

The Ohio State University

MTZ Dose Response in Corn	
Trial ID: 25MTZCORN	
Protocol ID: 25MTZCORN	Location: Western Branch G-6
Study Director:	Sponsor Contact:
Investigator:	

Status: E established
ARM Trial Created On: Apr-28-2025
Initiation Date: May-11-2025

Trial Location
City: South Charleston Country: USA United States
State/Prov.: Ohio County: Clark
Postal Code: 45368 Climate Zone: USWARM US Warm Continental

Latitude of LL Corner °: 39.85942 N
Longitude of LL Corner °: -83.67472 W
Altitude of LL Corner: 1087.00 FT

Crop Description	
Crop 1: C ZEAMX Zea mays	Corn
Entry Date: May-14-2025	BBCH Scale: BCOR
Variety: Seed Consultants SC1105PCE	Stage Scale: BBCH
Attributes: Glyph., Gluf., 2-4,D Tolerant	
Seed Shape: FLAT	Seed Size: 1562 S/LB
Planting Date: May-11-2025	Planting Rate: 32097 S/A
Depth: 2 IN	
Rows per Plot: 4	Planting Method: PLANTD planted
Row Spacing: 30 IN	Planting Equipment: FPP finger pickup planter
	Seed Bed: SMOOTH smooth
Soil Temperature: 65 F	Soil Moisture: SLIDRY slightly dry
Emergence Date: May-19-2025	

Pest Description	
Pest 1 Type: D Code: SETFA	Entry Date: Jun-16-2025
Stage Scale: DESC	
Pest 2 Type: W Code: AMBTR Ambrosia trifida	Entry Date: Jun-16-2025
Common Name: Giant ragweed	Stage Scale: BBCH

Site and Design	
Treated Plot Width: 6.67 FT	
Treated Plot Length: 30 FT	
Treated Plot Area: 200.1 FT2	
Replications: 4	Treatments: 12 Plots: 48
Distance between Blocks: 1 FT	Study Design: RACOB� Randomized Complete Block (RCB)
Distance between 'Plot' Experimental Units: 0.5 FT	

Soil Description	
Description Name: G-6	
% Sand: 32	% OM: 2.2
% Silt: 53	Texture: SICL silty clay loam
% Clay: 15	Soil Name: Kokomo
	Fert. Level: G good
pH: 5.9	CEC: 14
Soil Drainage: G	good

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Application Description

	A	B
Date	May-12-2025	Jun-11-2025
Start Time	7:00 AM	1:00 PM
Stop Time	7:30 AM	1:20 PM
Method	BROADC	SPRAY
Timing	ATPLAN	POST
Placement	BROSOI	BROFOL
Mixed/Prepared By	TONY	Dobbels
Applied By	TONY	Dobbels
Entry Date	May-14-2025	Jun-16-2025
Air Temperature Start, Stop	54, 54 F	77, 77 F
% Relative Humidity Start, Stop	83, 83	58, 58
Wind Velocity+Dir. Start	8 MPH, E	6 MPH, S
Wind Velocity+Dir. Stop	8 MPH, E	7 MPH, S
Wind Velocity+Dir. Max	8 MPH, E	7 MPH, S
Wet Leaves (Y/N)	N, no	N, no
Soil Temperature	62 F	70 F
Soil Temperature Depth	4 IN	4 IN
Soil Moisture	NORMAL	SLIWET
Soil Surface Condition	MEDIUM	MEDIUM
% Ground Cover	0	80
% Cloud Cover	100	80
First Moisture Occurred On	May-12-2025	Jun-14-2025
Time to First Moisture	7.0 HR	3.0 DAY
Amount of First Moisture	0.1 IN	0.25 IN
Moisture 1 Week Before Appl.	0.58 IN	2.93 IN
Moisture 6 Hours After Appl.	0 IN	0 IN
Moisture 24 Hours After Appl.	0.1 IN	0 IN
Moisture 1 Week After Appl.	0.81 IN	1.66 IN
Problems with Application?	N, no	N, no

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale	ZEAMX, BCOR	ZEAMX, BCOR
Days after Emergence	-7	23
Stage Majority, Percent		15, 90
Stage Minimum, Percent		15, 90
Stage Maximum, Percent		16, 10
Height Average		12 IN
Height Minimum, Maximum		12, 14

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale	SETFA, D, DESC	SETFA, D, DESC
Pest 2 Code, Type, Scale	AMBTR, W, BBCH	AMBTR, W, BBCH

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Notes					
No.	Context	Date	Time	By	Notes
1.	STATUS	Apr-28-2025	7:18 AM	Dr. Alyssa Essman	Automatically added by ARM: Trial Status updated to 'S' during trial creation by (EOHESA).
2.	STATUS	May-14-2025	12:06 PM	Dr. Alyssa Essman	Automatically added by ARM: Trial Status updated to 'E' when Planting Date was entered by (EOHESA).

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 Investigator:

Rating Date	May-28-2025	May-28-2025	May-28-2025	May-28-2025	May-28-2025
Part Rated	PLOT, C	PLOT, C	PLOT, P	PLOT, P	PLOT, P
Rating Type	PHYNEC	PHYLMA	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Sample Size	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1	1	1
Crop Type, Code	C, ZEAMD	C, ZEAMD			
Crop Scientific Name	Zea mays indent>	Zea mays indent>			
Crop Name	Dent corn	Dent corn			
Pest Type			W, Weed	W, Weed	W, Weed
Pest Code			AMBTR	SETFA	ABUTH
Pest Scientific Name			Ambrosia trifida	Setaria faberi	Abutilon theoph>
Pest Name			Giant ragweed	Giant foxtail	velvetleaf
Rating Timing	7 DAE	7 DAE	7 DAE	7 DAE	7 DAE
Days After First/Last Appl.	16, 16	16, 16	16, 16	16, 16	16, 16
Treatment Appl. Interval	16 DA-A	16 DA-A	16 DA-A	16 DA-A	16 DA-A
Planting Interval	17 DP-1	17 DP-1	17 DP-1	17 DP-1	17 DP-1
Days After Emergence	9 DE-1	9 DE-1	9 DE-1	9 DE-1	9 DE-1
Data Entry Date	May-30-2025	May-30-2025	May-30-2025	May-30-2025	May-30-2025
Trt Treatment	Rate	Rate	Rate	Rate	Rate
No. Name	Unit	Unit	Unit	Unit	Unit
	Code	Code	Code	Code	Code
1 utc	1*	2*	3*	4*	5*
2 Metribuzin 0.094 lb ai/a A	0.0 c	0.0 -	58.8 abc	63.8 bc	56.3 b
Intermoc 0.89 lb ai/a B					
Roundup Powermax 3 1.12 lb ai/a B					
AMSOL 2.5 % v/v B					
3 Metribuzin 0.188 lb ai/a A	0.0 c	0.0 -	41.3 c	58.8 bc	67.5 ab
Intermoc 0.89 lb ai/a B					
Roundup Powermax 3 1.12 lb ai/a B					
AMSOL 2.5 % v/v B					
4 Metribuzin 0.28 lb ai/a A	0.0 c	0.5 -	62.5 ab	70.0 b	75.0 ab
Intermoc 0.89 lb ai/a B					
Roundup Powermax 3 1.12 lb ai/a B					
AMSOL 2.5 % v/v B					
5 Metribuzin 0.375 lb ai/a A	0.5 bc	0.0 -	60.0 abc	65.0 bc	72.5 ab
Intermoc 0.89 lb ai/a B					
Roundup Powermax 3 1.12 lb ai/a B					
AMSOL 2.5 % v/v B					
6 Metribuzin 0.47 lb ai/a A	1.5 b	0.3 -	63.8 ab	72.5 ab	78.8 a
Intermoc 0.89 lb ai/a B					
Roundup Powermax 3 1.12 lb ai/a B					
AMSOL 2.5 % v/v B					
7 Metribuzin 0.56 lb ai/a A	3.5 a	0.0 -	65.0 ab	72.5 ab	86.3 a
Intermoc 0.89 lb ai/a B					
Roundup Powermax 3 1.12 lb ai/a B					
AMSOL 2.5 % v/v B					
8 Metribuzin 0.75 lb ai/a A	4.3 a	0.3 -	76.3 a	91.3 a	82.5 a
Intermoc 0.89 lb ai/a B					
Roundup Powermax 3 1.12 lb ai/a B					
AMSOL 2.5 % v/v B					

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. 7: >=16.30 and <=23.69) are used for mean comparisons of treatment pairs with missing data.

