

Purdue Weed Science

Dicamba Crop Safety

Trial ID: 16S-TPAC-CORN-17 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-CORN-17 Investigator: Dr. Bill Johnson
 Project ID: MKD H 2016 US C44 Study Director: Joe Ikley
 Sponsor Contact: BASF - Gery Welker

General Trial Information

Study Director: Joe Ikley **Title:** Research Associate
Investigator: Dr. Bill Johnson **Title:** Professor

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: Joe Ikley **Title:** Research Associate
Organization: Purdue University
Address: 915 West State Street **Phone No.:** 765-494-0891
City+State/Prov: West Lafayette **Mobile No.:** 410-596-9091
Postal Code: 47907 **E-mail:** jikley@purdue.edu

Investigator: Dr. Bill Johnson **Title:** Professor
Organization: Purdue University
Address: 915 West State Street **Phone No.:** 765-494-4656
City+State/Prov: West Lafayette **Mobile No.:** 765-404-9801
Postal Code: 47907 **E-mail:** wgj@purdue.edu

Cooperator/Landowner

Cooperator: Jay Young **Role:** Superintendent
Organization: Purdue University
Address 1: 8343 US 231 S
City: Lafayette **Phone No.:** 765-538-3422
State/Prov: IN **Fax No.:** 765-538-3423
Postal Code: 47909
Country: USA United States **E-mail:** jayyoung@purdue.edu

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC 62-08

Planting Rate, Unit: 32000 S/A **Planting Date:** Apr-26-2016
Depth, Unit: 1.75 IN **Planting Method:** PLANTD planted
Row Spacing, Unit: 30 IN **Planting Equipment:** FPP Finger Pickup Planter
Emergence Date: May-10-2016
Soil Temperature, Unit: 74 F **Harvested Width, Unit:** 5 FT
Soil Moisture: SLIDRY slightly dry **Harvested Length, Unit:** 25 FT
% Standard Moisture: 15.5

Site and Design

Treated Plot Width: 10 FT **Site Type:** FIELD field
Treated Plot Length: 30 FT **Experimental Unit:** 1 PLOT plot
Treated Plot Area: 300 FT² **Treatments:** 7 **Tillage Type:** CONTIL conventional-till
Replications: 4 **Study Design:** RACOB� Randomized Complete Block (RCB)

Maintenance

No.	Date	Maintenance Product Name	Rate	Rate Unit
1.	Apr-26-2016	VERDICT	16	FL OZ/A

Field Prep./Maintenance:
 171 lbs of N applied as UAN on 4/19/16

Push Bar Test Conducted on 6/8/16

Soil Description

Description Name: TPAC -Field 4A
% OM: 3.1 **Texture:** SIL silt loam
pH: 6 **Soil Name:** Toronto-Millbrook
CEC: 11.1

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Application Description

	A
Application Date:	Jun-6-2016
Appl. Start Time:	9:15 AM
Appl. Stop Time:	9:30 AM
Application Method:	SPRAY
Application Timing:	V6
Application Placement:	BROADC
Applied By:	Jl
Air Temperature, Unit:	68 F
% Relative Humidity:	70
Wind Velocity, Unit:	7 MPH
Wind Direction:	WSW
Dew Presence (Y/N):	N no
Soil Temperature, Unit:	66 F
Soil Moisture:	WET
% Cloud Cover:	50

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	ZEAMX BCOR
Stage Scale Used:	BBCH
Stage Majority, Percent:	36
Stage Minimum, Percent:	35
Stage Maximum, Percent:	36
Height, Unit:	10.5 IN
Height Minimum, Maximum:	9 12

Application Equipment

	A
Appl. Equipment:	CO2 BACKPACK
Equipment Type:	BACSPR
Operation Pressure, Unit:	18 PSI
Nozzle Type:	FLAT FAN
Nozzle Size:	XR 11002
Nozzle Spacing, Unit:	15 IN
Nozzles/Row:	8
Boom Length, Unit:	10 FT
Boom Height, Unit:	17 IN
Ground Speed, Unit:	3 MPH
Carrier:	MEIGS
Spray Volume, Unit:	15 gal/ac
Mix Size, Unit:	1.8 liters
Propellant:	CO2

