

The Ohio State University

Spring Barley Weed Management Trial

Trial ID: 16MALT1 Location: Trial Year: 2016
 Protocol ID: 16MALT1 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

Initiation Date: 3-22-2016

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 °: 39.85592 N
Longitude of LL Corner °: 83.67068 W
Altitude of LL Corner, Unit: 1089.00 FT

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: Anthony Dobbels

Investigator: Dr. Mark M. Loux

Crop Description

Crop 1: HORVS Hordeum vulgare (spring) Spring barley
Variety: Quest **BBCH Scale:** BCER
Description: 2 Row Spring Malting Barley

Planting Rate, Unit: 100 LB/A
Depth, Unit: 2 IN
Row Spacing, Unit: 7.5 IN

Soil Temperature, Unit: 47 F
Soil Moisture: NORMAL normal, adequate
Seed Bed: MEDIUM medium

Planting Date: 3-22-2016
Planting Method: DRILLE drilled
Planting Equipment: DD Disc Drill
Emergence Date: 4-5-2016
Harvest Date: 7-12-2016
Harvested Width, Unit: 6.25 FT
Harvested Length, Unit: 30 FT
Harvest Equipment: Massey Ferguson 8 XP
% Standard Moisture: 14.5
Moisture Meter: Harvest Master
Weighing Equipment: Harvest Master HM 800

Pest Description

Pest 1 Type: W **Code:** SETFA Setaria faberi
Common Name: Giant foxtail

Pest 2 Type: W **Code:** AMBTR Ambrosia trifida
Common Name: Giant ragweed

Pest 3 Type: W **Code:** ABUTH Abutilon theophrasti
Common Name: velvetleaf

Pest 4 Type: W **Code:** CHEAL Chenopodium album
Common Name: Common lambsquarters

Site and Design

Treated Plot Width: 10 FT
Treated Plot Length: 30 FT
Treated Plot Area: 300 FT² **Treatments:** 16
Replications: 3
Site Type: FIELD field
Experimental Unit: 1 PLOT plot
Tillage Type: MINTIL minimum-till
Study Design: RACOB� Randomized Complete Block (RCB)

No. Previous Crop Year
 1. Soybean 2015

Soil Description

Description Name: F-6
% OM: 2 **Texture:** SIC silty clay
pH: 6.2 **Soil Name:** Crosby
CEC: 14.5 **Fert. Level:** G good
Soil Drainage: G good

Additional Measured Elements

Date	Element	Quantity	Unit
3-21-2016	Urea	55	lb/a
5-16-2016	28% UAN	15	gal/a

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Application Description

	A	B
Application Date:	3-23-2016	5-19-2016
Appl. Start Time:	7:15 AM	9:30 AM
Appl. Stop Time:	7:30 AM	10:00 AM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	POEMSE
Application Placement:	BROSOI	FOLIAR
Applied By:	Reeb	Ackley
Air Temperature, Unit:	47 F	59 F
% Relative Humidity:	54	43
Wind Velocity, Unit:	5 MPH	7.5 MPH
Wind Direction:	S	ENE
Dew Presence (Y/N):	N no	N no
Soil Temperature, Unit:	42 F	52 F
Soil Moisture:	NORMAL	NORMAL
% Cloud Cover:	3	0
Next Moisture Occurred On:	3-24-2016	5-20-2016
Time to Next Moisture, Unit:	1 DAY	1 DAY

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	HORVS BCER	HORVS BCER

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	SETFA W	SETFA W
Stage Majority, Percent:		13 60
Stage Minimum, Percent:		12 40
Stage Maximum, Percent:		13 60
Height, Unit:		3 IN
Height Minimum, Maximum:		1 4
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:		16 100
Height, Unit:		9 IN
Height Minimum, Maximum:		3 10
Pest 3 Code, Type, Scale:	ABUTH W	ABUTH W
Stage Majority, Percent:		11 100
Height, Unit:		2 IN
Height Minimum, Maximum:		1 2
Pest 4 Code, Type, Scale:	CHEAL W	CHEAL W
Stage Majority, Percent:		16 60
Stage Minimum, Percent:		14 40
Stage Maximum, Percent:		16 60
Height, Unit:		2.5 IN
Height Minimum, Maximum:		2 3