* Adjusted means

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Investigator:

Rating Date	May-28-2025	May-28-2025	May-28-2025	May-28-2025	May-28-2025
Part Rated	PLOT, C	PLOT, C	PLOT, P	PLOT, P	PLOT, P
Rating Type	PHYNEC	PHYLMA	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Sample Size	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1	1	1
Crop Type, Code	C, ZEAMD	C, ZEAMD			
Crop Scientific Name	Zea mays indent>	Zea mays indent>			
Crop Name	Dent corn	Dent corn			
Pest Type			W, Weed	W, Weed	W, Weed
Pest Code			AMBTR	SETFA	ABUTH
Pest Scientific Name			Ambrosia trifida	Setaria faberi	Abutilon theoph>
Pest Name			Giant ragweed	Giant foxtail	velvetleaf
Rating Timing	7 DAE	7 DAE	7 DAE	7 DAE	7 DAE
Days After First/Last Appl.	16, 16	16, 16	16, 16	16, 16	16, 16
Treatment Appl. Interval	16 DA-A	16 DA-A	16 DA-A	16 DA-A	16 DA-A
Planting Interval	17 DP-1	17 DP-1	17 DP-1	17 DP-1	17 DP-1
Days After Emergence	9 DE-1	9 DE-1	9 DE-1	9 DE-1	9 DE-1
Data Entry Date	May-30-2025	May-30-2025	May-30-2025	May-30-2025	May-30-2025
Trt Treatment	Rate Appl				
No. Name	Rate Unit Code				
9 Atrazine	1 lb ai/a A	0.3 bc	0.0 -	61.3 ab	57.5 bc
Intermoc	0.89 lb ai/a B				66.3 ab
Roundup Powermax 3	1.12 lb ai/a B				
AMSOL	2.5 % v/v B				
10 Intrava DX	0.255 lb ai/a A	0.0 c	0.5 -	55.0 bc	61.3 bc
Intermoc	0.89 lb ai/a B				72.5 ab
Roundup Powermax 3	1.12 lb ai/a B				
AMSOL	2.5 % v/v B				
11 Intrava DX	0.51 lb ai/a A	0.3 bc	0.0 -	48.8 bc	47.5 c
Intermoc	0.89 lb ai/a B				57.5 b
Roundup Powermax 3	1.12 lb ai/a B				
AMSOL	2.5 % v/v B				
12 UTC		0.0 c	0.3 -	0.0 d	0.0 d
LSD P=.05	1.40	0.42	19.84	19.35	20.46
Standard Deviation	0.97	0.29	13.79	13.45	14.22
CV	113.81	201.66	25.36	22.45	22.09
Grand Mean	0.85	0.15	54.38	59.90	64.38
Levene's F^	1.387	0.801	0.918	1.441	1.833
Levene's Prob(F)	0.221	0.638	0.534	0.198	0.084
Rank X2	.	.	.	.	.
P(Rank X2)	.	.	.	.	.
Shapiro-Wilk^	0.8054*	0.9103*	0.9779	0.9779	0.9764
P(Shapiro-Wilk)^	0.0*	0.0014*	0.4934	0.493	0.4386
Skewness^	-1.1169*	0.3477	0.2881	-0.4731	-0.5658
P(Skewness)^	0.0028*	0.3307	0.4195	0.1876	0.1165
Kurtosis^	9.4754*	-0.6259	0.9459	0.3502	0.4167
P(Kurtosis)^	0.0*	0.3726	0.1802	0.6169	0.5518
Replicate F	2.138	5.380	7.291	7.699	3.300
Replicate Prob(F)	0.1142	0.0040	0.0007	0.0005	0.0323
Treatment F	9.305	1.818	7.716	10.448	10.028
Treatment Prob(F)	0.0001	0.0909	0.0001	0.0001	0.0001

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Study Director: Sponsor Contact:

Investigator:

Rating Date	May-28-2025	May-28-2025	Jun-2-2025	Jun-2-2025
Part Rated	PLOT, P	PLOT, P	PLOT, P	PLOT, P
Rating Type	CONTRO	CONTRO	STAOBJ	STAOBJ
Rating Unit	%	%	MROW	MROW
Sample Size	1 PLOT	1 PLOT	1 m	1 m
Number of Subsamples	1	1	1	1
Crop Type, Code			C, ZEAMD	C, ZEAMD
Crop Scientific Name			Zea mays indent>	Zea mays indent>
Crop Name			Dent corn	Dent corn
Pest Type	W, Weed	W, Weed		
Pest Code	CHEAL	IPOHE		
Pest Scientific Name	Chenopodium alb>	Ipomoea hederac>		
Pest Name	common lambsqua>	ivy-leaf mornin>		
Rating Timing	7 DAE	7 DAE	V2	V2
Days After First/Last Appl.	16, 16	16, 16	21, 21	21, 21
Treatment Appl. Interval	16 DA-A	16 DA-A	21 DA-A	21 DA-A
Planting Interval	17 DP-1	17 DP-1	22 DP-1	22 DP-1
Days After Emergence	9 DE-1	9 DE-1	14 DE-1	14 DE-1
Data Entry Date	May-30-2025	May-30-2025	Jun-5-2025	Jun-5-2025
Trt Treatment	6*	7*	8*	9*
No. Name				
1 utc	47.5 c	66.7 bc	5.8 c	6.3 -
2 Metribuzin 0.094 lb ai/a A	82.5 ab	83.8 ab	6.3 bc	6.0 -
Intermoc 0.89 lb ai/a B				
Roundup Powermax 3 1.12 lb ai/a B				
AMSOL 2.5 % v/v B				
3 Metribuzin 0.188 lb ai/a A	73.8 b	72.2 abc	6.3 bc	6.0 -
Intermoc 0.89 lb ai/a B				
Roundup Powermax 3 1.12 lb ai/a B				
AMSOL 2.5 % v/v B				
4 Metribuzin 0.28 lb ai/a A	86.3 ab	77.5 abc	6.0 bc	6.3 -
Intermoc 0.89 lb ai/a B				
Roundup Powermax 3 1.12 lb ai/a B				
AMSOL 2.5 % v/v B				
5 Metribuzin 0.375 lb ai/a A	86.3 ab	80.0 abc	5.5 c	6.0 -
Intermoc 0.89 lb ai/a B				
Roundup Powermax 3 1.12 lb ai/a B				
AMSOL 2.5 % v/v B				
6 Metribuzin 0.47 lb ai/a A	98.8 a	81.3 ab	6.8 ab	5.8 -
Intermoc 0.89 lb ai/a B				
Roundup Powermax 3 1.12 lb ai/a B				
AMSOL 2.5 % v/v B				
7 Metribuzin 0.56 lb ai/a A	93.8 ab	60.3 c	6.3 bc	6.3 -
Intermoc 0.89 lb ai/a B				
Roundup Powermax 3 1.12 lb ai/a B				
AMSOL 2.5 % v/v B				
8 Metribuzin 0.75 lb ai/a A	93.8 ab	92.5 a	6.8 ab	6.0 -
Intermoc 0.89 lb ai/a B				
Roundup Powermax 3 1.12 lb ai/a B				
AMSOL 2.5 % v/v B				

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Study Director: Sponsor Contact:

Investigator:

Rating Date	May-28-2025	May-28-2025	Jun-2-2025	Jun-2-2025
Part Rated	PLOT, P	PLOT, P	PLOT, P	PLOT, P
Rating Type	CONTRO	CONTRO	STAOBJ	STAOBJ
Rating Unit	%	%	MROW	MROW
Sample Size	1 PLOT	1 PLOT	1 m	1 m
Number of Subsamples	1	1	1	1
Crop Type, Code			C, ZEAMD	C, ZEAMD
Crop Scientific Name			Zea mays indent>	Zea mays indent>
Crop Name			Dent corn	Dent corn
Pest Type	W, Weed	W, Weed		
Pest Code	CHEAL	IPOHE		
Pest Scientific Name	Chenopodium alb>	Ipomoea hederac>		
Pest Name	common lambsqua>	ivy-leaf mornin>		
Rating Timing	7 DAE	7 DAE	V2	V2
Days After First/Last Appl.	16, 16	16, 16	21, 21	21, 21
Treatment Appl. Interval	16 DA-A	16 DA-A	21 DA-A	21 DA-A
Planting Interval	17 DP-1	17 DP-1	22 DP-1	22 DP-1
Days After Emergence	9 DE-1	9 DE-1	14 DE-1	14 DE-1
Data Entry Date	May-30-2025	May-30-2025	Jun-5-2025	Jun-5-2025
Trt Treatment	6*	7*	8*	9*
No. Name				
Rate				
Unit				
Appl Code				
9 Atrazine	1 lb ai/a A			
Intermoc	0.89 lb ai/a B			
Roundup Powermax 3	1.12 lb ai/a B			
AMSOL	2.5 % v/v B			
10 Intrava DX	0.255 lb ai/a A			
Intermoc	0.89 lb ai/a B			
Roundup Powermax 3	1.12 lb ai/a B			
AMSOL	2.5 % v/v B			
11 Intrava DX	0.51 lb ai/a A			
Intermoc	0.89 lb ai/a B			
Roundup Powermax 3	1.12 lb ai/a B			
AMSOL	2.5 % v/v B			
12 UTC	0.0 d	0.0 d	6.0 bc	6.0 -
LSD P=.05	22.23	16.30	0.90	0.79
Standard Deviation	15.45	11.17	0.63	0.55
CV	19.67	15.31	10.08	9.15
Grand Mean	78.54	72.95	6.23	6.02
Levene's F^	1.471	2.051	0.772	2.999*
Levene's Prob(F)	0.185	0.063	0.665	0.006*
Rank X2	.	.	.	.
P(Rank X2)	.	.	.	.
Shapiro-Wilk^	0.9673	0.9348*	0.9644	0.9765
P(Shapiro-Wilk)^	0.1988	0.0258*	0.1513	0.4421
Skewness^	0.2056	-0.6558	-0.4877	-0.0388
P(Skewness)^	0.5639	0.1031	0.1746	0.9132
Kurtosis^	1.758*	3.6852*	1.5272*	0.4986
P(Kurtosis)^	0.0149*	0.0*	0.033*	0.4768
Replicate F	4.099	2.733	0.616	1.349
Replicate Prob(F)	0.0141	0.0660	0.6095	0.2753
Treatment F	13.838	19.095	2.472	0.518
Treatment Prob(F)	0.0001	0.0001	0.0220	0.8774

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 Investigator:

Rating Date	Jun-4-2025	Jun-4-2025	Jun-4-2025	Jun-4-2025
Part Rated	PLOT, P	PLOT, P	PLOT, P	PLOT, P
Rating Type	PHYNEC	PHYCHL	PHYSTU	PHYLMA
Rating Unit	%	%	%	%
Sample Size	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1	1
Crop Type, Code	C, ZEAMD	C, ZEAMD	C, ZEAMD	C, ZEAMD
Crop Scientific Name	Zea mays indent>	Zea mays indent>	Zea mays indent>	Zea mays indent>
Crop Name	Dent corn	Dent corn	Dent corn	Dent corn
Pest Type				
Pest Code				
Pest Scientific Name				
Pest Name				
Rating Timing	14 DAE	14 DAE	14 DAE	14 DAE
Days After First/Last Appl.	23, 23	23, 23	23, 23	23, 23
Treatment Appl. Interval	23 DA-A	23 DA-A	23 DA-A	23 DA-A
Planting Interval	24 DP-1	24 DP-1	24 DP-1	24 DP-1
Days After Emergence	16 DE-1	16 DE-1	16 DE-1	16 DE-1
Data Entry Date	Jun-5-2025	Jun-5-2025	Jun-5-2025	Jun-5-2025
Trt Treatment	Rate	Rate	Rate	Rate
No. Name	Unit	Unit	Unit	Unit
	Code	Code	Code	Code
1 utc	10*	11*	12*	13*
2 Metribuzin 0.094 lb ai/a A	0.0 b	0.3 -	0.0 -	0.0 -
Intermoc 0.89 lb ai/a B				
Roundup Powermax 3 1.12 lb ai/a B				
AMSOL 2.5 % v/v B				
3 Metribuzin 0.188 lb ai/a A	0.0 b	0.0 -	0.0 -	0.0 -
Intermoc 0.89 lb ai/a B				
Roundup Powermax 3 1.12 lb ai/a B				
AMSOL 2.5 % v/v B				
4 Metribuzin 0.28 lb ai/a A	0.0 b	0.0 -	0.0 -	0.0 -
Intermoc 0.89 lb ai/a B				
Roundup Powermax 3 1.12 lb ai/a B				
AMSOL 2.5 % v/v B				
5 Metribuzin 0.375 lb ai/a A	0.0 b	0.0 -	0.0 -	0.0 -
Intermoc 0.89 lb ai/a B				
Roundup Powermax 3 1.12 lb ai/a B				
AMSOL 2.5 % v/v B				
6 Metribuzin 0.47 lb ai/a A	0.0 b	0.0 -	0.0 -	0.0 -
Intermoc 0.89 lb ai/a B				
Roundup Powermax 3 1.12 lb ai/a B				
AMSOL 2.5 % v/v B				
7 Metribuzin 0.56 lb ai/a A	1.0 b	0.0 -	0.0 -	0.0 -
Intermoc 0.89 lb ai/a B				
Roundup Powermax 3 1.12 lb ai/a B				
AMSOL 2.5 % v/v B				
8 Metribuzin 0.75 lb ai/a A	3.0 a	0.0 -	0.3 -	0.0 -
Intermoc 0.89 lb ai/a B				
Roundup Powermax 3 1.12 lb ai/a B				
AMSOL 2.5 % v/v B				

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Study Director: Sponsor Contact:

Investigator:

Rating Date	Jun-4-2025	Jun-4-2025	Jun-4-2025	Jun-4-2025
Part Rated	PLOT, P	PLOT, P	PLOT, P	PLOT, P
Rating Type	PHYNEC	PHYCHL	PHYSTU	PHYLMA
Rating Unit	%	%	%	%
Sample Size	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1	1
Crop Type, Code	C, ZEAMD	C, ZEAMD	C, ZEAMD	C, ZEAMD
Crop Scientific Name	Zea mays indent>	Zea mays indent>	Zea mays indent>	Zea mays indent>
Crop Name	Dent corn	Dent corn	Dent corn	Dent corn
Pest Type				
Pest Code				
Pest Scientific Name				
Pest Name				
Rating Timing	14 DAE	14 DAE	14 DAE	14 DAE
Days After First/Last Appl.	23, 23	23, 23	23, 23	23, 23
Treatment Appl. Interval	23 DA-A	23 DA-A	23 DA-A	23 DA-A
Planting Interval	24 DP-1	24 DP-1	24 DP-1	24 DP-1
Days After Emergence	16 DE-1	16 DE-1	16 DE-1	16 DE-1
Data Entry Date	Jun-5-2025	Jun-5-2025	Jun-5-2025	Jun-5-2025
Trt Treatment	Rate Appl			
No. Name	Rate Unit Code			
9 Atrazine	1 lb ai/a A	10*	11*	12*
Intermoc	0.89 lb ai/a B	0.3 b	0.0 -	0.0 -
Roundup Powermax 3	1.12 lb ai/a B			
AMSOL	2.5 % v/v B			
10 Intrava DX	0.255 lb ai/a A	0.0 b	0.0 -	0.3 -
Intermoc	0.89 lb ai/a B			
Roundup Powermax 3	1.12 lb ai/a B			
AMSOL	2.5 % v/v B			
11 Intrava DX	0.51 lb ai/a A	0.5 b	0.0 -	0.0 -
Intermoc	0.89 lb ai/a B			
Roundup Powermax 3	1.12 lb ai/a B			
AMSOL	2.5 % v/v B			
12 UTC		0.0 b	0.0 -	0.0 -
LSD P=.05	1.02	0.21	0.21	0.21
Standard Deviation	0.71	0.14	0.14	0.14
CV	162.54	692.82	692.82	692.82
Grand Mean	0.44	0.02	0.02	0.02
Levene's F^	1.984	0.758	0.758	0.758
Levene's Prob(F)	0.06	0.678	0.678	0.678
Rank X2	.	.	.	.
P(Rank X2)	.	.	.	.
Shapiro-Wilk^	0.868*	0.4863*	0.4863*	0.4863*
P(Shapiro-Wilk)^	0.0*	0.0*	0.0*	0.0*
Skewness^	0.8302*	3.5949*	3.5949*	3.5949*
P(Skewness)^	0.0232*	0.0*	0.0*	0.0*
Kurtosis^	4.1043*	22.9943*	22.9943*	22.9943*
P(Kurtosis)^	0.0*	0.0*	0.0*	0.0*
Replicate F	1.360	1.000	1.000	1.000
Replicate Prob(F)	0.2722	0.4051	0.4051	0.4051
Treatment F	5.944	1.000	1.000	1.000
Treatment Prob(F)	0.0001	0.4671	0.4671	0.4671

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. 7: >=16.30 and <=23.69) are used for mean comparisons of treatment pairs with missing data.

* Adjusted means

Could not calculate LSD (% mean diff) or mean separation letters for columns 40 because error variance is 0.

Mean separation letters are 'na' (not applicable) when error variance is 0

^Calculated from residual.

The Ohio State University

MTZ Dose Response in Corn

Trial ID: 25MTZCORN
 Protocol ID: 25MTZCORN Location: Western Branch G-6 Trial Year: 2025
 Study Director: Sponsor Contact:
 Investigator:

Rating Date	Jun-4-2025	Jun-4-2025	Jun-4-2025	Jun-4-2025	Jun-4-2025
Part Rated	PLOT, P	PLOT, P	PLOT, P	PLOT, P	PLOT, P
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Sample Size	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1	1	1
Crop Type, Code					
Crop Scientific Name					
Crop Name					
Pest Type	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed
Pest Code	IPHOE	AMBTR	SETFA	ABUTH	CHEAL
Pest Scientific Name	Ipomoea hederac>	Ambrosia trifida	Setaria faberi	Abutilon theoph>	Chenopodium alb>
Pest Name	ivy-leaf mornin>	Giant ragweed	Giant foxtail	velvetleaf	common lambsqua>
Rating Timing	21 DAT	21 DAT	21 DAT	21 DAT	21 DAT
Days After First/Last Appl.	23, 23	23, 23	23, 23	23, 23	23, 23
Treatment Appl. Interval	23 DA-A	23 DA-A	23 DA-A	23 DA-A	23 DA-A
Planting Interval	24 DP-1	24 DP-1	24 DP-1	24 DP-1	24 DP-1
Days After Emergence	16 DE-1	16 DE-1	16 DE-1	16 DE-1	16 DE-1
Data Entry Date	Jun-5-2025	Jun-5-2025	Jun-5-2025	Jun-5-2025	Jun-5-2025
Trt Treatment	Rate	Rate	Rate	Rate	Rate
No. Name	Unit	Unit	Unit	Unit	Unit
	Code	Code	Code	Code	Code
1 utc	14*	15*	16*	17*	18*
2 Metribuzin 0.094 lb ai/a A	0.0 -	45.0 bc	46.3 cd	28.8 de	35.0 d
Intermoc 0.89 lb ai/a B	4.7 -	38.8 bc	35.0 d	37.5 cd	55.0 cd
Roundup Powermax 3 1.12 lb ai/a B					
AMSOL 2.5 % v/v B					
3 Metribuzin 0.188 lb ai/a A	28.2 -	22.5 cd	27.5 de	45.0 cd	61.3 bcd
Intermoc 0.89 lb ai/a B					
Roundup Powermax 3 1.12 lb ai/a B					
AMSOL 2.5 % v/v B					
4 Metribuzin 0.28 lb ai/a A	45.0 -	60.0 ab	70.0 abc	66.3 abc	77.5 abc
Intermoc 0.89 lb ai/a B					
Roundup Powermax 3 1.12 lb ai/a B					
AMSOL 2.5 % v/v B					
5 Metribuzin 0.375 lb ai/a A	22.5 -	60.0 ab	73.8 abc	65.0 abc	81.3 abc
Intermoc 0.89 lb ai/a B					
Roundup Powermax 3 1.12 lb ai/a B					
AMSOL 2.5 % v/v B					
6 Metribuzin 0.47 lb ai/a A	43.8 -	47.5 abc	82.5 a	81.3 ab	90.0 ab
Intermoc 0.89 lb ai/a B					
Roundup Powermax 3 1.12 lb ai/a B					
AMSOL 2.5 % v/v B					
7 Metribuzin 0.56 lb ai/a A	56.6 -	47.5 abc	78.8 ab	80.0 ab	73.8 abc
Intermoc 0.89 lb ai/a B					
Roundup Powermax 3 1.12 lb ai/a B					
AMSOL 2.5 % v/v B					
8 Metribuzin 0.75 lb ai/a A	90.6 -	78.8 a	85.0 a	86.3 a	97.5 a
Intermoc 0.89 lb ai/a B					
Roundup Powermax 3 1.12 lb ai/a B					
AMSOL 2.5 % v/v B					

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. 7: >=16.30 and <=23.69) are used for mean comparisons of treatment pairs with missing data.