Trial Comments

Reps: 4 Plots: 10 by 30 feet
 Spray vol: 15 GAL/AC Mix Size: 1.8 liters (1.5642 liters calculated mix size)

Trt No.	Treatment Name	Form Conc	Form Unit	Rate Type	Rate Unit	Appl Code	Amt Product to Measure	Rep 1	Rep 2	Rep 3	Rep 4
1	Untreated Check							101	207	301	404

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Reps: 4 Plots: 10 by 30 feet
 Spray vol: 15 GAL/AC Mix Size: 1.8 liters (1.5642 liters calculated mix size)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Appl Code	Amt to Measure	Product	Rep 1	Rep 2	Rep 3	Rep 4
2	ARMEZON	2.8 LB/GAL	L	L	0.75 fl oz/a	A	0.7031 ml/mx	102	203	306	405	
	MSO ULTRA	100 %	L	L	1 % v/v	A	18.0 ml/mx					
	N-PAK - AMS	3.4 LBA/GAL	L	L	2.5 % v/v	A	45.0 ml/mx					
3	STATUS	61.1 %	WG	L	5 oz/a	A	4.493 g/mx	103	204	302	401	
	ACTIVATOR 90 - NIS	90 %	L	L	0.25 % v/v	A	4.5 ml/mx					
	N-PAK - AMS	3.4 LBA/GAL	L	L	2.5 % v/v	A	45.0 ml/mx					
4	ARMEZON	2.8 LB/GAL	L	L	0.75 fl oz/a	A	0.7031 ml/mx	104	202	304	403	
	STATUS	61.1 %	WG	L	3.75 oz/a	A	3.37 g/mx					
	PRIME OIL - COC	98.47 %	L	L	1 % v/v	A	18.0 ml/mx					
	N-PAK - AMS	3.4 LBA/GAL	L	L	2.5 % v/v	A	45.0 ml/mx					
5	DIFLEXX	4 LBAE/GAL	SC	L	8 fl oz/a	A	7.5 ml/mx	105	201	303	407	
	PRIME OIL - COC	98.47 %	L	L	1 % v/v	A	18.0 ml/mx					
	N-PAK - AMS	3.4 LBA/GAL	L	L	2.5 % v/v	A	45.0 ml/mx					
6	DIFLEXX	4 LBAE/GAL	SC	L	12 fl oz/a	A	11.25 ml/mx	106	205	307	406	
	PRIME OIL - COC	98.47 %	L	L	1 % v/v	A	18.0 ml/mx					
	N-PAK - AMS	3.4 LBA/GAL	L	L	2.5 % v/v	A	45.0 ml/mx					
7	DIFLEXX	4 LBAE/GAL	SC	L	16 fl oz/a	A	15.0 ml/mx	107	206	305	402	
	PRIME OIL - COC	98.47 %	L	L	1 % v/v	A	18.0 ml/mx					
	N-PAK - AMS	3.4 LBA/GAL	L	L	2.5 % v/v	A	45.0 ml/mx					

Sort Order: Replicate 1

Product quantities required for listed treatments and applications of trials included in this table:

Amount*	Unit	Treatment Name	Form Conc	Form Unit	Form Type	Lot Code
1.758	ml	ARMEZON	2.8	LB/GAL	L	
22.498	ml	MSO ULTRA	100	%	L	
337.463	ml	N-PAK - AMS	3.4	LBA/GAL	L	
9.830	g	STATUS	61.1	%	WG	
5.624	ml	ACTIVATOR 90 - NIS	90	%	L	
89.990	ml	PRIME OIL - COC	98.47	%	L	
42.187	ml	DIFLEXX	4	LBAE/GAL	SC	

* 'Per area' calculations based on spray volume= 15 GAL/AC, mix size= 1.8 liters (mix size basis).

* Product amount calculations increased 25 % for overage adjustment.

* 'Per volume' calculations use spray volume= 15 GAL/AC, mix size= 1.8 liters.

Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX				
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn	Corn				
Part Rated	PLOT C	PLOT C	PLOT C	PLOT C	PLOT C	PLOT C	PLOT C				
Rating Date	Jun-8-2016	Jun-15-2016	Jun-21-2016	Jun-30-2016	Jul-19-2016	Jul-19-2016	Oct-7-2016				
Rating Type	BROKEN	PHYLMA	PHYLMA	PHYLMA	PHYLMA	PHYDEF	YIELD				
Rating Unit	%	%	%	%	%	%	lb/plot				
Number of Subsamples	1	1	1	1	1	1	1				
Days After First/Last Applic.	2 2	9 9	15 15	24 24	43 43	43 43	123 123				
Trt-Eval Interval	2 DA-A	9 DA-A	15 DA-A	24 DA-A	43 DA-A	43 DA-A	164 DA-A				
Days After Emergence	29 DE-1	36 DE-1	42 DE-1	51 DE-1	70 DE-1	70 DE-1	150 DE-1				
ARM Action Codes	P	P	P	P	P	P					
Number of Decimals	1	0	0	0	0	0	2				
Trt No.	Treatment Name	Rate	Appl Code	Plot	1	2	3	4	5	6	7
1	Untreated Check	101			6.7	0	0	0	0	0	42.91
		207			7.8	0	0	0	0	0	38.45
		301			7.8	0	5	0	0	0	39.63
		404			5.6	0	0	0	0	0	39.20
		Mean =			7.0	0	1	0	0	0	40.05

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Crop Code	ZEAMX		ZEAMX		ZEAMX		ZEAMX		ZEAMX		ZEAMX	
Crop Name	Corn		Corn		Corn		Corn		Corn		Corn	
Part Rated	PLOT C		PLOT C		PLOT C		PLOT C		PLOT C		PLOT C	
Rating Date	Jun-8-2016		Jun-15-2016		Jun-21-2016		Jun-30-2016		Jul-19-2016		Oct-7-2016	
Rating Type	BROKEN		PHYLMA		PHYLMA		PHYLMA		PHYLMA		PHYDEF	
Rating Unit	%		%		%		%		%		%	
Number of Subsamples	1		1		1		1		1		1	
Days After First/Last Applic.	2 2		9 9		15 15		24 24		43 43		43 43	
Trt-Eval Interval	2 DA-A		9 DA-A		15 DA-A		24 DA-A		43 DA-A		43 DA-A	
Days After Emergence	29 DE-1		36 DE-1		42 DE-1		51 DE-1		70 DE-1		70 DE-1	
ARM Action Codes	P		P		P		P		P		P	
Number of Decimals	1		0		0		0		0		0	
Trt Treatment	Rate	Appl	Code Plot		Code Plot		Code Plot		Code Plot		Code Plot	
No. Name	Rate Unit	Code	1	2	3	4	5	6	7			
2 ARMEZON	0.75 fl oz/a	A	102	6.7	0	0	0	0	0	0	44.63	
MISO ULTRA	1 % v/v	A	203	8.9	0	0	0	0	0	0	40.92	
N-PAK - AMS	2.5 % v/v	A	306	14.4	0	0	0	0	0	0	41.14	
			405	15.6	0	5	0	0	0	0	36.94	
			Mean =	11.4	0	1	0	0	0	0	40.91	
3 STATUS	5 oz/a	A	103	16.7	0	0	0	0	0	0	40.98	
ACTIVATOR 90 - NIS	0.25 % v/v	A	204	33.3	0	0	0	0	0	0	29.90	
N-PAK - AMS	2.5 % v/v	A	302	24.4	5	0	0	0	0	0	34.96	
			401	20.0	0	0	0	0	0	0	37.64	
			Mean =	23.6	1	0	0	0	0	0	35.87	
4 ARMEZON	0.75 fl oz/a	A	104	23.3	0	0	0	0	0	0	39.90	
STATUS	3.75 oz/a	A	202	23.3	5	10	5	0	0	0	33.83	
PRIME OIL - COC	1 % v/v	A	304	43.3	5	5	5	0	0	0	30.71	
N-PAK - AMS	2.5 % v/v	A	403	8.9	0	5	0	0	0	0	41.19	
			Mean =	24.7	3	5	3	0	0	0	36.41	
5 DIFLEXX	8 fl oz/a	A	105	50.0	5	0	0	0	0	0	30.17	
PRIME OIL - COC	1 % v/v	A	201	14.4	0	0	0	0	0	0	36.89	
N-PAK - AMS	2.5 % v/v	A	303	25.6	0	0	0	0	0	0	38.02	
			407	23.3	0	0	0	0	0	0	34.20	
			Mean =	28.3	1	0	0	0	0	0	34.82	
6 DIFLEXX	12 fl oz/a	A	106	45.6	0	5	5	0	0	0	33.18	
PRIME OIL - COC	1 % v/v	A	205	58.9	10	5	5	0	0	0	20.12	
N-PAK - AMS	2.5 % v/v	A	307	36.7	0	5	5	0	0	0	30.82	
			406	25.6	5	0	0	0	0	0	31.30	
			Mean =	41.7	4	4	4	0	0	0	28.85	
7 DIFLEXX	16 fl oz/a	A	107	46.7	5	10	10	0	2	2	26.89	
PRIME OIL - COC	1 % v/v	A	206	43.3	5	10	5	0	0	0	27.16	
N-PAK - AMS	2.5 % v/v	A	305	70.0	10	20	10	0	5	5	18.13	
			402	44.4	0	5	5	0	0	0	28.99	
			Mean =	51.1	5	11	8	0	2	2	25.29	

