

# The Ohio State University

## 2017 Spring Malting Barley Weed Control

Trial ID: 17MALT1      Location:      Trial Year: 2017  
 Protocol ID: 17MALT1      Investigator: Dr. Mark M. Loux  
 Project ID:      Study Director:  
                          Sponsor Contact:

### General Trial Information

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

**Initiation Date:** 4-18-2017

### 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  
 No.

### Contacts

**Study Director:** Anthony Dobbels  
**Investigator:** Dr. Mark M. Loux  
**Organization:** The Ohio State University  
**Address:** 2021 Coffey Road  
**City+State/Prov:** Columbus, Ohio  
**Postal Code:** 43210  
**Country:** USA    United States

### Cooperator/Landowner

### Other Contacts

### Crop Description

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

Spring barley

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

**Planting Date:** 4-18-2017  
**Planting Method:** DRILLE      drilled  
**Planting Equipment:** DD      Disc Drill  
**Emergence Date:** 4-25-2017

**Soil Temperature, Unit:** 57    F  
**Soil Moisture:** NORMAL normal, adequate  
**Seed Bed:** MEDIUM medium

**Harvested Width, Unit:** 6.25    FT  
**Harvested Length, Unit:** 30    FT  
**Harvest Equipment:** Massey Ferguson 8 XP  
**% Standard Moisture:** 13.5  
**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:** CHEAL *Chenopodium album*  
**Common Name:** common lambsquarters

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

### Site and Design

**Treated Plot Width:** 10 FT  
**Treated Plot Length:** 30 FT  
**Treated Plot Area:** 300 FT<sup>2</sup>    **Treatments:** 16  
**Replications:** 3  
**No. Previous Crop Year**  
 1. Corn      2016

**Site Type:** FIELD    field  
**Experimental Unit:** 1    PLOT      plot  
**Tillage Type:** CON  
**Study Design:** RACOB L Randomized Complete Block (RCB)

### Maintenance

No.

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### Soil Description

**Description Name:** E-1  
**% OM:** 3.5      **Texture:** SICL silty clay loam  
**pH:** 6.6      **Soil Name:** Kokomo  
**CEC:** 22      **Fert. Level:** G good  
**Soil Drainage:** G good

### Additional Measured Elements

Date	Element	Quantity	Unit
4-17-2017	Urea	50	LBS
5-24-2017	28% UAN	15	GAL

### Application Description

	A	B
<b>Application Date:</b>	4-19-2017	6-1-2017
<b>Appl. Start Time:</b>	7:15 AM	9:15 AM
<b>Appl. Stop Time:</b>	7:30 AM	9:35 AM
<b>Application Method:</b>	SPRAY	SPRAY
<b>Application Timing:</b>	PRE	POST
<b>Application Placement:</b>	BROSOI	BROFOL
<b>Applied By:</b>	Dobbels	Ackley
<b>Air Temperature, Unit:</b>	63 F	67 F
<b>% Relative Humidity:</b>	89	46
<b>Wind Velocity, Unit:</b>	8 MPH	3 MPH
<b>Wind Direction:</b>	SSW	NE
<b>Dew Presence (Y/N):</b>	N no	Y yes
<b>Soil Temperature, Unit:</b>	56 F	58 F
<b>Soil Moisture:</b>	DRY	SLIDRY
<b>% Cloud Cover:</b>	100	0
<b>Next Moisture Occurred On:</b>	4-20-2017	6-4-2017
<b>Time to Next Moisture, Unit:</b>	1 DAY	3 DAY

### Crop Stage At Each Application

	A	B
<b>Crop 1 Code, BBCH Scale:</b>	HORVS BCER	HORVS BCER
<b>Stage Scale Used:</b>		BBCH
<b>Stage Majority, Percent:</b>		23 100
<b>Height, Unit:</b>		12 IN
<b>Height Minimum, Maximum:</b>		12 14