Application Equipment

	A	B
Appl. Equipment:	10' AI XR	10' AI XR
Equipment Type:	SPRBAC	SPRBAC
Operation Pressure, Unit:	46 PSI	46 PSI
Nozzle Type:	AI XR	AI XR
Nozzle Size:	110015	110015
Nozzle Spacing, Unit:	18 IN	18 IN
Boom Length, Unit:	10 FT	10 FT
Boom Height, Unit:	20 IN	20 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	15 GPA	15 GPA
Mix Size, Unit:	3 GALLONS	2 Liters
Propellant:	CO2	CO2

Date	By	Notes
3-22-2016	Dobbels	Seed Treated with Cruiser Max

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed							
Pest Code	SETFA	AMBTR	CHEAL	ABUTH	SETFA							
Pest Name	Giant foxtail	Giant ragweed	Common lambsqu	velvetleaf	Giant foxtail							
Crop Code												
Crop Name												
Rating Date	5-16-2016	5-16-2016	5-16-2016	5-16-2016	6-1-2016							
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO							
Rating Unit	%	%	%	%	%							
Number of Subsamples	1	1	1	1	1							
Rating Timing	AT POST	AT POST	AT POST	AT POST								
Days After First/Last Applic.	54 54	54 54	54 54	54 54	70 13							
Trt-Eval Interval	54 DA-A	54 DA-A	54 DA-A	54 DA-A	13 DA-B							
Days After Emergence	41 DE-1	41 DE-1	41 DE-1	41 DE-1	57 DE-1							
ARM Action Codes												
Number of Decimals	0	0	0	0	0							
Trt No.	Treatment Name	Form Conc	Form Unit	Rate	Other Rate	Other Unit	Appl Unit Code	1*	2*	3*	4*	5*
1	Sharpen	2.85 LBA/GAL		0.0445 lb ai/a	2 oz/a		A	0 -	93 a	100 a	100 a	57 -
2	Sharpen	2.85 LBA/GAL		0.0445 lb ai/a	2 oz/a		A	0 -	93 a	98 a	100 a	57 -
	Axial Star	100 %		1.07 lb ai/a	16.4 oz/a		B					
3	Sharpen	2.85 LBA/GAL		0.0445 lb ai/a	2 oz/a		A	28 -	87 a	100 a	100 a	80 -
	Axial Star	100 %		1.07 lb ai/a	16.4 oz/a		B					
	MCPA	100 %		0.78 lb ai/a	0.75 pt/a		B					
4	Sharpen	2.85 LBA/GAL		0.0445 lb ai/a	2 oz/a		A	0 -	97 a	100 a	100 a	80 -
	Axial XL	100 %		1.07 lb ai/a	16.4 oz/a		B					
5	Sharpen	2.85 LBA/GAL		0.0445 lb ai/a	2 oz/a		A	0 -	87 a	100 a	100 a	73 -
	Axial XL	100 %		1.07 lb ai/a	16.4 oz/a		B					
	MCPA	100 %		0.78 lb ai/a	0.75 pt/a		B					
6	Axial Star	100 %		1.07 lb ai/a	16.4 oz/a		B	0 -	58 b	67 b	67 b	73 -
7	Axial Star	100 %		1.07 lb ai/a	16.4 oz/a		B	0 -	0 c	0 c	0 c	80 -
	MCPA	100 %		0.78 lb ai/a	0.75 pt/a		B					
8	Axial XL	100 %		1.07 lb ai/a	16.4 oz/a		B	0 -	0 c	0 c	0 c	57 -
9	MCPA	100 %		0.78 lb ai/a	0.75 pt/a		B	0 -	0 c	0 c	0 c	57 -
10	Huskie	100 %		0.85 lb ai/a	13 oz/a		B	0 -	0 c	0 c	0 c	63 -
	NIS	100 %		0.25 % v/v	0.25 % v/v		B					
	N PAK AMS	100 %		2.5 % v/v	2.5 % v/v		B					
11	Moxy	2 LBA/GAL		0.25 lb ai/a	1 pt/a		B	0 -	0 c	0 c	0 c	57 -
12	Axial XL	100 %		1.07 lb ai/a	16.4 oz/a		B	0 -	0 c	0 c	0 c	63 -
	MCPA	100 %		0.78 lb ai/a	0.75 pt/a		B					
13	Axial XL	100 %		1.07 lb ai/a	16.4 oz/a		B	0 -	0 c	0 c	0 c	63 -
	Huskie	100 %		0.85 lb ai/a	13 oz/a		B					
	NIS	100 %		0.25 % v/v	0.25 % v/v		B					
	N PAK AMS	100 %		2.5 % v/v	2.5 % v/v		B					
14	Axial XL	100 %		1.07 lb ai/a	16.4 oz/a		B	0 -	0 c	0 c	0 c	63 -
	Moxy	2 LBA/GAL		0.25 lb ai/a	1 pt/a		B					
15	2,4-D Ester	4 LBA/GAL		0.5 lb ai/a	1 pt/a		B	0 -	0 c	0 c	0 c	63 -
16	utc							0 -	0 c	0 c	0 c	50 -
LSD P=.05								20.5	23.6	24.1	24.1	22.3
Standard Deviation								12.3	14.2	14.5	14.4	13.3
CV								692.82	44.04	40.99	40.75	20.6
Bartlett's X2								0.0	12.67	9.078	0.0	4.924
P(Bartlett's X2)								.	0.027*	0.003*	.	0.987
Skewness								6.9282*	0.6811	0.6304	0.6297	0.9463*
Kurtosis								48.0*	-1.5331*	-1.6733*	-1.6751*	0.4857
Replicate F								1.000	0.788	0.947	1.000	4.641
Replicate Prob(F)								0.3798	0.4640	0.3992	0.3798	0.0175
Treatment F								1.000	28.475	32.606	33.000	1.571
Treatment Prob(F)								0.4801	0.0001	0.0001	0.0001	0.1425