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Crop Code				ZEAMX	ZEAMX
Crop Name				Corn	Corn
Part Rated				PLOT C	PLOT C
Rating Date				Oct-7-2016	Oct-7-2016
Rating Type				MOICON	YIELD
Rating Unit				%	BU
Number of Subsamples				1	1
Days After First/Last Applic.				123 123	123 123
Trt-Eval Interval				164 DA-A	164 DA-A
Days After Emergence				150 DE-1	150 DE-1
ARM Action Codes					TY1
Number of Decimals				1	1
Trt Treatment		Rate	Appl		
No. Name		Rate Unit	Code Plot	8	9
1 Untreated Check				18.0	259.0
				17.5	233.7
				18.3	238.5
				19.0	233.8
			Mean =	18.2	241.3

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				ZEAMX	ZEAMX
				Corn	Corn
				PLOT C	PLOT C
				Oct-7-2016	Oct-7-2016
				MOICON	YIELD
				%	BU
Number of Subsamples				1	1
Days After First/Last Applic.				123 123	123 123
Trt-Eval Interval				164 DA-A	164 DA-A
Days After Emergence				150 DE-1	150 DE-1
ARM Action Codes					TY1
Number of Decimals				1	1
Trt	Treatment	Rate	Appl		
No.	Name	Rate Unit	Code Plot	8	9
2	ARMEZON	0.75 fl oz/a A	102	17.9	269.7
	MISO ULTRA	1 % v/v A	203	18.3	246.2
	N-PAK - AMS	2.5 % v/v A	306	17.6	249.6
			405	18.9	220.7
			Mean =	18.2	246.5
3	STATUS	5 oz/a A	103	17.5	249.0
	ACTIVATOR 90 - NIS	0.25 % v/v A	204	17.8	181.1
	N-PAK - AMS	2.5 % v/v A	302	17.9	211.3
			401	18.5	225.8
			Mean =	17.9	216.8
4	ARMEZON	0.75 fl oz/a A	104	18.1	240.8
	STATUS	3.75 oz/a A	202	18.3	203.5
	PRIME OIL - COC	1 % v/v A	304	18.2	185.0
	N-PAK - AMS	2.5 % v/v A	403	18.9	246.1
			Mean =	18.4	218.8
5	DIFLEXX	8 fl oz/a A	105	17.6	183.1
	PRIME OIL - COC	1 % v/v A	201	18.3	222.1
	N-PAK - AMS	2.5 % v/v A	303	17.6	230.8
			407	18.4	205.5
			Mean =	18.0	210.4
6	DIFLEXX	12 fl oz/a A	106	17.4	201.9
	PRIME OIL - COC	1 % v/v A	205	18.0	121.5
	N-PAK - AMS	2.5 % v/v A	307	17.4	187.6
			406	18.1	188.7
			Mean =	17.7	174.9
7	DIFLEXX	16 fl oz/a A	107	17.4	163.5
	PRIME OIL - COC	1 % v/v A	206	17.3	165.4
	N-PAK - AMS	2.5 % v/v A	305	17.5	110.1
			402	18.8	173.3
			Mean =	17.8	153.1