### Pest Stage At Each Application

	A	B
<b>Pest 1 Code, Type, Scale:</b>	SETFA W	SETFA W
<b>Stage Majority, Percent:</b>		13 100
<b>Height, Unit:</b>		5.5 IN
<b>Height Minimum, Maximum:</b>		5 6
<b>Density, Unit:</b>		126 m2
<b>Pest 2 Code, Type, Scale:</b>	AMBTR W	AMBTR W
<b>Stage Majority, Percent:</b>		19 100
<b>Height, Unit:</b>		11 IN
<b>Height Minimum, Maximum:</b>		9 13
<b>Density, Unit:</b>		5 M2
<b>Pest 3 Code, Type, Scale:</b>	CHEAL W	CHEAL W
<b>Stage Majority, Percent:</b>		19 100
<b>Height, Unit:</b>		5 IN
<b>Height Minimum, Maximum:</b>		4 6
<b>Density, Unit:</b>		12 M2
<b>Pest 4 Code, Type, Scale:</b>	AMARE W	AMARE W
<b>Stage Majority, Percent:</b>		18 100
<b>Height, Unit:</b>		4.5 IN
<b>Height Minimum, Maximum:</b>		3 6
<b>Density, Unit:</b>		2 M2

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### 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:	2 Liters	2 Liters

Propellant: CO2 CO2

Trt No Treatment Application Comment

Date By Notes

No. Date By Deviations

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	AMARE	SETFA	AMBTR
Pest Name	Giant foxtail	Giant ragweed	common lambsqu>	Redroot pigweed	Giant foxtail	Giant ragweed

Crop Code  
Crop Name

Rating Date	5-30-2017	5-30-2017	5-30-2017	5-30-2017	6-19-2017	6-19-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	41 41	41 41	41 41	41 41	61 18	61 18
Trt-Eval Interval	-2 DA-B	-2 DA-B	-2 DA-B	-2 DA-B	18 DA-B	18 DA-B
Days After Emergence	35 DE-1	35 DE-1	35 DE-1	35 DE-1	55 DE-1	55 DE-1
ARM Action Codes						
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	1	2	3	4	5	6
1	Sharpen	2 oz/a		A	0 -	57 a	90 ab	80 ab	38 de	47 bc
2	Sharpen	2 oz/a		A	0 -	63 a	90 ab	75 bc	97 a	100 a
2	Axial Star	16.4 oz/a		B						
3	Sharpen	2 oz/a		A	0 -	50 a	83 b	70 c	73 a-d	100 a
3	Axial Star	16.4 oz/a		B						
3	MCPA	0.75 pt/a		B						
4	Sharpen	2 oz/a		A	0 -	60 a	97 a	83 a	87 ab	50 bc
4	Axial XL	16.4 oz/a		B						
5	Sharpen	2 oz/a		A	0 -	67 a	92 a	77 abc	80 abc	67 ab
5	Axial XL	16.4 oz/a		B						
5	MCPA	0.75 pt/a		B						
6	Axial Star	16.4 oz/a		B	0 -	0 b	0 c	0 d	68 a-d	100 a
7	Axial Star	16.4 oz/a		B	0 -	0 b	0 c	0 d	80 abc	100 a
7	MCPA	0.75 pt/a		B						
8	Axial XL	16.4 oz/a		B	0 -	0 b	0 c	0 d	85 ab	50 bc
9	MCPA	0.75 pt/a		B	0 -	0 b	0 c	0 d	58 bcd	98 a

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	AMARE	SETFA	AMBTR
Pest Name	Giant Giant ragweed common lambsqu>			Redroot	Giant Giant ragweed	
	foxtail			pigweed	foxtail	