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.
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 13,18,19 because error mean square = 0.

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Pest Type	W Weed	W Weed	W Weed	W Weed									
Pest Code	AMBTR	CHEAL	SETFA	AMBTR									
Pest Name	Giant ragweed	Common lambsqu>	Giant foxtail	Giant ragweed									
Crop Code													
Crop Name													
Rating Date	6-1-2016	6-1-2016	6-14-2016	6-14-2016									
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO									
Rating Unit	%	%	%	%									
Number of Subsamples	1	1	1	1									
Rating Timing													
Days After First/Last Applic.	70 13	70 13	83 26	83 26									
Trt-Eval Interval	13 DA-B	13 DA-B	26 DA-B	26 DA-B									
Days After Emergence	57 DE-1	57 DE-1	70 DE-1	70 DE-1									
ARM Action Codes													
Number of Decimals	0	0	0	0									
Trt No.	Treatment Name	Form Conc	Form Unit	Rate	Other Rate	Other Unit	Other Rate	Other Unit	Appl Code	6*	7*	8*	9*
1	Sharpen	2.85 LBA/GAL		0.0445 lb ai/a		2 oz/a			A	67 bc	93 -	87 -	90 ab
2	Sharpen	2.85 LBA/GAL		0.0445 lb ai/a		2 oz/a			A	100 a	97 -	87 -	100 a
	Axial Star	100 %		1.07 lb ai/a		16.4 oz/a			B				
3	Sharpen	2.85 LBA/GAL		0.0445 lb ai/a		2 oz/a			A	100 a	100 -	100 -	100 a
	Axial Star	100 %		1.07 lb ai/a		16.4 oz/a			B				
	MCPA	100 %		0.78 lb ai/a		0.75 pt/a			B				
4	Sharpen	2.85 LBA/GAL		0.0445 lb ai/a		2 oz/a			A	83 ab	93 -	100 -	100 a
	Axial XL	100 %		1.07 lb ai/a		16.4 oz/a			B				
5	Sharpen	2.85 LBA/GAL		0.0445 lb ai/a		2 oz/a			A	100 a	97 -	93 -	100 a
	Axial XL	100 %		1.07 lb ai/a		16.4 oz/a			B				
	MCPA	100 %		0.78 lb ai/a		0.75 pt/a			B				
6	Axial Star	100 %		1.07 lb ai/a		16.4 oz/a			B	67 bc	97 -	93 -	100 a
7	Axial Star	100 %		1.07 lb ai/a		16.4 oz/a			B	100 a	100 -	93 -	100 a
	MCPA	100 %		0.78 lb ai/a		0.75 pt/a			B				
8	Axial XL	100 %		1.07 lb ai/a		16.4 oz/a			B	67 bc	90 -	100 -	80 bc
9	MCPA	100 %		0.78 lb ai/a		0.75 pt/a			B	100 a	97 -	87 -	100 a
10	Huskie	100 %		0.85 lb ai/a		13 oz/a			B	100 a	97 -	93 -	100 a
	NIS	100 %		0.25 % v/v		0.25 % v/v			B				
	N PAK AMS	100 %		2.5 % v/v		2.5 % v/v			B				
11	Moxy	2 LBA/GAL		0.25 lb ai/a		1 pt/a			B	100 a	97 -	87 -	100 a
12	Axial XL	100 %		1.07 lb ai/a		16.4 oz/a			B	83 ab	93 -	93 -	90 ab
	MCPA	100 %		0.78 lb ai/a		0.75 pt/a			B				
13	Axial XL	100 %		1.07 lb ai/a		16.4 oz/a			B	100 a	93 -	93 -	100 a
	Huskie	100 %		0.85 lb ai/a		13 oz/a			B				
	NIS	100 %		0.25 % v/v		0.25 % v/v			B				
	N PAK AMS	100 %		2.5 % v/v		2.5 % v/v			B				
14	Axial XL	100 %		1.07 lb ai/a		16.4 oz/a			B	100 a	90 -	87 -	100 a
	Moxy	2 LBA/GAL		0.25 lb ai/a		1 pt/a			B				
15	2,4-D Ester	4 LBA/GAL		0.5 lb ai/a		1 pt/a			B	100 a	67 -	93 -	100 a
16	utc									50 c	90 -	80 -	70 c
LSD P=.05										24.9	24.3	15.2	11.9
Standard Deviation										14.9	14.5	9.1	7.2
CV										16.84	15.62	9.93	7.49
Bartlett's X2										0.0	37.217	0.0	0.0
P(Bartlett's X2)											0.001*	1.00	
Skewness										-1.3307*	-5.6999*	-0.3491	-2.0723*
Kurtosis										-0.241	36.7417*	-1.9617*	2.3924*
Replicate F										3.750	2.334	4.329	2.561
Replicate Prob(F)										0.0352	0.1142	0.0223	0.0940
Treatment F										3.859	0.850	1.181	4.659
Treatment Prob(F)										0.0008	0.6198	0.3368	0.0002