* Adjusted means

Could not calculate LSD (% mean diff) or mean separation letters for columns 40 because error variance is 0.

Mean separation letters are 'na' (not applicable) when error variance is 0

^Calculated from residual.

The Ohio State University

MTZ Dose Response in Corn

Trial ID: 25MTZCORN

Protocol ID: 25MTZCORN Location: Western Branch G-6 Trial Year: 2025

Study Director: Sponsor Contact:

Investigator:

Rating Date	Jun-4-2025	Jun-4-2025	Jun-4-2025	Jun-4-2025	Jun-4-2025
Part Rated	PLOT, P	PLOT, P	PLOT, P	PLOT, P	PLOT, P
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Sample Size	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1	1	1
Crop Type, Code					
Crop Scientific Name					
Crop Name					
Pest Type	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed
Pest Code	IPOHE	AMBTR	SETFA	ABUTH	CHEAL
Pest Scientific Name	Ipomoea hederac>	Ambrosia trifida	Setaria faberi	Abutilon theoph>	Chenopodium alb>
Pest Name	ivy-leaf mornin>	Giant ragweed	Giant foxtail	velvetleaf	common lambsqua>
Rating Timing	21 DAT	21 DAT	21 DAT	21 DAT	21 DAT
Days After First/Last Appl.	23, 23	23, 23	23, 23	23, 23	23, 23
Treatment Appl. Interval	23 DA-A	23 DA-A	23 DA-A	23 DA-A	23 DA-A
Planting Interval	24 DP-1	24 DP-1	24 DP-1	24 DP-1	24 DP-1
Days After Emergence	16 DE-1	16 DE-1	16 DE-1	16 DE-1	16 DE-1
Data Entry Date	Jun-5-2025	Jun-5-2025	Jun-5-2025	Jun-5-2025	Jun-5-2025
Trt Treatment	14*	15*	16*	17*	18*
No. Name					
Rate					
Unit					
Appl Code					
9 Atrazine	1 lb ai/a A				
Intermoc	0.89 lb ai/a B				
Roundup Powermax 3	1.12 lb ai/a B				
AMSOL	2.5 % v/v B				
43.2 -		38.8 bc	35.0 d	32.5 d	78.8 abc
10 Intrava DX	0.255 lb ai/a A				
Intermoc	0.89 lb ai/a B				
Roundup Powermax 3	1.12 lb ai/a B				
AMSOL	2.5 % v/v B				
36.3 -		52.5 abc	52.5 bcd	55.0 bcd	70.0 abc
11 Intrava DX	0.51 lb ai/a A				
Intermoc	0.89 lb ai/a B				
Roundup Powermax 3	1.12 lb ai/a B				
AMSOL	2.5 % v/v B				
30.0 -		45.0 bc	30.0 d	43.8 cd	65.0 bcd
12 UTC	0.0 -	0.0 d	0.0 e	0.0 e	0.0 e
LSD P=.05	47.66	31.91	28.60	29.62	30.70
Standard Deviation	32.90	22.18	19.88	20.59	21.34
CV	102.15	49.64	38.71	39.77	32.62
Grand Mean	32.21	44.69	51.35	51.77	65.42
Levene's F^	0.698	0.792	1.88	1.449	0.923
Levene's Prob(F)	0.731	0.647	0.076	0.194	0.529
Rank X2	.	.	.	.	.
P(Rank X2)	.	.	.	.	.
Shapiro-Wilk^	0.9777	0.9777	0.9809	0.986	0.9654
P(Shapiro-Wilk)^	0.5572	0.4866	0.6172	0.8298	0.1663
Skewness^	0.1163	0.0915	-0.0992	0.282	-0.3467
P(Skewness)^	0.7572	0.797	0.7805	0.4294	0.3321
Kurtosis^	-0.3892	-0.6997	-0.3744	-0.1064	-0.2963
P(Kurtosis)^	0.5985	0.3194	0.5927	0.8791	0.672
Replicate F	1.375	9.259	5.942	3.185	2.851
Replicate Prob(F)	0.2708	0.0001	0.0023	0.0365	0.0522
Treatment F	1.892	3.153	7.295	6.128	6.091
Treatment Prob(F)	0.0847	0.0052	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. 7: >=16.30 and <=23.69) are used for mean comparisons of treatment pairs with missing data.

* Adjusted means

Could not calculate LSD (% mean diff) or mean separation letters for columns 40 because error variance is 0.

Mean separation letters are 'na' (not applicable) when error variance is 0

^Calculated from residual.

The Ohio State University

MTZ Dose Response in Corn

Trial ID: 25MTZCORN

Protocol ID: 25MTZCORN Location: Western Branch G-6 Trial Year: 2025

Study Director: Sponsor Contact:

Investigator:

Rating Date				Jun-4-2025	Jun-4-2025	Jun-11-2025	Jun-11-2025	Jun-11-2025
Part Rated				PLOT, P	PLOT, P	PLANT, P	PLANT, P	PLANT, P
Rating Type				CONTRO	CONTRO	COUPLA	COUPLA	COUPLA
Rating Unit				%	%	PLANT	PLANT	PLANT
Sample Size				1 PLOT	1 PLOT	0.25 M2	0.25 M2	0.25 M2
Number of Subsamples				1	1	1	1	1
Crop Type, Code								
Crop Scientific Name								
Crop Name								
Pest Type				W, Weed	W, Weed	W, Weed	W, Weed	W, Weed
Pest Code				AMARE	SOLPS	AMBTR	AMBTR	SETFA
Pest Scientific Name				Amaranthus retr>	Solanum physali>	Ambrosia trifida	Ambrosia trifida	Setaria faberi
Pest Name				Redroot pigweed	hairy nightshade	Giant ragweed	Giant ragweed	Giant foxtail
Rating Timing				21 DAT	21 DAT			
Days After First/Last Appl.				23, 23	23, 23	30, 30	30, 30	30, 30
Treatment Appl. Interval				23 DA-A	23 DA-A			
Planting Interval				24 DP-1	24 DP-1	31 DP-1	31 DP-1	31 DP-1
Days After Emergence				16 DE-1	16 DE-1	23 DE-1	23 DE-1	23 DE-1
Data Entry Date				Jun-5-2025	Jun-5-2025	Jun-25-2025	Jun-25-2025	Jun-25-2025
Trt Treatment				19*	20*	21*	22*	23*
No. Name								
Rate								
Unit								
Code								
1	utc			100.0 a	45.0 de	4.5 -	3.8 -	17.3 abc
2	Metribuzin	0.094 lb ai/a	A	100.0 a	71.3 a-d	6.3 -	1.8 -	21.3 a
	Intermoc	0.89 lb ai/a	B					
	Roundup Powermax 3	1.12 lb ai/a	B					
	AMSOL	2.5 % v/v	B					
3	Metribuzin	0.188 lb ai/a	A	98.8 a	46.3 cd	6.3 -	8.3 -	18.3 ab
	Intermoc	0.89 lb ai/a	B					
	Roundup Powermax 3	1.12 lb ai/a	B					
	AMSOL	2.5 % v/v	B					
4	Metribuzin	0.28 lb ai/a	A	98.8 a	91.3 abc	4.8 -	3.3 -	9.0 bcd
	Intermoc	0.89 lb ai/a	B					
	Roundup Powermax 3	1.12 lb ai/a	B					
	AMSOL	2.5 % v/v	B					
5	Metribuzin	0.375 lb ai/a	A	75.0 b	85.0 a-d	3.0 -	3.8 -	15.3 a-d
	Intermoc	0.89 lb ai/a	B					
	Roundup Powermax 3	1.12 lb ai/a	B					
	AMSOL	2.5 % v/v	B					
6	Metribuzin	0.47 lb ai/a	A	100.0 a	72.5 a-d	5.0 -	4.5 -	12.0 a-d
	Intermoc	0.89 lb ai/a	B					
	Roundup Powermax 3	1.12 lb ai/a	B					
	AMSOL	2.5 % v/v	B					
7	Metribuzin	0.56 lb ai/a	A	100.0 a	48.8 bcd	3.8 -	3.5 -	7.3 cd
	Intermoc	0.89 lb ai/a	B					
	Roundup Powermax 3	1.12 lb ai/a	B					
	AMSOL	2.5 % v/v	B					
8	Metribuzin	0.75 lb ai/a	A	100.0 a	72.5 a-d	2.5 -	2.0 -	6.0 d
	Intermoc	0.89 lb ai/a	B					
	Roundup Powermax 3	1.12 lb ai/a	B					
	AMSOL	2.5 % v/v	B					

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. 7: >=16.30 and <=23.69) are used for mean comparisons of treatment pairs with missing data.

* Adjusted means

Could not calculate LSD (% mean diff) or mean separation letters for columns 40 because error variance is 0.

Mean separation letters are 'na' (not applicable) when error variance is 0

^Calculated from residual.