Crop Code  
Crop Name

Rating Date	5-30-2017	5-30-2017	5-30-2017	5-30-2017	6-19-2017	6-19-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	41 41	41 41	41 41	41 41	61 18	61 18
Trt-Eval Interval	-2 DA-B	-2 DA-B	-2 DA-B	-2 DA-B	18 DA-B	18 DA-B
Days After Emergence	35 DE-1	35 DE-1	35 DE-1	35 DE-1	55 DE-1	55 DE-1
ARM Action Codes						
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	1	2	3	4	5	6
10	Huskie	13 oz/a		B	0 -	0 b	0 c	0 d	67 a-d	100 a
10	NIS	0.25 % v/v		B						
10	N PAK AMS	2.5 % v/v		B						
11	Moxy	1 pt/a		B	0 -	0 b	0 c	0 d	47 cde	97 a
12	Axial XL	16.4 oz/a		B	0 -	0 b	0 c	0 d	82 abc	100 a
12	MCPA	0.75 pt/a		B						
13	Axial XL	16.4 oz/a		B	0 -	0 b	0 c	0 d	75 abc	100 a
13	Huskie	13 oz/a		B						
13	NIS	0.25 % v/v		B						
13	N PAK AMS	2.5 % v/v		B						
14	Axial XL	16.4 oz/a		B	0 -	0 b	0 c	0 d	55 b-e	100 a
14	Moxy	1 pt/a		B						
15	2,4-D Ester	1 pt/a		B	0 -	0 b	0 c	0 d	20 e	100 a
16	utc				0 -	0 b	0 c	0 d	20 e	20 c
LSD P=.05					.	24.1	6.8	8.1	35.7	40.0
Standard Deviation					0.0	14.5	4.1	4.8	21.4	24.0
CV					0.0	78.05	14.54	20.15	33.18	28.9
Bartlett's X2					0.0	1.299	3.225	1.8	9.339	13.935
P(Bartlett's X2)					.	0.729	0.521	0.615	0.859	0.016*
Skewness					.	1.4172*	0.8674*	0.9041*	-0.739*	-1.7189*
Kurtosis					.	0.8568	-1.2559	-1.1151	-0.3261	1.3833*
Replicate F					0.000	0.756	1.330	3.789	6.467	0.126
Replicate Prob(F)					1.0000	0.4783	0.2797	0.0341	0.0046	0.8823
Treatment F					0.000	11.713	334.217	174.273	3.505	3.737
Treatment Prob(F)					1.0000	0.0001	0.0001	0.0001	0.0017	0.0010

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	AMARE	SETFA	AMBTR	CHEAL	AMARE
Pest Name	common lambsqu>	Redroot pigweed	Giant foxtail	Giant ragweed	common lambsqu>	Redroot pigweed
Crop Code						
Crop Name						
Rating Date	6-19-2017	6-19-2017	6-29-2017	6-29-2017	6-29-2017	6-29-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	61 18	61 18	71 28	71 28	71 28	71 28
Trt-Eval Interval	18 DA-B	18 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B
Days After Emergence	55 DE-1	55 DE-1	65 DE-1	65 DE-1	65 DE-1	65 DE-1
ARM Action Codes						
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate Unit	Appl Code	7	8	9	10	11	12
1	Sharpen	2 oz/a		A	92 abc	92 abc	63 cde	50 cd	98 -	100 -
2	Sharpen	2 oz/a		A	98 ab	97 ab	100 a	100 a	98 -	100 -
	2 Axial Star	16.4 oz/a		B						
3	Sharpen	2 oz/a		A	100 a	100 a	97 a	100 a	100 -	100 -
	3 Axial Star	16.4 oz/a		B						
	3 MCPA	0.75 pt/a		B						
4	Sharpen	2 oz/a		A	97 ab	93 ab	100 a	57 bcd	100 -	100 -
	4 Axial XL	16.4 oz/a		B						
5	Sharpen	2 oz/a		A	97 ab	95 ab	93 ab	60 a-d	97 -	100 -
	5 Axial XL	16.4 oz/a		B						
	5 MCPA	0.75 pt/a		B						
6	Axial Star	16.4 oz/a		B	92 abc	92 abc	85 abc	100 a	97 -	100 -
7	Axial Star	16.4 oz/a		B	80 cd	80 cd	100 a	100 a	93 -	97 -
	7 MCPA	0.75 pt/a		B						
8	Axial XL	16.4 oz/a		B	87 bc	87 bc	93 ab	57 bcd	97 -	97 -
9	MCPA	0.75 pt/a		B	100 a	98 ab	70 b-e	99 a	100 -	100 -