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Pest Type	W Weed	W Weed	W Weed	W Weed								
Pest Code	CHEAL	SETFA	AMBTR	CHEAL								
Pest Name	Common lambsqu> Giant foxtail Giant ragweed			Common lambsqu>								
Crop Code												
Crop Name												
Rating Date	6-14-2016	7-11-2016	7-11-2016	7-11-2016								
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO								
Rating Unit	%	%	%	%								
Number of Subsamples	1	1	1	1								
Rating Timing												
Days After First/Last Applic.	83 26	110 53	110 53	110 53								
Trt-Eval Interval	26 DA-B											
Days After Emergence	70 DE-1	97 DE-1	97 DE-1	97 DE-1								
ARM Action Codes												
Number of Decimals	0	0	0	0								
Trt No.	Treatment Name	Form Conc	Form Unit	Rate	Rate Unit	Other Rate	Other Unit	Appl Code	10*	11*	12*	13*
1	Sharpen	2.85 LBA/GAL		0.0445 lb ai/a		2 oz/a		A	98 ab	50 cd	95 a	100 -
2	Sharpen	2.85 LBA/GAL		0.0445 lb ai/a		2 oz/a		A	100 a	100 a	100 a	100 -
	Axial Star	100 %		1.07 lb ai/a		16.4 oz/a		B				
3	Sharpen	2.85 LBA/GAL		0.0445 lb ai/a		2 oz/a		A	100 a	100 a	100 a	100 -
	Axial Star	100 %		1.07 lb ai/a		16.4 oz/a		B				
	MCPA	100 %		0.78 lb ai/a		0.75 pt/a		B				
4	Sharpen	2.85 LBA/GAL		0.0445 lb ai/a		2 oz/a		A	97 ab	100 a	100 a	100 -
	Axial XL	100 %		1.07 lb ai/a		16.4 oz/a		B				
5	Sharpen	2.85 LBA/GAL		0.0445 lb ai/a		2 oz/a		A	98 ab	100 a	100 a	100 -
	Axial XL	100 %		1.07 lb ai/a		16.4 oz/a		B				
	MCPA	100 %		0.78 lb ai/a		0.75 pt/a		B				
6	Axial Star	100 %		1.07 lb ai/a		16.4 oz/a		B	97 ab	100 a	100 a	100 -
7	Axial Star	100 %		1.07 lb ai/a		16.4 oz/a		B	100 a	100 a	100 a	100 -
	MCPA	100 %		0.78 lb ai/a		0.75 pt/a		B				
8	Axial XL	100 %		1.07 lb ai/a		16.4 oz/a		B	97 ab	90 ab	43 b	100 -
9	MCPA	100 %		0.78 lb ai/a		0.75 pt/a		B	98 ab	47 d	100 a	100 -
10	Huskie	100 %		0.85 lb ai/a		13 oz/a		B	98 ab	63 cd	100 a	100 -
	NIS	100 %		0.25 % v/v		0.25 % v/v		B				
	N PAK AMS	100 %		2.5 % v/v		2.5 % v/v		B				
11	Moxy	2 LBA/GAL		0.25 lb ai/a		1 pt/a		B	98 ab	70 bc	98 a	100 -
12	Axial XL	100 %		1.07 lb ai/a		16.4 oz/a		B	97 ab	100 a	100 a	100 -
	MCPA	100 %		0.78 lb ai/a		0.75 pt/a		B				
13	Axial XL	100 %		1.07 lb ai/a		16.4 oz/a		B	97 ab	93 a	100 a	100 -
	Huskie	100 %		0.85 lb ai/a		13 oz/a		B				
	NIS	100 %		0.25 % v/v		0.25 % v/v		B				
	N PAK AMS	100 %		2.5 % v/v		2.5 % v/v		B				
14	Axial XL	100 %		1.07 lb ai/a		16.4 oz/a		B	95 b	100 a	98 a	100 -
	Moxy	2 LBA/GAL		0.25 lb ai/a		1 pt/a		B				
15	2,4-D Ester	4 LBA/GAL		0.5 lb ai/a		1 pt/a		B	100 a	87 ab	100 a	100 -
16	utc								95 b	63 cd	37 b	100 -
LSD P=.05									3.4	23.2	23.5	.
Standard Deviation									2.0	13.9	14.1	0.0
CV									2.1	16.36	15.32	0.0
Bartlett's X2									0.0	3.579	19.462	0.0
P(Bartlett's X2)									1.00	0.733	0.001*	.
Skewness									-0.2602	-1.2008*	-3.295*	.
Kurtosis									-2.0183*	0.1714	10.2622*	.
Replicate F									4.835	1.297	1.672	0.000
Replicate Prob(F)									0.0151	0.2881	0.2049	1.0000
Treatment F									2.041	5.924	6.272	0.000
Treatment Prob(F)									0.0469	0.0001	0.0001	1.0000

