

# The Ohio State University

## NoTill Corn Burndown and Residual Weed Control

Trial ID: 16OSUNTC      Location: Western Branch F-10 E      Trial Year: 2016  
 Protocol ID: 15NTC1      Investigator: Dr. Mark M. Loux  
 Project ID:      Study Director: Anthony Dobbels  
                  Sponsor Contact:

### General Trial Information

**Study Director:** Anthony Dobbels  
**Investigator:** Dr. Mark M. Loux

### 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** °: 39.85861      N  
**Longitude of LL Corner** °: 83.67054      W  
**Altitude of LL Corner, Unit:** 1084.00 FT

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

### Contacts

**Study Director:** Anthony Dobbels

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

### Crop Description

**Crop 1:** ZEAMX      Zea mays  
**Variety:** SCS1066AMX  
**Description:** Seed Consultants RR/LL 106 RM  
**Seed Size, Unit:** 2084      S/LB

**Planting Rate, Unit:** 32097      S/A  
**Depth, Unit:** 1.5      IN  
**Row Spacing, Unit:** 30      IN  
**Soil Temperature, Unit:** 52      F  
**Soil Moisture:** NORMAL      normal, adequate  
**Seed Bed:** MEDIUM      medium

**Planting Date:** 4-20-2016  
**Planting Method:** SEEDED seeded  
**Planting Equipment:** FPP      Finger Pickup Planter  
**Emergence Date:** 5-1-2016

### Pest Description

**Pest 1 Type:** W      **Code:** ERICA      Conyza canadensis  
**Common Name:** Canada horseweed

**Pest 2 Type:** W      **Code:** LAMPU      Lamium purpureum  
**Common Name:** Purple deadnettel

**Pest 3 Type:** W      **Code:** LAMAM      Lamium amplexicaule  
**Common Name:** Henbit

**Pest 4 Type:** W      **Code:** ERYRE      Erysimum repandum  
**Common Name:** Bushy wallflower

**Pest 5 Type:** W      **Code:** TAROF      Taraxacum officinale  
**Common Name:** Common dandelion

**Pest 6 Type:** W      **Code:** VERAR      Veronica arvensis  
**Common Name:** Corn speedwell

**Pest 7 Type:** W      **Code:** AMBTR      Ambrosia trifida  
**Common Name:** Giant ragweed

### Site and Design

**Treated Plot Width:** 6.67 FT  
**Treated Plot Length:** 30 FT  
**Treated Plot Area:** 200.1 FT2      **Treatments:** 10  
**Replications:** 3

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

**No. Previous Crop Year**  
 1. Soybean      2015

### Soil Description

**Description Name:** F-10 East  
**% OM:** 3      **Texture:** SICL silty clay loam  
**pH:** 6      **Soil Name:** Kokomo  
**CEC:** 19.5      **Fert. Level:** G good  
**Soil Drainage:** G good

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### Application Description

**A**  
**Application Date:** 4-14-2016  
**Appl. Start Time:** 9:45 AM  
**Appl. Stop Time:** 10:00 AM  
**Application Method:** SPRAY  
**Application Timing:** 14 EPP  
**Application Placement:** BROFOL  
**Applied By:** Ackley  
**Air Temperature, Unit:** 48 F  
**% Relative Humidity:** 53  
**Wind Velocity, Unit:** 7 MPH  
**Wind Direction:** NNE  
**Dew Presence (Y/N):** N no  
**Soil Temperature, Unit:** 40 F  
**Soil Moisture:** NORMAL  
**% Cloud Cover:** 3  
**Next Moisture Occurred On:** 4-21-2016  
**Time to Next Moisture, Unit:** 7 DAY

### Crop Stage At Each Application

**A**  
**Crop 1 Code, BBCH Scale:** ZEAMX BCOR

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### Pest Stage At Each Application

**A**

**Pest 1 Code, Type, Scale:** ERICA W  
**Stage Majority, Percent:** 19 100  
**Diameter, Unit:** 2 IN  
**Height, Unit:** 1 IN  
**Height Minimum, Maximum:** 0.5 1  
**Density, Unit:** 13.33 M2

**Pest 2 Code, Type, Scale:** LAMPU W  
**Stage Majority, Percent:** 69 100  
**Diameter, Unit:** 6 IN  
**Height, Unit:** 4 IN  
**Height Minimum, Maximum:** 4 6  
**Density, Unit:** 14.63 M2

**Pest 3 Code, Type, Scale:** LAMAM W  
**Stage Majority, Percent:** 69 100  
**Diameter, Unit:** 6 IN  
**Height, Unit:** 4 IN  
**Height Minimum, Maximum:** 4 6  
**Density, Unit:** 4 M2