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	CHEAL	AMARE	SETFA	AMBTR	CHEAL	AMARE				
Pest Name	common lambsqu>	Redroot pigweed	Giant foxtail	Giant ragweed	common lambsqu>	Redroot pigweed				
Crop Code										
Crop Name										
Rating Date	6-19-2017	6-19-2017	6-29-2017	6-29-2017	6-29-2017	6-29-2017				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1				
Days After First/Last Applic.	61 18	61 18	71 28	71 28	71 28	71 28				
Trt-Eval Interval	18 DA-B	18 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B				
Days After Emergence	55 DE-1	55 DE-1	65 DE-1	65 DE-1	65 DE-1	65 DE-1				
ARM Action Codes										
Number of Decimals	0	0	0	0	0	0				
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	7	8	9	10	11	12
10	Huskie	13 oz/a		B	100 a	98 ab	83 abc	100 a	100 -	100 -
10	NIS	0.25 % v/v		B						
10	N PAK AMS	2.5 % v/v		B						
11	Moxy	1 pt/a		B	100 a	100 a	72 b-e	100 a	100 -	100 -
12	Axial XL	16.4 oz/a		B	98 ab	93 ab	92 ab	98 a	100 -	100 -
12	MCPA	0.75 pt/a		B						
13	Axial XL	16.4 oz/a		B	97 ab	97 ab	83 abc	100 a	100 -	100 -
13	Huskie	13 oz/a		B						
13	NIS	0.25 % v/v		B						
13	N PAK AMS	2.5 % v/v		B						
14	Axial XL	16.4 oz/a		B	98 ab	92 abc	79 a-d	90 abc	93 -	100 -
14	Moxy	1 pt/a		B						
15	2,4-D Ester	1 pt/a		B	100 a	98 ab	58 de	97 ab	100 -	100 -
16	utc				73 d	73 d	50 e	47 d	90 -	100 -
LSD P=.05					12.1	13.2	23.7	40.1	9.3	3.5
Standard Deviation					7.3	7.9	14.2	24.1	5.6	2.1
CV					7.71	8.55	17.29	28.44	5.71	2.08
Bartlett's X2					16.018	18.295	8.84	24.317	8.931	0.0
P(Bartlett's X2)					0.099	0.147	0.717	0.002*	0.258	.
Skewness					-1.7384*	-1.4246*	-0.9739*	-1.6237*	-2.5032*	-4.7366*
Kurtosis					1.795*	0.9397	-0.3267	0.9748	5.4239*	21.3233*
Replicate F					0.306	0.471	12.520	0.256	0.357	0.484
Replicate Prob(F)					0.7389	0.6289	0.0001	0.7756	0.7030	0.6211
Treatment F					3.576	2.587	3.687	2.430	0.925	0.903
Treatment Prob(F)					0.0014	0.0130	0.0011	0.0187	0.5484	0.5689

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Pest Type				
Pest Code				
Pest Name				
Crop Code				
Crop Name		HORVS Spring barley	HORVS Spring barley	HORVS Spring barley
Rating Date		7-31-2017	7-31-2017	7-31-2017
Rating Type		WEIGHT	MOICON	YIELD
Rating Unit		LB	%	BU
Number of Subsamples		1	1	1
Days After First/Last Applic.		103 60	103 60	103 60
Trt-Eval Interval		Harvest	Harvest	Harvest
Days After Emergence		97 DE-1	97 DE-1	97 DE-1
ARM Action Codes				TY1
Number of Decimals		2	2	1