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Pest Type	HORVS			
Pest Code	Spring	Spring	Spring	Spring
Pest Name	barley	barley	barley	barley
Crop Code	7-12-2016	7-12-2016	7-12-2016	7-12-2016
Crop Name	Weight	Moicon	YIELD	WEITES
Rating Date	lbs	%	BU	lb/bu
Rating Type	1	1	1	1 1 1
Rating Unit				
Number of Subsamples				
Rating Timing				
Days After First/Last Applic.	111 54	111 54	111 54	111 54
Trt-Eval Interval				
Days After Emergence	98 DE-1	98 DE-1	98 DE-1	98 DE-1
ARM Action Codes			TY1	
Number of Decimals	1	1	1	1 0 0

Trt No.	Treatment Name	Form Conc	Form Unit	Rate	Rate Unit	Other Rate	Other Unit	Appl Code	14*	15*	16*	17*	18	19
1	Sharpen	2.85 LBA/GAL		0.0445 lb ai/a		2 oz/a		A	24.9 a	10.1 -	126.6 -	54.0 -		
2	Sharpen	2.85 LBA/GAL		0.0445 lb ai/a		2 oz/a		A	23.3 abc	9.1 -	119.9 -	54.3 -		
	Axial Star	100 %		1.07 lb ai/a		16.4 oz/a		B						
3	Sharpen	2.85 LBA/GAL		0.0445 lb ai/a		2 oz/a		A	22.9 abc	9.1 -	117.8 -	53.5 -		
	Axial Star	100 %		1.07 lb ai/a		16.4 oz/a		B						
	MCPA	100 %		0.78 lb ai/a		0.75 pt/a		B						
4	Sharpen	2.85 LBA/GAL		0.0445 lb ai/a		2 oz/a		A	22.4 bc	10.4 -	114.1 -	54.8 -		
	Axial XL	100 %		1.07 lb ai/a		16.4 oz/a		B						
5	Sharpen	2.85 LBA/GAL		0.0445 lb ai/a		2 oz/a		A	21.5 bc	9.0 -	110.9 -	53.2 -		
	Axial XL	100 %		1.07 lb ai/a		16.4 oz/a		B						
	MCPA	100 %		0.78 lb ai/a		0.75 pt/a		B						
6	Axial Star	100 %		1.07 lb ai/a		16.4 oz/a		B	23.2 abc	8.6 -	119.8 -	54.9 -		
7	Axial Star	100 %		1.07 lb ai/a		16.4 oz/a		B	22.7 abc	8.9 -	117.0 -	53.6 -		
	MCPA	100 %		0.78 lb ai/a		0.75 pt/a		B						
8	Axial XL	100 %		1.07 lb ai/a		16.4 oz/a		B	21.4 c	8.9 -	110.2 -	52.1 -		
9	MCPA	100 %		0.78 lb ai/a		0.75 pt/a		B	23.9 ab	10.1 -	121.7 -	54.1 -		
10	Huskie	100 %		0.85 lb ai/a		13 oz/a		B	23.8 ab	8.9 -	122.5 -	54.3 -		
	NIS	100 %		0.25 % v/v		0.25 % v/v		B						
	N PAK AMS	100 %		2.5 % v/v		2.5 % v/v		B						
11	Moxy	2 LBA/GAL		0.25 lb ai/a		1 pt/a		B	22.3 bc	9.6 -	113.9 -	54.7 -		