The Ohio State University

MTZ Dose Response in Corn

Trial ID: 25MTZCORN

Protocol ID: 25MTZCORN Location: Western Branch G-6 Trial Year: 2025

Study Director: Sponsor Contact:

Investigator:

Rating Date		Jun-4-2025	Jun-4-2025	Jun-11-2025	Jun-11-2025	Jun-11-2025
Part Rated		PLOT, P	PLOT, P	PLANT, P	PLANT, P	PLANT, P
Rating Type		CONTRO	CONTRO	COUPLA	COUPLA	COUPLA
Rating Unit		%	%	PLANT	PLANT	PLANT
Sample Size		1 PLOT	1 PLOT	0.25 M2	0.25 M2	0.25 M2
Number of Subsamples		1	1	1	1	1
Crop Type, Code						
Crop Scientific Name						
Crop Name						
Pest Type		W, Weed	W, Weed	W, Weed	W, Weed	W, Weed
Pest Code		AMARE	SOLPS	AMBTR	AMBTR	SETFA
Pest Scientific Name		Amaranthus retr>	Solanum physali>	Ambrosia trifida	Ambrosia trifida	Setaria faberi
Pest Name		Redroot pigweed	hairy nightshade	Giant ragweed	Giant ragweed	Giant foxtail
Rating Timing		21 DAT	21 DAT			
Days After First/Last Appl.		23, 23	23, 23	30, 30	30, 30	30, 30
Treatment Appl. Interval		23 DA-A	23 DA-A			
Planting Interval		24 DP-1	24 DP-1	31 DP-1	31 DP-1	31 DP-1
Days After Emergence		16 DE-1	16 DE-1	23 DE-1	23 DE-1	23 DE-1
Data Entry Date		Jun-5-2025	Jun-5-2025	Jun-25-2025	Jun-25-2025	Jun-25-2025
Trt Treatment	Rate	19*	20*	21*	22*	23*
No. Name	Rate Unit Code					
9 Atrazine	1 lb ai/a A	95.0 ab	97.5 a	2.5 -	4.3 -	20.8 a
Intermoc	0.89 lb ai/a B					
Roundup Powermax 3	1.12 lb ai/a B					
AMSOL	2.5 % v/v B					
10 Intrava DX	0.255 lb ai/a A	93.8 ab	93.8 ab	3.3 -	2.5 -	18.5 ab
Intermoc	0.89 lb ai/a B					
Roundup Powermax 3	1.12 lb ai/a B					
AMSOL	2.5 % v/v B					
11 Intrava DX	0.51 lb ai/a A	100.0 a	88.8 a-d	4.3 -	7.5 -	12.0 a-d
Intermoc	0.89 lb ai/a B					
Roundup Powermax 3	1.12 lb ai/a B					
AMSOL	2.5 % v/v B					
12 UTC		0.0 c	0.0 e	8.3 -	8.5 -	21.5 a
LSD P=.05		20.90	45.68	4.52	5.33	10.46
Standard Deviation		14.53	31.76	3.14	3.71	7.27
CV		16.43	46.9	69.56	83.17	48.74
Grand Mean		88.44	67.71	4.52	4.46	14.92
Levene's F^		0.669	0.863	1.793	0.466	0.318
Levene's Prob(F)		0.758	0.582	0.092	0.912	0.977
Rank X2		.	.	.	.	.
P(Rank X2)		.	.	.	.	.
Shapiro-Wilk^		0.6144*	0.9441*	0.9766	0.9665	0.978
P(Shapiro-Wilk)^		0.0*	0.0233*	0.4458	0.1848	0.4992
Skewness^		-3.169*	-0.705	0.192	0.3467	0.4474
P(Skewness)^		0.0*	0.0521	0.59	0.3321	0.2122
Kurtosis^		19.2887*	-0.1617	-0.5874	0.5676	0.1964
P(Kurtosis)^		0.0*	0.8171	0.4025	0.4184	0.7788
Replicate F		1.806	3.028	1.412	1.158	16.662
Replicate Prob(F)		0.1653	0.0432	0.2567	0.3406	0.0001
Treatment F		15.662	3.188	1.211	1.603	2.320
Treatment Prob(F)		0.0001	0.0048	0.3184	0.1439	0.0305

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. 7: >=16.30 and <=23.69) are used for mean comparisons of treatment pairs with missing data.

* Adjusted means

Could not calculate LSD (% mean diff) or mean separation letters for columns 40 because error variance is 0.

Mean separation letters are 'na' (not applicable) when error variance is 0

^Calculated from residual.

The Ohio State University

MTZ Dose Response in Corn

Trial ID: 25MTZCORN

Protocol ID: 25MTZCORN Location: Western Branch G-6 Trial Year: 2025

Study Director: Sponsor Contact:

Investigator:

Rating Date				Jun-11-2025	Jun-11-2025	Jun-11-2025	Jun-11-2025	Jun-11-2025
Part Rated				PLANT, P	PLANT, P	PLANT, P	PLANT, P	PLANT, P
Rating Type				COUPLA	COUPLA	COUPLA	COUPLA	COUPLA
Rating Unit				PLANT	PLANT	PLANT	PLANT	PLANT
Sample Size				0.25 M2	0.25 M2	0.25 M2	0.25 M2	0.25 M2
Number of Subsamples				1	1	1	1	1
Crop Type, Code								
Crop Scientific Name								
Crop Name								
Pest Type				W, Weed	W, Weed	W, Weed	W, Weed	W, Weed
Pest Code				SETFA	CHEAL	CHEAL	ABUTH	ABUTH
Pest Scientific Name				Setaria faberi	Chenopodium alb>	Chenopodium alb>	Abutilon theoph>	Abutilon theoph>
Pest Name				Giant foxtail	common lambsqua>	common lambsqua>	velvetleaf	velvetleaf
Rating Timing								
Days After First/Last Appl.				30, 30	30, 30	30, 30	30, 30	30, 30
Treatment Appl. Interval								
Planting Interval				31 DP-1	31 DP-1	31 DP-1	31 DP-1	31 DP-1
Days After Emergence				23 DE-1	23 DE-1	23 DE-1	23 DE-1	23 DE-1
Data Entry Date				Jun-25-2025	Jun-25-2025	Jun-25-2025	Jun-25-2025	Jun-25-2025
Trt Treatment				24*	25*	26*	27*	28*
No. Name								
Rate								
Unit								
Code								
1	utc			22.5 bc	15.0 -	10.0 b	4.5 -	3.3 -
2	Metribuzin	0.094 lb ai/a	A	20.0 bc	2.8 -	4.8 bc	4.8 -	0.5 -
	Intermoc	0.89 lb ai/a	B					
	Roundup Powermax 3	1.12 lb ai/a	B					
	AMSOL	2.5 % v/v	B					
3	Metribuzin	0.188 lb ai/a	A	27.8 ab	4.5 -	2.0 c	1.5 -	2.5 -
	Intermoc	0.89 lb ai/a	B					
	Roundup Powermax 3	1.12 lb ai/a	B					
	AMSOL	2.5 % v/v	B					
4	Metribuzin	0.28 lb ai/a	A	18.3 bc	2.0 -	3.0 bc	2.3 -	1.3 -
	Intermoc	0.89 lb ai/a	B					
	Roundup Powermax 3	1.12 lb ai/a	B					
	AMSOL	2.5 % v/v	B					
5	Metribuzin	0.375 lb ai/a	A	15.8 bcd	1.0 -	1.3 c	2.8 -	1.5 -
	Intermoc	0.89 lb ai/a	B					
	Roundup Powermax 3	1.12 lb ai/a	B					
	AMSOL	2.5 % v/v	B					
6	Metribuzin	0.47 lb ai/a	A	12.5 cd	0.8 -	0.8 c	1.5 -	0.0 -
	Intermoc	0.89 lb ai/a	B					
	Roundup Powermax 3	1.12 lb ai/a	B					
	AMSOL	2.5 % v/v	B					
7	Metribuzin	0.56 lb ai/a	A	15.3 bcd	0.8 -	1.0 c	5.8 -	2.8 -
	Intermoc	0.89 lb ai/a	B					
	Roundup Powermax 3	1.12 lb ai/a	B					
	AMSOL	2.5 % v/v	B					
8	Metribuzin	0.75 lb ai/a	A	3.5 d	0.3 -	1.0 c	6.0 -	0.3 -
	Intermoc	0.89 lb ai/a	B					
	Roundup Powermax 3	1.12 lb ai/a	B					
	AMSOL	2.5 % v/v	B					

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. 7: >=16.30 and <=23.69) are used for mean comparisons of treatment pairs with missing data.

* Adjusted means

Could not calculate LSD (% mean diff) or mean separation letters for columns 40 because error variance is 0.

Mean separation letters are 'na' (not applicable) when error variance is 0

^Calculated from residual.