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Crop Code
 ZEAMX, BCOR, Zea mays, = US
Part Rated
 PLOT = plot
 C = Crop is Part Rated
Rating Type
 BROKEN = broken
 PHYLMA = phytotoxicity - leaf malformation
 PHYDEF = phyto. deformation (cupping, epinasty, leaf wrap, wrinkling)
 YIELD = yield
 MOICON = moisture content
Rating Unit
 % = percent
 lb/plot = pounds per plot
 BU = bushel
ARM Action Codes
 P = Rating scale of 0 to 100 (e.g. % control or injury)
 TY1 = $6.222857 * [7] * (100 - [8]) / 84.5$

Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX		
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn	Corn		
Part Rated	PLOT C	PLOT C	PLOT C	PLOT C	PLOT C	PLOT C	PLOT C		
Rating Date	Jun-8-2016	Jun-15-2016	Jun-21-2016	Jun-30-2016	Jul-19-2016	Jul-19-2016	Oct-7-2016		
Rating Type	BROKEN	PHYLMA	PHYLMA	PHYLMA	PHYLMA	PHYDEF	YIELD		
Rating Unit	%	%	%	%	%	%	lb/plot		
Number of Subsamples	1	1	1	1	1	1	1		
Days After First/Last Applic.	2 2	9 9	15 15	24 24	43 43	43 43	123 123		
Trt-Eval Interval	2 DA-A	9 DA-A	15 DA-A	24 DA-A	43 DA-A	43 DA-A	164 DA-A		
Days After Emergence	29 DE-1	36 DE-1	42 DE-1	51 DE-1	70 DE-1	70 DE-1	150 DE-1		
ARM Action Codes	P	P	P	P	P	P			
Number of Decimals	1	0	0	0	0	0	2		
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code	1	2	3	4	5	6	7
1 Untreated Check			7.0 c	0 -	1 b	0 b	0 -	0 -	40.05 a
2 ARMEZON	0.75 fl oz/a A		11.4 c	0 -	1 b	0 b	0 -	0 -	40.91 a
MSO ULTRA	1 % v/v A								
N-PAK - AMS	2.5 % v/v A								
3 STATUS	5 oz/a A		23.6 bc	1 -	0 b	0 b	0 -	0 -	35.87 ab
ACTIVATOR 90 - NIS	0.25 % v/v A								
N-PAK - AMS	2.5 % v/v A								
4 ARMEZON	0.75 fl oz/a A		24.7 bc	3 -	5 b	3 b	0 -	0 -	36.41 ab
STATUS	3.75 oz/a A								
PRIME OIL - COC	1 % v/v A								
N-PAK - AMS	2.5 % v/v A								
5 DIFLEXX	8 fl oz/a A		28.3 bc	1 -	0 b	0 b	0 -	0 -	34.82 ab
PRIME OIL - COC	1 % v/v A								
N-PAK - AMS	2.5 % v/v A								
6 DIFLEXX	12 fl oz/a A		41.7 ab	4 -	4 b	4 b	0 -	0 -	28.85 bc
PRIME OIL - COC	1 % v/v A								
N-PAK - AMS	2.5 % v/v A								
7 DIFLEXX	16 fl oz/a A		51.1 a	5 -	11 a	8 a	0 -	2 -	25.29 c
PRIME OIL - COC	1 % v/v A								
N-PAK - AMS	2.5 % v/v A								
LSD P=.05			16.15	4.4	4.8	2.5	.	1.3	6.110
Standard Deviation			10.87	3.0	3.2	1.7	0.0	0.9	4.113
CV			40.52	150.42	99.93	86.35	0.0	357.24	11.89
Bartlett's X2			15.212	2.031	4.323	0.077	0.0	0.0	3.671
P(Bartlett's X2)			0.019*	0.73	0.364	0.962	.	.	0.721
Skewness			0.7091	1.3978*	1.921*	1.3978*	.	4.4108*	-0.7986
Kurtosis			-0.3093	0.9972	4.5518*	0.9972	.	20.1892*	0.353
Replicate F			1.298	0.920	1.269	1.966	0.000	1.000	1.758
Replicate Prob(F)			0.3055	0.4509	0.3148	0.1553	1.0000	0.4155	0.1912
Treatment F			8.236	1.636	6.231	11.483	0.000	2.194	7.651
Treatment Prob(F)			0.0002	0.1945	0.0011	0.0001	1.0000	0.0918	0.0003