**Pest 4 Code, Type, Scale:** ERYRE W  
**Stage Majority, Percent:** 51 90  
**Stage Minimum, Percent:** 50 10  
**Stage Maximum, Percent:** 51 90  
**Diameter, Unit:** 6 IN  
**Height, Unit:** 10 IN  
**Height Minimum, Maximum:** 8 12  
**Density, Unit:** 5 M2

**Pest 5 Code, Type, Scale:** TAROF W  
**Stage Majority, Percent:** 63 80  
**Stage Minimum, Percent:** 60 20  
**Stage Maximum, Percent:** 63 80  
**Diameter, Unit:** 6 IN  
**Height, Unit:** 1 IN  
**Height Minimum, Maximum:** 0.5 1  
**Density, Unit:** 0.33 M2

**Pest 6 Code, Type, Scale:** VERAR W  
**Stage Majority, Percent:** 69 100  
**Diameter, Unit:** 7 IN  
**Height, Unit:** 1 IN  
**Height Minimum, Maximum:** 0.5 1  
**Density, Unit:** 0.66 M2

**Pest 7 Code, Type, Scale:** AMBTR W  
**Stage Majority, Percent:** 10 90  
**Stage Minimum, Percent:** 10 90  
**Stage Maximum, Percent:** 11 10  
**Diameter, Unit:** 2 IN  
**Height, Unit:** 1 IN  
**Height Minimum, Maximum:** 0.5 1  
**Density, Unit:** 12 M2

### Application Equipment

**A**

**Appl. Equipment:** 6 FOOT BOOM  
**Equipment Type:** SPRBAC  
**Operation Pressure, Unit:** 46 PSI  
**Nozzle Type:** AI XR  
**Nozzle Size:** 110015  
**Nozzle Spacing, Unit:** 18 IN  
**Boom Length, Unit:** 10 FT  
**Boom Height, Unit:** 20 IN  
**Ground Speed, Unit:** 3 MPH  
**Carrier:** WATER  
**Spray Volume, Unit:** 15 GPA  
**Mix Size, Unit:** 1 Liters  
**Propellant:** CO2

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	LAMPU	LAMAM	ERYRE	ERICA	LAMPU			
Pest Scientific Name	Lamium purpure> Lamium alexis>		Erysimum	Conyza canadens>	Lamium purpure>			
Pest Name	Purple deadnet>		Henbit	Bushy wallflow>	Canada horsewe>	Purple deadnet>		
Rating Date	4-27-2016		4-27-2016	4-27-2016	4-27-2016	5-12-2016		
Rating Type	CONTRO		CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit	%		%	%	%	%		
Number of Subsamples	1		1	1	1	1		
Days After First/Last Applic.	13 13		13 13	13 13	13 13	28 28		
Trt-Eval Interval	13 DA-A		13 DA-A	13 DA-A	13 DA-A	28 DA-A		
Plant-Eval Interval	7 DP-1		7 DP-1	7 DP-1	7 DP-1	22 DP-1		
Days After Emergence	-4 DE-1		-4 DE-1	-4 DE-1	-4 DE-1	11 DE-1		
Number of Decimals	0		0	0	0	0		
Trt Treatment	Other Rate	Other Rate	Appl Unit Code	1*	2*	3*	4*	5*
1 Resicore	2.25 qt/a		A	40 a	24 ab	93 a	94 a	100 a
Roundup PowerMax	22 oz/a		A					
N PAK AMS	1.5 qt/a		A					
2 Resicore	3 qt/a		A	33 ab	25 ab	68 c	88 ab	100 a
Roundup PowerMax	22 oz/a		A					
N PAK AMS	1.5 qt/a		A					
3 Corvus	5.6 oz/a		A	33 ab	23 ab	77 bc	73 a-d	100 a
Roundup PowerMax	22 oz/a		A					
N PAK AMS	1.5 qt/a		A					
4 Balance Bean	2 oz/a		A	27 b	17 b	88 ab	51 e	98 a
Dual II Magnum	0.8 pt/a		A					
Roundup PowerMax	32 oz/a		A					
N PAK AMS	1.5 qt/a		A					
5 Balance Bean	3 oz/a		A	33 ab	23 ab	77 bc	56 de	99 a
Dual II Magnum	1.6 pt/a		A					
Roundup PowerMax	32 oz/a		A					
N PAK AMS	1.5 qt/a		A					
6 Zemax	1 qt/a		A	33 ab	30 a	83 ab	78 abc	99 a
Roundup PowerMax	32 oz/a		A					
N PAK AMS	1.5 qt/a		A					
7 Zemax	2 qt/a		A	33 ab	30 a	81 abc	60 de	100 a
Roundup PowerMax	32 oz/a		A					
N PAK AMS	1.5 qt/a		A					
8 Acuron Flexi	1.66 qt/a		A	33 ab	30 a	88 ab	68 b-e	100 a
Roundup PowerMax	32 oz/a		A					
N PAK AMS	1.5 qt/a		A					
9 Acuron Flexi	2.25 qt/a		A	37 ab	23 ab	77 bc	61 cde	100 a
Roundup PowerMax	32 oz/a		A					
N PAK AMS	1.5 qt/a		A					
10 UTC				0 c	0 c	0 d	0 f	0 b
LSD P=.05				11.8	9.6	12.3	17.9	2.1
Standard Deviation				6.9	5.5	7.1	10.1	1.2
CV				22.61	27.6	10.5	20.46	1.39
Bartlett's X2				2.598	1.525	3.407	0.925	6.246
P(Bartlett's X2)				0.957	0.91	0.906	0.988	0.182
Skewness				-1.4197*	-1.2027*	-2.1265*	-1.051*	-2.8017*
Kurtosis				2.0725*	0.4329	3.8893*	0.9567	6.2811*
Replicate F				0.921	1.796	0.211	1.018	0.666
Replicate Prob(F)				0.4160	0.1998	0.8116	0.3907	0.5260
Treatment F				7.945	7.656	41.910	18.607	1915.229
Treatment Prob(F)				0.0001	0.0003	0.0001	0.0001	0.0001