The Ohio State University

MTZ Dose Response in Corn

Trial ID: 25MTZCORN

Protocol ID: 25MTZCORN Location: Western Branch G-6 Trial Year: 2025

Study Director: Sponsor Contact:

Investigator:

Rating Date	Jun-11-2025	Jun-11-2025	Jun-11-2025	Jun-11-2025	Jun-11-2025
Part Rated	PLANT, P	PLANT, P	PLANT, P	PLANT, P	PLANT, P
Rating Type	COUPLA	COUPLA	COUPLA	COUPLA	COUPLA
Rating Unit	PLANT	PLANT	PLANT	PLANT	PLANT
Sample Size	0.25 M2	0.25 M2	0.25 M2	0.25 M2	0.25 M2
Number of Subsamples	1	1	1	1	1
Crop Type, Code					
Crop Scientific Name					
Crop Name					
Pest Type	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed
Pest Code	SETFA	CHEAL	CHEAL	ABUTH	ABUTH
Pest Scientific Name	Setaria faberi	Chenopodium alb>	Chenopodium alb>	Abutilon theoph>	Abutilon theoph>
Pest Name	Giant foxtail	common lambsqua>	common lambsqua>	velvetleaf	velvetleaf
Rating Timing					
Days After First/Last Appl.	30, 30	30, 30	30, 30	30, 30	30, 30
Treatment Appl. Interval					
Planting Interval	31 DP-1	31 DP-1	31 DP-1	31 DP-1	31 DP-1
Days After Emergence	23 DE-1	23 DE-1	23 DE-1	23 DE-1	23 DE-1
Data Entry Date	Jun-25-2025	Jun-25-2025	Jun-25-2025	Jun-25-2025	Jun-25-2025
Trt Treatment No. Name	Rate Unit Code				
24*		25*	26*	27*	28*
9 Atrazine	1 lb ai/a A				
Intermoc	0.89 lb ai/a B				
Roundup Powermax 3	1.12 lb ai/a B				
AMSOL	2.5 % v/v B				
10 Intrava DX	0.255 lb ai/a A				
Intermoc	0.89 lb ai/a B				
Roundup Powermax 3	1.12 lb ai/a B				
AMSOL	2.5 % v/v B				
11 Intrava DX	0.51 lb ai/a A				
Intermoc	0.89 lb ai/a B				
Roundup Powermax 3	1.12 lb ai/a B				
AMSOL	2.5 % v/v B				
12 UTC					
LSD P=.05	14.72	10.29	7.05	6.88	6.37
Standard Deviation	10.23	7.15	4.90	4.78	4.43
CV	51.71	210.69	115.95	141.7	244.21
Grand Mean	19.79	3.40	4.23	3.38	1.81
Levene's F^	1.372	0.736	6.17*	0.528	0.613
Levene's Prob(F)	0.228	0.697	0.00*	0.872	0.805
Rank X2	.	.	.	.	.
P(Rank X2)	.	.	.	.	.
Shapiro-Wilk^	0.9847	0.6779*	0.9534	0.9419*	0.7995*
P(Shapiro-Wilk)^	0.7799	0.0*	0.0546	0.0193*	0.0*
Skewness^	0.1239	3.0402*	0.147	0.657	2.2221*
P(Skewness)^	0.7277	0.0*	0.6796	0.0696	0.0*
Kurtosis^	-0.6735	18.0663*	2.1241*	1.2903	11.3226*
P(Kurtosis)^	0.3377	0.0*	0.0037*	0.0698	0.0*
Replicate F	3.557	2.508	2.893	8.391	2.173
Replicate Prob(F)	0.0246	0.0759	0.0499	0.0003	0.1098
Treatment F	3.332	1.775	6.012	0.695	1.081
Treatment Prob(F)	0.0036	0.0997	0.0001	0.7341	0.4049

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. 7: >=16.30 and <=23.69) are used for mean comparisons of treatment pairs with missing data.

* Adjusted means

Could not calculate LSD (% mean diff) or mean separation letters for columns 40 because error variance is 0.

Mean separation letters are 'na' (not applicable) when error variance is 0

^Calculated from residual.

MTZ Dose Response in Corn													
Trial ID: 25MTZCORN Protocol ID: 25MTZCORN Location: Western Branch G-6 Trial Year: 2025 Study Director: Sponsor Contact: Investigator:													
Rating Date Part Rated Rating Type Rating Unit Sample Size Number of Subsamples Crop Type, Code Crop Scientific Name Crop Name Pest Type Pest Code Pest Scientific Name Pest Name Rating Timing Days After First/Last Appl. Treatment Appl. Interval Planting Interval Days After Emergence Data Entry Date				Jun-11-2025 PLANT, P COUPLA PLANT 0.25 M2 1 W, Weed SOLPT Solanum ptychan> West Indian nig> 30, 30 31 DP-1 23 DE-1 Jun-25-2025		Jun-11-2025 PLANT, P COUPLA PLANT 0.25 M2 1 W, Weed SOLPT Solanum ptychan> West Indian nig> 30, 30 31 DP-1 23 DE-1 Jun-25-2025		Jun-11-2025 PLANT, P COUPLA PLANT 0.25 M2 1 W, Weed IPOHE Ipomoea hederac> ivy-leaf mornin> 30, 30 31 DP-1 23 DE-1 Jun-25-2025		Jun-11-2025 PLANT, P COUPLA PLANT 0.25 M2 1 W, Weed IPOHE Ipomoea hederac> ivy-leaf mornin> 30, 30 31 DP-1 23 DE-1 Jun-25-2025		Jun-11-2025 PLANT, P COUPLA PLANT 0.25 M2 1 W, Weed SIDSP Sida spinosa Prickly sida 30, 30 31 DP-1 23 DE-1 Jun-25-2025	
Trt No.	Treatment Name	Rate	Appl Unit	Code	29*	30*	31*	32*	33*				
1	utc				1.5 -	0.5 -	0.5 -	0.3 -	3.8 b				
2	Metribuzin Intermoc Roundup Powermax 3 AMSOL	0.094 lb ai/a 0.89 lb ai/a 1.12 lb ai/a 2.5 % v/v	A B B B		0.3 -	0.0 -	0.8 -	0.0 -	4.8 b				
3	Metribuzin Intermoc Roundup Powermax 3 AMSOL	0.188 lb ai/a 0.89 lb ai/a 1.12 lb ai/a 2.5 % v/v	A B B B		0.5 -	0.3 -	0.5 -	0.8 -	2.5 b				
4	Metribuzin Intermoc Roundup Powermax 3 AMSOL	0.28 lb ai/a 0.89 lb ai/a 1.12 lb ai/a 2.5 % v/v	A B B B		0.3 -	0.0 -	0.5 -	0.8 -	11.0 a				
5	Metribuzin Intermoc Roundup Powermax 3 AMSOL	0.375 lb ai/a 0.89 lb ai/a 1.12 lb ai/a 2.5 % v/v	A B B B		0.3 -	0.5 -	0.8 -	0.3 -	3.0 b				
6	Metribuzin Intermoc Roundup Powermax 3 AMSOL	0.47 lb ai/a 0.89 lb ai/a 1.12 lb ai/a 2.5 % v/v	A B B B		0.8 -	0.5 -	0.5 -	1.8 -	1.3 b				
7	Metribuzin Intermoc Roundup Powermax 3 AMSOL	0.56 lb ai/a 0.89 lb ai/a 1.12 lb ai/a 2.5 % v/v	A B B B		1.3 -	0.5 -	0.8 -	0.0 -	0.3 b				
8	Metribuzin Intermoc Roundup Powermax 3 AMSOL	0.75 lb ai/a 0.89 lb ai/a 1.12 lb ai/a 2.5 % v/v	A B B B		0.3 -	2.0 -	1.5 -	0.3 -	0.3 b				

^aCalculated from residual.

The Ohio State University

MTZ Dose Response in Corn

Trial ID: 25MTZCORN

Protocol ID: 25MTZCORN Location: Western Branch G-6 Trial Year: 2025

Study Director: Sponsor Contact:

Investigator:

Rating Date		Jun-11-2025	Jun-11-2025	Jun-11-2025	Jun-11-2025	Jun-11-2025
Part Rated		PLANT, P	PLANT, P	PLANT, P	PLANT, P	PLANT, P
Rating Type		COUPLA	COUPLA	COUPLA	COUPLA	COUPLA
Rating Unit		PLANT	PLANT	PLANT	PLANT	PLANT
Sample Size		0.25 M2	0.25 M2	0.25 M2	0.25 M2	0.25 M2
Number of Subsamples		1	1	1	1	1
Crop Type, Code						
Crop Scientific Name						
Crop Name						
Pest Type		W, Weed	W, Weed	W, Weed	W, Weed	W, Weed
Pest Code		SOLPT	SOLPT	IPOHE	IPOHE	SIDSP
Pest Scientific Name		Solanum ptychan>	Solanum ptychan>	Ipomoea hederac>	Ipomoea hederac>	Sida spinosa
Pest Name		West Indian nig>	West Indian nig>	ivy-leaf mornin>	ivy-leaf mornin>	Prickly sida
Rating Timing						
Days After First/Last Appl.		30, 30	30, 30	30, 30	30, 30	30, 30
Treatment Appl. Interval						
Planting Interval		31 DP-1	31 DP-1	31 DP-1	31 DP-1	31 DP-1
Days After Emergence		23 DE-1	23 DE-1	23 DE-1	23 DE-1	23 DE-1
Data Entry Date		Jun-25-2025	Jun-25-2025	Jun-25-2025	Jun-25-2025	Jun-25-2025
Trt Treatment	Rate	29*	30*	31*	32*	33*
No. Name	Rate Unit Code					
9 Atrazine	1 lb ai/a A	0.0 -	0.0 -	2.8 -	1.0 -	5.5 ab
Intermoc	0.89 lb ai/a B					
Roundup Powermax 3	1.12 lb ai/a B					
AMSOL	2.5 % v/v B					
10 Intrava DX	0.255 lb ai/a A	0.3 -	0.3 -	1.8 -	0.8 -	2.3 b
Intermoc	0.89 lb ai/a B					
Roundup Powermax 3	1.12 lb ai/a B					
AMSOL	2.5 % v/v B					
11 Intrava DX	0.51 lb ai/a A	0.0 -	0.0 -	1.3 -	1.5 -	2.0 b
Intermoc	0.89 lb ai/a B					
Roundup Powermax 3	1.12 lb ai/a B					
AMSOL	2.5 % v/v B					
12 UTC		0.3 -	1.0 -	1.3 -	0.3 -	5.0 b
LSD P=.05		1.55	1.74	2.04	1.19	5.75
Standard Deviation		1.08	1.21	1.42	0.83	4.00
CV		234.9	263.37	133.63	132.36	115.53
Grand Mean		0.46	0.46	1.06	0.63	3.46
Levene's F^		0.666	0.613	0.963	2.944*	1.039
Levene's Prob(F)		0.761	0.805	0.495	0.007*	0.435
Rank X2		.	.	.	.	.
P(Rank X2)		.	.	.	.	.
Shapiro-Wilk^		0.818*	0.785*	0.8763*	0.9665	0.7917*
P(Shapiro-Wilk)^		0.0*	0.0*	0.0001*	0.1844	0.0*
Skewness^		2.0589*	1.9927*	1.4502*	0.6499	2.3618*
P(Skewness)^		0.0*	0.0*	0.0002*	0.0725	0.0*
Kurtosis^		7.5851*	10.1059*	4.7713*	1.4465*	12.6865*
P(Kurtosis)^		0.0*	0.0*	0.0*	0.043*	0.0*
Replicate F		2.229	5.357	4.255	0.203	5.508
Replicate Prob(F)		0.1033	0.0041	0.0120	0.8936	0.0035
Treatment F		0.778	0.899	0.927	1.893	2.172
Treatment Prob(F)		0.6593	0.5509	0.5269	0.0772	0.0421

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. 7: >=16.30 and <=23.69) are used for mean comparisons of treatment pairs with missing data.