12	Axial XL	100 %		1.07 lb ai/a		16.4 oz/a		B	23.0 abc	8.8 -	118.8 -	53.8 -		
	MCPA	100 %		0.78 lb ai/a		0.75 pt/a		B						
13	Axial XL	100 %		1.07 lb ai/a		16.4 oz/a		B	22.8 abc	10.0 -	116.1 -	54.4 -		
	Huskie	100 %		0.85 lb ai/a		13 oz/a		B						
	NIS	100 %		0.25 % v/v		0.25 % v/v		B						
	N PAK AMS	100 %		2.5 % v/v		2.5 % v/v		B						
14	Axial XL	100 %		1.07 lb ai/a		16.4 oz/a		B	24.8 a	10.1 -	126.5 -	54.0 -		
	Moxy	2 LBA/GAL		0.25 lb ai/a		1 pt/a		B						
15	2,4-D Ester	4 LBA/GAL		0.5 lb ai/a		1 pt/a		B	25.0 a	9.2 -	128.3 -	54.6 -		
16	utc								21.1 c	11.0 -	106.8 -	53.8 -		
LSD P=.05									2.37	2.02	13.28	1.59		
Standard Deviation									1.42	1.21	7.96	0.95		
CV									6.17	12.78	6.74	1.77		
Bartlett's X2									13.133	18.672	10.634	14.702		
P(Bartlett's X2)									0.592	0.229	0.778	0.473		
Skewness									-0.6012	1.4049*	-0.6249	-0.8166*		
Kurtosis									-0.5317	1.3276	-0.3537	1.6493*		
Replicate F									22.515	0.146	19.526	4.641		
Replicate Prob(F)									0.0001	0.8651	0.0001	0.0175		
Treatment F									2.125	0.966	1.793	1.641		
Treatment Prob(F)									0.0385	0.5109	0.0846	0.1209		

The Ohio State University

Spring Barley Weed Management Trial

Trial ID: 16MALT1 Location: Trial Year: 2016
Protocol ID: 16MALT1 Investigator: Dr. Mark M. Loux
Project ID: Study Director: Anthony Dobbels
Sponsor Contact:

Pest Type

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

Pest Code

SETFA, Setaria faberi, = US
AMBTR, Ambrosia trifida, = US
CHEAL, Chenopodium album, = US
ABUTH, Abutilon theophrasti, = US

Crop Code

HORVS, BCER, Hordeum vulgare (spring), = HORVS, BCER, Hordeum vulgare (spring),

Rating Type

CONTRO = control / burndown or knockdown

Weight = weight

Moicon = moisture content

YIELD = yield

WEITES = weight - test

Rating Unit

% = percent

BU = bushel

ARM Action Codes

TY1 = $4.84 * [C14] * (100 - [C15]) / 85.5$