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)  
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.  
 Due to missing data, larger LSD values (col. 2: >=9.6 and <=10.9) are used for mean comparisons of treatment pairs with missing data.  
 \* Adjusted means  
 Could not calculate LSD (% mean diff) for columns 6,7,10,11,12,13,14,16,17,18 because error mean square = 0.

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	LAMAM	ERYRE	ERICA	VERAG	TAROF
Pest Scientific Name	Lamium amplexi> Erysimum repa> Conyza canadens> Veronica agres> Taraxacum offi>				
Pest Name	Henbit	Bushy wallflow>	Canada horsewe>	Field speedwell	Common dandel>
Rating Date	5-12-2016	5-12-2016	5-12-2016	5-12-2016	5-12-2016
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	28 28	28 28	28 28	28 28	28 28
Trt-Eval Interval	28 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A
Plant-Eval Interval	22 DP-1	22 DP-1	22 DP-1	22 DP-1	22 DP-1
Days After Emergence	11 DE-1	11 DE-1	11 DE-1	11 DE-1	11 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	6*	7*	8*	9*	10*
1	Resicore	2.25 qt/a		A	100 a	100 a	100 a	100 a	100 a
	Roundup PowerMax	22 oz/a		A					
	N PAK AMS	1.5 qt/a		A					
2	Resicore	3 qt/a		A	100 a	100 a	100 a	100 a	100 a
	Roundup PowerMax	22 oz/a		A					
	N PAK AMS	1.5 qt/a		A					
3	Corvus	5.6 oz/a		A	100 a	100 a	99 ab	100 a	100 a
	Roundup PowerMax	22 oz/a		A					
	N PAK AMS	1.5 qt/a		A					
4	Balance Bean	2 oz/a		A	100 a	100 a	93 b	100 ab	100 a
	Dual II Magnum	0.8 pt/a		A					
	Roundup PowerMax	32 oz/a		A					
	N PAK AMS	1.5 qt/a		A					
5	Balance Bean	3 oz/a		A	100 a	100 a	97 ab	99 b	100 a
	Dual II Magnum	1.6 pt/a		A					
	Roundup PowerMax	32 oz/a		A					
	N PAK AMS	1.5 qt/a		A					
6	Zemax	1 qt/a		A	100 a	100 a	100 ab	100 a	100 a
	Roundup PowerMax	32 oz/a		A					
	N PAK AMS	1.5 qt/a		A					
7	Zemax	2 qt/a		A	100 a	100 a	100 a	99 ab	100 a
	Roundup PowerMax	32 oz/a		A					
	N PAK AMS	1.5 qt/a		A					
8	Acuron Flexi	1.66 qt/a		A	100 a	100 a	100 a	100 ab	100 a
	Roundup PowerMax	32 oz/a		A					
	N PAK AMS	1.5 qt/a		A					
9	Acuron Flexi	2.25 qt/a		A	100 a	100 a	100 a	100 a	100 a
	Roundup PowerMax	32 oz/a		A					
	N PAK AMS	1.5 qt/a		A					
10	UTC				0 b	0 b	0 c	0 c	0 b
LSD P=.05					.	.	6.6	0.8	.
Standard Deviation					0.0	0.0	3.9	0.4	0.0
CV					0.0	0.0	4.35	0.49	0.0
Bartlett's X2					0.0	0.0	12.421	0.985	0.0
P(Bartlett's X2)					.	.	0.006*	0.805	.
Skewness					-2.8091*	-2.8091*	-2.7272*	-2.8077*	-2.8091*
Kurtosis					6.3081*	6.3081*	5.9805*	6.3031*	6.3081*
Replicate F					0.000	0.000	2.353	1.189	0.000
Replicate Prob(F)					1.0000	1.0000	0.1237	0.3274	1.0000
Treatment F					0.000	0.000	196.276	15205.681	0.000
Treatment Prob(F)					1.0000	1.0000	0.0001	0.0001	1.0000