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Rating Type			MOICON	YIELD
Rating Unit			%	BU
Number of Subsamples			1	1
Days After First/Last Applic.			123 123	123 123
Trt-Eval Interval			164 DA-A	164 DA-A
Days After Emergence			150 DE-1	150 DE-1
ARM Action Codes				TY1
Number of Decimals			1	1
Trt No.	Treatment Name	Rate	Appl Code	
		Rate Unit		
			8	9
1	Untreated Check		18.2 -	241.3 a
2	ARMEZON	0.75 fl oz/a A	18.2 -	246.5 a
	MSO ULTRA	1 % v/v A		
	N-PAK - AMS	2.5 % v/v A		
3	STATUS	5 oz/a A	17.9 -	216.8 ab
	ACTIVATOR 90 - NIS	0.25 % v/v A		
	N-PAK - AMS	2.5 % v/v A		
4	ARMEZON	0.75 fl oz/a A	18.4 -	218.8 ab
	STATUS	3.75 oz/a A		
	PRIME OIL - COC	1 % v/v A		
	N-PAK - AMS	2.5 % v/v A		
5	DIFLEXX	8 fl oz/a A	18.0 -	210.4 ab
	PRIME OIL - COC	1 % v/v A		
	N-PAK - AMS	2.5 % v/v A		
6	DIFLEXX	12 fl oz/a A	17.7 -	174.9 bc
	PRIME OIL - COC	1 % v/v A		
	N-PAK - AMS	2.5 % v/v A		
7	DIFLEXX	16 fl oz/a A	17.8 -	153.1 c
	PRIME OIL - COC	1 % v/v A		
	N-PAK - AMS	2.5 % v/v A		
LSD P=.05			0.43	37.17
Standard Deviation			0.29	25.02
CV			1.62	11.98
Bartlett's X2			1.904	3.506
P(Bartlett's X2)			0.928	0.743
Skewness			0.3825	-0.7924
Kurtosis			-0.8486	0.3862
Replicate F			16.255	1.698
Replicate Prob(F)			0.0001	0.2031
Treatment F			2.748	7.346
Treatment Prob(F)			0.0448	0.0004

Purdue Weed Science

Dicamba Crop Safety

Trial ID: 16S-TPAC-CORN-17 Location: TPAC Trial Year: 2016
Protocol ID: 16S-TPAC-CORN-17 Investigator: Dr. Bill Johnson
Project ID: MKD H 2016 US C44 Study Director: Joe Ikley
Sponsor Contact: BASF - Gery Welker

Crop Code

ZEAMX, BCOR, Zea mays, = US

Part Rated

PLOT = plot

C = Crop is Part Rated

Rating Type

BROKEN = broken

PHYLMA = phytotoxicity - leaf malformation

PHYDEF = phyto. deformation (cupping, epinasty, leaf wrap, wrinkling)

YIELD = yield

MOICON = moisture content

Rating Unit

% = percent

lb/plot = pounds per plot

BU = bushel

ARM Action Codes

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

TY1 = $6.222857 \cdot [7] \cdot (100 - [8]) / 84.5$