						
N Pak AMS	2.5 % v/v	C						
6 SureStart II	1170 g ae/ha	A	100 -	96 -	90 -	100 -	92 -	87 -
Liberty	595 g ae/ha	C						
Enlist One	560 g ae/ha	C						
N Pak AMS	2.5 % v/v	C						
7 RESICORE HERBICIDE	1390 g ae/ha	B	100 -	93 -	85 -	100 -	87 -	82 -
Liberty	595 g ae/ha	B						
AMMONIUM SULFATE	2.5 % v/v	B						
8 RESICORE HERBICIDE	1390 g ae/ha	B	100 -	96 -	86 -	100 -	98 -	91 -
Liberty	595 g ae/ha	B						
Enlist One	560 g ae/ha	B						
N Pak AMS	2.5 % v/v	B						
LSD P=.05			.	5.7 - 6.7	4.6	.	9.4	12.2
Standard Deviation			0.0	6.9t	2.6	0.0	5.4	6.8
CV			0.0	8.56t	3.09	0.0	5.78	7.98
Levene's F			0.00	0.361	0.667	0.00	0.671	0.877
Levene's Prob(F)			.	0.912	0.697	.	0.694	0.536
Skewness			.	-0.389	0.7022	.	-0.2352	0.5103
Kurtosis			.	-1.3291	0.0955	.	-1.7102	0.3533
Replicate F			0.000	6.895	8.918	0.000	0.478	3.695
Replicate Prob(F)			1.0000	0.0082	0.0032	1.0000	0.6296	0.0562
Treatment F			0.000	1.946	2.356	0.000	2.198	0.784
Treatment Prob(F)			1.0000	0.1369	0.0817	1.0000	0.0995	0.5986

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Sponsor Contact:

Pest Type W Weed  
 Pest Code ABUTH  
 Pest Scientific Name Abutilon  
 theop>  
 velvetleaf  
 Pest Name  
 Crop Code  
 BBCH Scale  
 Crop Scientific Name  
 Crop Name  
 Crop Variety  
 Description  
 Part Rated PLANT -  
 Rating Date Jul-12-2018  
 Rating Type CONTROL  
 Rating Unit %VISUAL  
 Sample Size, Unit 1 PLOT  
 Number of Subsamples 1 1  
 Days After First/Last Applic. 73 44  
 Trt-Eval Interval 44 DA-C  
 Plant-Eval Interval 74 DP-1  
 Days After Emergence 63 DE-1  
 ARM Action Codes  
 Number of Decimals 0

Trt	Treatment	Rate	Appl		
No.	Name	Rate Unit	Code	18*	19

1	SureStart II	1170 g ae/ha A		100	-
	ENLIST DUO	1640 g ae/ha C			
	AMMONIUM SULFATE	2.5 % v/v C			
2	SureStart II	1170 g ae/ha A		100	-
	ENLIST DUO	2185 g ae/ha C			
	AMMONIUM SULFATE	2.5 % v/v C			
3	RESICORE HERBICIDE	1390 g ae/ha B		100	-
	ENLIST DUO	1640 g ae/ha B			
	AMMONIUM SULFATE	2.5 % v/v B			
4	RESICORE HERBICIDE	1390 g ae/ha B		100	-
	ENLIST DUO	2185 g ae/ha B			
	AMMONIUM SULFATE	2.5 % v/v B			
5	SureStart II	1170 g ae/ha A		100	-
	Liberty	595 g ae/ha C			
	N Pak AMS	2.5 % v/v C			
6	SureStart II	1170 g ae/ha A		100	-
	Liberty	595 g ae/ha C			
	Enlist One	560 g ae/ha C			
	N Pak AMS	2.5 % v/v C			
7	RESICORE HERBICIDE	1390 g ae/ha B		100	-
	Liberty	595 g ae/ha B			
	AMMONIUM SULFATE	2.5 % v/v B			
8	RESICORE HERBICIDE	1390 g ae/ha B		100	-
	Liberty	595 g ae/ha B			
	Enlist One	560 g ae/ha B			
	N Pak AMS	2.5 % v/v B			

LSD P=.05 . .  
 Standard Deviation 0.0 .  
 CV 0.0 .  
 Levene's F 0.00 .  
 Levene's Prob(F) . .  
 Skewness . .  
 Kurtosis . .

Replicate F 0.000  
 Replicate Prob(F) 1.0000  
 Treatment F 0.000  
 Treatment Prob(F) 1.0000

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Protocol ID: NA18P2E001      Investigator: Dr. Mark M. Loux  
Project ID:      Study Director:  
Sponsor Contact:

Pest Type

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

Pest Code

SETFA, Setaria faberi, Giant foxtail = US

AMBTR, Ambrosia trifida, Giant ragweed = US

CHEAL, Chenopodium album, common lambsquarters = US

ABUTH, Abutilon theophrasti, velvetleaf = US

Crop Code

ZEAMX, BCOR, Zea mays, Corn = US

Part Rated

PLANT = plant

Rating Type

PHYGEN = phytotoxicity - general / injury

PLOT = total plot

Plant-Eval Interval

37 DP-1 = 1 ZEAMX Apr-29-2018

30 DP-1 = 1 ZEAMX Apr-29-2018

43 DP-1 = 1 ZEAMX Apr-29-2018

57 DP-1 = 1 ZEAMX Apr-29-2018

74 DP-1 = 1 ZEAMX Apr-29-2018

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. % control or injury)

ET5 = Excluded treatment 5

AA = Automatic arcsine square root % transformation

ER1 = Excluded replicate 1

ET2 = Excluded treatment 2