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	SENGL	LAMPU	LAMAM	ERYRE	ERICA			
Pest Scientific Name	Senecio glabel> Lamium purpure> Lamium amplexi> Erysimum repans> Conyza canadens>							
Pest Name	Cressleaf grou>	Purple deadnet>	Henbit	Bushy wallflow>	Canada horsewe>			
Rating Date	5-12-2016	5-26-2016	5-26-2016	5-26-2016	5-26-2016			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1			
Days After First/Last Applic.	28 28	42 42	42 42	42 42	42 42			
Trt-Eval Interval	28 DA-A	42 DA-A	42 DA-A	42 DA-A	42 DA-A			
Plant-Eval Interval	22 DP-1	36 DP-1	36 DP-1	36 DP-1	36 DP-1			
Days After Emergence	11 DE-1	25 DE-1	25 DE-1	25 DE-1	25 DE-1			
Number of Decimals	0	0	0	0	0			
Trt Treatment	Other Rate	Other Rate	Appl Unit Code	11*	12*	13*	14*	15*
1 Resicore	2.25 qt/a		A	100 a	100 a	100 a	100 a	100 a
Roundup PowerMax	22 oz/a		A					
N PAK AMS	1.5 qt/a		A					
2 Resicore	3 qt/a		A	100 a	100 a	100 a	100 a	100 a
Roundup PowerMax	22 oz/a		A					
N PAK AMS	1.5 qt/a		A					
3 Corvus	5.6 oz/a		A	100 a	100 a	100 a	100 a	99 a
Roundup PowerMax	22 oz/a		A					
N PAK AMS	1.5 qt/a		A					
4 Balance Bean	2 oz/a		A	100 a	100 a	100 a	100 a	90 b
Dual II Magnum	0.8 pt/a		A					
Roundup PowerMax	32 oz/a		A					
N PAK AMS	1.5 qt/a		A					
5 Balance Bean	3 oz/a		A	100 a	100 a	100 a	100 a	99 a
Dual II Magnum	1.6 pt/a		A					
Roundup PowerMax	32 oz/a		A					
N PAK AMS	1.5 qt/a		A					
6 Zemax	1 qt/a		A	100 a	100 a	100 a	100 a	100 a
Roundup PowerMax	32 oz/a		A					
N PAK AMS	1.5 qt/a		A					
7 Zemax	2 qt/a		A	100 a	100 a	100 a	100 a	98 ab
Roundup PowerMax	32 oz/a		A					
N PAK AMS	1.5 qt/a		A					
8 Acuron Flexi	1.66 qt/a		A	100 a	100 a	100 a	100 a	99 a
Roundup PowerMax	32 oz/a		A					
N PAK AMS	1.5 qt/a		A					
9 Acuron Flexi	2.25 qt/a		A	100 a	100 a	100 a	100 a	100 a
Roundup PowerMax	32 oz/a		A					
N PAK AMS	1.5 qt/a		A					
10 UTC				0 b	0 b	0 b	0 b	0 c
LSD P=.05				.	.	.	.	9.1
Standard Deviation				0.0	0.0	0.0	0.0	5.3
CV				0.0	0.0	0.0	0.0	6.0
Bartlett's X2				0.0	0.0	0.0	0.0	19.681
P(Bartlett's X2)				.	.	.	.	0.001*
Skewness				-2.8091*	-2.8091*	-2.8091*	-2.8091*	-2.6727*
Kurtosis				6.3081*	6.3081*	6.3081*	6.3081*	5.7163*
Replicate F				0.000	0.000	0.000	0.000	1.538
Replicate Prob(F)				1.0000	1.0000	1.0000	1.0000	0.2417
Treatment F				0.000	0.000	0.000	0.000	104.087
Treatment Prob(F)				1.0000	1.0000	1.0000	1.0000	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	VERAG	TAROF	SENGL	SETFA	AMBTR				
Pest Scientific Name	Veronica agres>	Taraxacum offi>	Senecio glabel>	Setaria Ambrosia trifi>	faberi				
Pest Name	Field speedwell	Common dandel>	Cressleaf grou>	Giant foxtail	Giant ragweed				
Rating Date	5-26-2016	5-26-2016	5-26-2016	5-26-2016	5-26-2016				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1				