* Adjusted means

Could not calculate LSD (% mean diff) or mean separation letters for columns 40 because error variance is 0.

Mean separation letters are 'na' (not applicable) when error variance is 0

^Calculated from residual.

The Ohio State University

MTZ Dose Response in Corn

Trial ID: 25MTZCORN

Protocol ID: 25MTZCORN Location: Western Branch G-6 Trial Year: 2025

Study Director: Sponsor Contact:

Investigator:

Rating Date	Jun-11-2025	Jun-11-2025	Jun-11-2025	Jun-11-2025	Jun-11-2025
Part Rated	PLANT, P	PLANT, P	PLANT, P	PLOT, P	PLOT, P
Rating Type	COUPLA	COUPLA	COUPLA	PHYSTU	PHYNEC
Rating Unit	PLANT	PLANT	PLANT	%	%
Sample Size	0.25 M2	0.25 M2	0.25 M2	1 PLOT	1 PLOT
Number of Subsamples	1	1	1	1	1
Crop Type, Code				C, ZEAMD	C, ZEAMD
Crop Scientific Name				Zea mays indent>	Zea mays indent>
Crop Name				Dent corn	Dent corn
Pest Type	W, Weed	W, Weed	W, Weed		
Pest Code	SIDSP	AMARE	AMARE		
Pest Scientific Name	Sida spinosa	Amaranthus retr>	Amaranthus retr>		
Pest Name	Prickly sida	Redroot pigweed	Redroot pigweed		
Rating Timing					
Days After First/Last Appl.	30, 30	30, 30	30, 30	30, 30	30, 30
Treatment Appl. Interval					
Planting Interval	31 DP-1	31 DP-1	31 DP-1	31 DP-1	31 DP-1
Days After Emergence	23 DE-1	23 DE-1	23 DE-1	23 DE-1	23 DE-1
Data Entry Date	Jun-25-2025	Jun-25-2025	Jun-25-2025	Jun-25-2025	Jun-25-2025
Trt Treatment	Rate	Rate	Rate	Rate	Rate
No. Name	Unit	Unit	Unit	Unit	Unit
	Code	Code	Code	Code	Code
1 utc	34*	35*	36*	37*	38*
2 Metribuzin 0.094 lb ai/a A	3.8 -	0.0 -	0.0 -	2.5 abc	0.0 -
Intermoc 0.89 lb ai/a B	2.8 -	0.0 -	0.0 -	1.5 bc	0.0 -
Roundup Powermax 3 1.12 lb ai/a B					
AMSOL 2.5 % v/v B					
3 Metribuzin 0.188 lb ai/a A	3.0 -	0.0 -	0.0 -	1.0 bc	0.0 -
Intermoc 0.89 lb ai/a B					
Roundup Powermax 3 1.12 lb ai/a B					
AMSOL 2.5 % v/v B					
4 Metribuzin 0.28 lb ai/a A	1.0 -	0.0 -	0.0 -	2.8 ab	0.8 -
Intermoc 0.89 lb ai/a B					
Roundup Powermax 3 1.12 lb ai/a B					
AMSOL 2.5 % v/v B					
5 Metribuzin 0.375 lb ai/a A	6.0 -	0.0 -	0.0 -	3.5 ab	0.0 -
Intermoc 0.89 lb ai/a B					
Roundup Powermax 3 1.12 lb ai/a B					
AMSOL 2.5 % v/v B					
6 Metribuzin 0.47 lb ai/a A	0.5 -	0.0 -	0.0 -	2.0 bc	0.0 -
Intermoc 0.89 lb ai/a B					
Roundup Powermax 3 1.12 lb ai/a B					
AMSOL 2.5 % v/v B					
7 Metribuzin 0.56 lb ai/a A	0.0 -	0.0 -	0.0 -	3.5 ab	0.3 -
Intermoc 0.89 lb ai/a B					
Roundup Powermax 3 1.12 lb ai/a B					
AMSOL 2.5 % v/v B					
8 Metribuzin 0.75 lb ai/a A	0.3 -	0.0 -	0.0 -	5.0 a	0.0 -
Intermoc 0.89 lb ai/a B					
Roundup Powermax 3 1.12 lb ai/a B					
AMSOL 2.5 % v/v B					

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. 7: >=16.30 and <=23.69) are used for mean comparisons of treatment pairs with missing data.

* Adjusted means

Could not calculate LSD (% mean diff) or mean separation letters for columns 40 because error variance is 0.

Mean separation letters are 'na' (not applicable) when error variance is 0

^Calculated from residual.

The Ohio State University

MTZ Dose Response in Corn

Trial ID: 25MTZCORN

Protocol ID: 25MTZCORN Location: Western Branch G-6 Trial Year: 2025

Study Director: Sponsor Contact:

Investigator:

Rating Date		Jun-11-2025	Jun-11-2025	Jun-11-2025	Jun-11-2025	Jun-11-2025
Part Rated		PLANT, P	PLANT, P	PLANT, P	PLOT, P	PLOT, P
Rating Type		COUPLA	COUPLA	COUPLA	PHYSTU	PHYNEC
Rating Unit		PLANT	PLANT	PLANT	%	%
Sample Size		0.25 M2	0.25 M2	0.25 M2	1 PLOT	1 PLOT
Number of Subsamples		1	1	1	1	1
Crop Type, Code					C, ZEAMD	C, ZEAMD
Crop Scientific Name					Zea mays indent>	Zea mays indent>
Crop Name					Dent corn	Dent corn
Pest Type		W, Weed	W, Weed	W, Weed		
Pest Code		SIDSP	AMARE	AMARE		
Pest Scientific Name		Sida spinosa	Amaranthus retr>	Amaranthus retr>		
Pest Name		Prickly sida	Redroot pigweed	Redroot pigweed		
Rating Timing						
Days After First/Last Appl.		30, 30	30, 30	30, 30	30, 30	30, 30
Treatment Appl. Interval						
Planting Interval		31 DP-1	31 DP-1	31 DP-1	31 DP-1	31 DP-1
Days After Emergence		23 DE-1	23 DE-1	23 DE-1	23 DE-1	23 DE-1
Data Entry Date		Jun-25-2025	Jun-25-2025	Jun-25-2025	Jun-25-2025	Jun-25-2025
Trt	Treatment	Rate	Appl			
No.	Name	Rate	Unit	Code		
34*						
35*						
36*						
37*						
38*						
9	Atrazine	1 lb ai/a	A			
	Intermoc	0.89 lb ai/a	B			
	Roundup Powermax 3	1.12 lb ai/a	B			
	AMSOL	2.5 % v/v	B			
2.3 -						
0.0 -						
0.0 -						
1.0 bc						
0.1 -						
10	Intrava DX	0.255 lb ai/a	A			
	Intermoc	0.89 lb ai/a	B			
	Roundup Powermax 3	1.12 lb ai/a	B			
	AMSOL	2.5 % v/v	B			
0.3 -						
0.5 -						
0.0 -						
1.8 bc						
0.0 -						
11	Intrava DX	0.51 lb ai/a	A			
	Intermoc	0.89 lb ai/a	B			
	Roundup Powermax 3	1.12 lb ai/a	B			
	AMSOL	2.5 % v/v	B			
0.3 -						
0.0 -						
0.0 -						
1.3 bc						
0.0 -						
12	UTC					
6.5 -						
1.3 -						
0.5 -						
0.0 c						
0.0 -						
LSD P=.05		4.93	0.89	0.42	2.52	0.67
Standard Deviation		3.42	0.62	0.29	1.75	0.47
CV		155.09	425.18	692.82	81.54	547.97
Grand Mean		2.21	0.15	0.04	2.15	0.09
Levene's F^		0.79	1.399	0.758	2.78*	0.755
Levene's Prob(F)		0.648	0.215	0.678	0.01*	0.68
Rank X2		.	.	.	.	.
P(Rank X2)		.	.	.	.	.
Shapiro-Wilk^		0.9141*	0.6525*	0.4863*	0.9725	0.6151*
P(Shapiro-Wilk)^		0.0018*	0.0*	0.0*	0.3148	0.0*
Skewness^		1.2666*	2.5929*	3.5949*	0.3006	3.1458*
P(Skewness)^		0.0008*	0.0*	0.0*	0.3997	0.0*
Kurtosis^		4.5696*	13.4458*	22.9943*	0.3297	17.7424*
P(Kurtosis)^		0.0*	0.0*	0.0*	0.6376	0.0*
Replicate F		3.337	0.921	1.000	1.876	0.828
Replicate Prob(F)		0.0311	0.4414	0.4051	0.1528	0.4881
Treatment F		1.763	1.473	1.000	2.486	0.903
Treatment Prob(F)		0.1023	0.1887	0.4671	0.0213	0.5484

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. 7: >=16.30 and <=23.69) are used for mean comparisons of treatment pairs with missing data.