Trt No.	Treatment Name	Other Rate	Other Rate Unit	Appl Code	13	14	15	16
1	Sharpen	2 oz/a	A		16.47 -	11.40 a-d	81.7 -	41.96 -
2	Sharpen	2 oz/a	A		15.17 -	9.38 de	76.9 -	42.32 -
2	Axial Star	16.4 oz/a	B					
3	Sharpen	2 oz/a	A		13.98 -	9.13 e	71.0 -	41.49 -
3	Axial Star	16.4 oz/a	B					
3	MCPA	0.75 pt/a	B					
4	Sharpen	2 oz/a	A		14.33 -	12.78 ab	70.0 -	40.82 -
4	Axial XL	16.4 oz/a	B					
5	Sharpen	2 oz/a	A		16.67 -	10.51 cde	83.5 -	42.45 -
5	Axial XL	16.4 oz/a	B					
5	MCPA	0.75 pt/a	B					
6	Axial Star	16.4 oz/a	B		14.78 -	8.90 e	75.3 -	41.42 -
7	Axial Star	16.4 oz/a	B		13.77 -	8.63 e	70.3 -	40.88 -
7	MCPA	0.75 pt/a	B					
8	Axial XL	16.4 oz/a	B		15.75 -	11.90 abc	77.7 -	40.52 -
9	MCPA	0.75 pt/a	B		13.27 -	9.58 de	67.1 -	40.41 -

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Pest Type								
Pest Code								
Pest Name								
Crop Code	HORVS	HORVS	HORVS	HORVS				
Crop Name	Spring barley	Spring barley	Spring barley	Spring barley				
Rating Date	7-31-2017	7-31-2017	7-31-2017	7-31-2017				
Rating Type	WEIGHT	MOICON	YIELD	WEITES				
Rating Unit	LB	%	BU	LB				
Number of Subsamples	1	1	1	1				
Days After First/Last Applic.	103 60	103 60	103 60	103 60				
Trt-Eval Interval	Harvest	Harvest	Harvest	Harvest				
Days After Emergence	97 DE-1	97 DE-1	97 DE-1	97 DE-1				
ARM Action Codes			TY1					
Number of Decimals	2	2	1	2				
Trt No.	Treatment Name	Other Rate	Other Rate Unit	Appl Code	13	14	15	16
10	Huskie	13 oz/a		B	15.09 -	10.72 b-e	75.4 -	42.06 -
10	NIS	0.25 % v/v		B				
10	N PAK AMS	2.5 % v/v		B				
11	Moxy	1 pt/a		B	16.32 -	9.43 de	82.7 -	42.80 -
12	Axial XL	16.4 oz/a		B	15.18 -	9.17 e	77.1 -	41.62 -
12	MCPA	0.75 pt/a		B				
13	Axial XL	16.4 oz/a		B	15.06 -	8.98 e	76.7 -	42.03 -
13	Huskie	13 oz/a		B				
13	NIS	0.25 % v/v		B				
13	N PAK AMS	2.5 % v/v		B				
14	Axial XL	16.4 oz/a		B	14.20 -	8.84 e	72.4 -	41.04 -
14	Moxy	1 pt/a		B				
15	2,4-D Ester	1 pt/a		B	15.54 -	10.03 cde	78.0 -	41.50 -
16	utc				16.46 -	13.01 a	80.2 -	40.94 -
LSD P=.05					3.461	2.161	17.96	2.073
Standard Deviation					2.072	1.294	10.75	1.241
CV					13.73	12.83	14.16	2.99
Bartlett's X2					7.435	19.957	7.016	14.212
P(Bartlett's X2)					0.944	0.174	0.957	0.51
Skewness					-0.0379	0.9624*	0.0257	-1.0839*
Kurtosis					-0.8553	-0.2404	-0.6685	0.5567
Replicate F					6.404	3.388	5.315	10.858
Replicate Prob(F)					0.0050	0.0476	0.0108	0.0003
Treatment F					0.724	3.317	0.591	0.972
Treatment Prob(F)					0.7412	0.0027	0.8582	0.5058



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### 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

AMARE, Amaranthus retroflexus, Redroot pigweed = US

### Crop Code

HORVS, BCER, Hordeum vulgare, Spring barley = US

### Rating Type

CONTRO = control / burndown or knockdown

WEIGHT = weight

MOICON = moisture content

YIELD = yield

WEITES = weight - test

### Rating Unit

% = percent

LB = pound

BU = bushel

### ARM Action Codes

TY1 =  $4.84^{*}[13]^{*}(100-[14])/86.5$