Days After First/Last Applic.	42 42	42 42	42 42	42 42	42 42				
Trt-Eval Interval	42 DA-A	42 DA-A	42 DA-A	42 DA-A	42 DA-A				
Plant-Eval Interval	36 DP-1	36 DP-1	36 DP-1	36 DP-1	36 DP-1				
Days After Emergence	25 DE-1	25 DE-1	25 DE-1	25 DE-1	25 DE-1				
Number of Decimals	0	0	0	0	0				
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	16*	17*	18*	19*	20*
1	Resicore	2.25 qt/a		A	100 a	100 a	100 a	72 abc	75 ab
	Roundup PowerMax	22 oz/a		A					
	N PAK AMS	1.5 qt/a		A					
2	Resicore	3 qt/a		A	100 a	100 a	100 a	75 a	78 a
	Roundup PowerMax	22 oz/a		A					
	N PAK AMS	1.5 qt/a		A					
3	Corvus	5.6 oz/a		A	100 a	100 a	100 a	68 abc	72 ab
	Roundup PowerMax	22 oz/a		A					
	N PAK AMS	1.5 qt/a		A					
4	Balance Bean	2 oz/a		A	100 a	100 a	100 a	68 abc	72 ab
	Dual II Magnum	0.8 pt/a		A					
	Roundup PowerMax	32 oz/a		A					
	N PAK AMS	1.5 qt/a		A					
5	Balance Bean	3 oz/a		A	100 a	100 a	100 a	70 abc	73 ab
	Dual II Magnum	1.6 pt/a		A					
	Roundup PowerMax	32 oz/a		A					
	N PAK AMS	1.5 qt/a		A					
6	Zemax	1 qt/a		A	100 a	100 a	100 a	63 c	68 ab
	Roundup PowerMax	32 oz/a		A					
	N PAK AMS	1.5 qt/a		A					
7	Zemax	2 qt/a		A	100 a	100 a	100 a	72 abc	67 b
	Roundup PowerMax	32 oz/a		A					
	N PAK AMS	1.5 qt/a		A					
8	Acuron Flexi	1.66 qt/a		A	100 a	100 a	100 a	65 bc	72 ab
	Roundup PowerMax	32 oz/a		A					
	N PAK AMS	1.5 qt/a		A					
9	Acuron Flexi	2.25 qt/a		A	100 a	100 a	100 a	73 ab	79 a
	Roundup PowerMax	32 oz/a		A					
	N PAK AMS	1.5 qt/a		A					
10	UTC				0 b	0 b	0 b	0 d	0 c
LSD P=.05					.	.	.	9.9	11.6
Standard Deviation					0.0	0.0	0.0	5.8	6.8
CV					0.0	0.0	0.0	9.24	10.3
Bartlett's X2					0.0	0.0	0.0	6.152	11.025
P(Bartlett's X2)					.	.	.	0.522	0.20
Skewness					-2.8091*	-2.8091*	-2.8091*	-2.4365*	-2.2694*
Kurtosis					6.3081*	6.3081*	6.3081*	5.077*	4.7054*
Replicate F					0.000	0.000	0.000	0.696	3.479
Replicate Prob(F)					1.0000	1.0000	1.0000	0.5114	0.0528
Treatment F					0.000	0.000	0.000	44.541	35.933
Treatment Prob(F)					1.0000	1.0000	1.0000	0.0001	0.0001

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Sponsor Contact:

Pest Type

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

Pest Code

LAMPU, Lamium purpureum, = US  
LAMAM, Lamium amplexicaule, = US  
ERYRE, Erysimum repandum, = US  
ERICA, Conyza canadensis, = ERICA, Conyza canadensis,  
VERAG, Veronica agrestis, = US  
TAROF, Taraxacum officinale, = US  
SENGL, Senecio glabellus, = US  
SETFA, Setaria faberi, = US  
AMBTR, Ambrosia trifida, = US

Rating Type

CONTRO = control / burndown or knockdown

Rating Unit

% = percent

Plant-Eval Interval

7 DP-1 = 1 ZEAMX 4-20-2016  
22 DP-1 = 1 ZEAMX 4-20-2016  
36 DP-1 = 1 ZEAMX 4-20-2016