* Adjusted means

Could not calculate LSD (% mean diff) or mean separation letters for columns 40 because error variance is 0.

Mean separation letters are 'na' (not applicable) when error variance is 0

^Calculated from residual.

MTZ Dose Response in Corn

Rating Date	Jun-11-2025	Jun-11-2025	Jun-11-2025	Jun-11-2025	Jun-11-2025
Part Rated	PLOT, P	PLOT, P	PLOT, P	PLOT, P	PLOT, P
Rating Type	PHYCHL	PHYLMA	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Sample Size	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1	1	1
Crop Type, Code	C, ZEAMD	C, ZEAMD			
Crop Scientific Name	Zea mays indent>	Zea mays indent>			
Crop Name	Dent corn	Dent corn			
Pest Type			W, Weed	W, Weed	W, Weed
Pest Code			AMBTR	SETFA	CHEAL
Pest Scientific Name			Ambrosia trifida	Setaria faberi	Chenopodium alb>
			Giant ragweed	Giant foxtail	common lambsqua>
Pest Name					
Rating Timing					
Days After First/Last Appl.	30, 30	30, 30	30, 30	30, 30	30, 30
Treatment Appl. Interval					
Planting Interval	31 DP-1	31 DP-1	31 DP-1	31 DP-1	31 DP-1
Days After Emergence	23 DE-1	23 DE-1	23 DE-1	23 DE-1	23 DE-1
Data Entry Date	Jun-25-2025	Jun-25-2025	Jun-25-2025	Jun-25-2025	Jun-25-2025

Trt No.	Treatment Name	Rate	Unit	Appl Code	39*	40*	41*	42*	43*
1	utc				0.0 -	0.0 na	23.8 bc	33.8 cd	21.3 de
2	Metribuzin	0.094	lb ai/a	A	0.0 -	0.0 na	38.8 b	40.0 bcd	36.3 cd
	Intermoc	0.89	lb ai/a	B					
	Roundup Powermax 3	1.12	lb ai/a	B					
	AMSOL	2.5	% v/v	B					
3	Metribuzin	0.188	lb ai/a	A	0.0 -	0.0 na	25.0 bc	31.3 d	50.0 bcd
	Intermoc	0.89	lb ai/a	B					
	Roundup Powermax 3	1.12	lb ai/a	B					
	AMSOL	2.5	% v/v	B					
4	Metribuzin	0.28	lb ai/a	A	0.0 -	0.0 na	48.8 ab	65.0 ab	75.0 ab
	Intermoc	0.89	lb ai/a	B					
	Roundup Powermax 3	1.12	lb ai/a	B					
	AMSOL	2.5	% v/v	B					
5	Metribuzin	0.375	lb ai/a	A	0.0 -	0.0 na	47.5 ab	60.0 abc	62.5 abc
	Intermoc	0.89	lb ai/a	B					
	Roundup Powermax 3	1.12	lb ai/a	B					
	AMSOL	2.5	% v/v	B					
6	Metribuzin	0.47	lb ai/a	A	0.3 -	0.0 na	40.0 b	42.5 bcd	86.3 a
	Intermoc	0.89	lb ai/a	B					
	Roundup Powermax 3	1.12	lb ai/a	B					
	AMSOL	2.5	% v/v	B					
7	Metribuzin	0.56	lb ai/a	A	0.0 -	0.0 na	46.3 ab	53.8 a-d	71.3 ab
	Intermoc	0.89	lb ai/a	B					
	Roundup Powermax 3	1.12	lb ai/a	B					
	AMSOL	2.5	% v/v	B					
8	Metribuzin	0.75	lb ai/a	A	0.0 -	0.0 na	72.5 a	76.3 a	86.3 a
	Intermoc	0.89	lb ai/a	B					
	Roundup Powermax 3	1.12	lb ai/a	B					
	AMSOL	2.5	% v/v	B					

^aCalculated from residual.

The Ohio State University

MTZ Dose Response in Corn

Trial ID: 25MTZCORN
 Protocol ID: 25MTZCORN Location: Western Branch G-6 Trial Year: 2025
 Study Director: Sponsor Contact:
 Investigator:

Rating Date		Jun-11-2025	Jun-11-2025	Jun-11-2025	Jun-11-2025	Jun-11-2025
Part Rated		PLOT, P	PLOT, P	PLOT, P	PLOT, P	PLOT, P
Rating Type		PHYCHL	PHYLMA	CONTRO	CONTRO	CONTRO
Rating Unit		%	%	%	%	%
Sample Size		1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples		1	1	1	1	1
Crop Type, Code		C, ZEAMD	C, ZEAMD			
Crop Scientific Name		Zea mays indent>	Zea mays indent>			
Crop Name		Dent corn	Dent corn			
Pest Type				W, Weed	W, Weed	W, Weed
Pest Code				AMBTR	SETFA	CHEAL
Pest Scientific Name				Ambrosia trifida	Setaria faberi	Chenopodium alb>
Pest Name				Giant ragweed	Giant foxtail	common lambsqua>
Rating Timing						
Days After First/Last Appl.		30, 30	30, 30	30, 30	30, 30	30, 30
Treatment Appl. Interval						
Planting Interval		31 DP-1	31 DP-1	31 DP-1	31 DP-1	31 DP-1
Days After Emergence		23 DE-1	23 DE-1	23 DE-1	23 DE-1	23 DE-1
Data Entry Date		Jun-25-2025	Jun-25-2025	Jun-25-2025	Jun-25-2025	Jun-25-2025
Trt Treatment	Rate	Appl				
No. Name	Rate	Unit Code	39*	40*	41*	42*
9 Atrazine	1 lb ai/a	A	0.0 -	0.0 na	27.5 bc	30.0 d
Intermoc	0.89 lb ai/a	B				
Roundup Powermax 3	1.12 lb ai/a	B				
AMSOL	2.5 % v/v	B				
10 Intrava DX	0.255 lb ai/a	A	0.0 -	0.0 na	40.0 b	42.5 bcd
Intermoc	0.89 lb ai/a	B				
Roundup Powermax 3	1.12 lb ai/a	B				
AMSOL	2.5 % v/v	B				
11 Intrava DX	0.51 lb ai/a	A	0.3 -	0.0 na	27.5 bc	45.0 bcd
Intermoc	0.89 lb ai/a	B				
Roundup Powermax 3	1.12 lb ai/a	B				
AMSOL	2.5 % v/v	B				
12 UTC			0.0 -	0.0 na	0.0 c	0.0 e
LSD P=.05			0.30	.	29.85	28.61
Standard Deviation			0.21	0.00	20.75	19.89
CV			497.27	0.0	56.91	45.9
Grand Mean			0.04	0.00	36.46	43.33
Levene's F^			0.793	.	0.745	1.697
Levene's Prob(F)			0.646	.	0.689	0.114
Rank X2			.	.	.	.
P(Rank X2)			.	.	.	.
Shapiro-Wilk^			0.6181*	.	0.9694	0.9707
P(Shapiro-Wilk)^			0.0*	.	0.241	0.2696
Skewness^			2.6516*	.	0.4473	0.2711
P(Skewness)^			0.0*	.	0.2123	0.4474
Kurtosis^			10.7845*	.	-0.1684	-0.7829
P(Kurtosis)^			0.0*	.	0.8097	0.2659
Replicate F			0.647	NaN	2.725	6.632
Replicate Prob(F)			0.5904	NaN	0.0599	0.0012
Treatment F			0.882	NaN	2.940	3.905
Treatment Prob(F)			0.5658	NaN	0.0081	0.0011

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. 7: >=16.30 and <=23.69) are used for mean comparisons of treatment pairs with missing data.

* Adjusted means

Could not calculate LSD (% mean diff) or mean separation letters for columns 40 because error variance is 0.

Mean separation letters are 'na' (not applicable) when error variance is 0

^Calculated from residual.

The Ohio State University

MTZ Dose Response in Corn

Trial ID: 25MTZCORN

Protocol ID: 25MTZCORN Location: Western Branch G-6 Trial Year: 2025

Study Director: Sponsor Contact:

Investigator:

Rating Date				Jun-11-2025	Jun-11-2025	Jun-11-2025	Jun-11-2025	Jun-11-2025
Part Rated				PLOT, P	PLOT, P	PLOT, P	PLOT, P	PLOT, P
Rating Type				CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit				%	%	%	%	%
Sample Size				1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples				1	1	1	1	1
Crop Type, Code								
Crop Scientific Name								
Crop Name								
Pest Type				W, Weed	W, Weed	W, Weed	W, Weed	W, Weed
Pest Code				ABUTH	SOLPT	IPHOE	SIDSP	AMARE
Pest Scientific Name				Abutilon theoph>	Solanum ptychan>	Ipomoea hederac>	Sida spinosa	Amaranthus retr>
Pest Name				velvetleaf	West Indian nig>	ivy-leaf mornin>	Prickly sida	Redroot pigweed
Rating Timing								
Days After First/Last Appl.				30, 30	30, 30	30, 30	30, 30	30, 30
Treatment Appl. Interval								
Planting Interval				31 DP-1	31 DP-1	31 DP-1	31 DP-1	31 DP-1
Days After Emergence				23 DE-1	23 DE-1	23 DE-1	23 DE-1	23 DE-1
Data Entry Date				Jun-25-2025	Jun-25-2025	Jun-25-2025	Jun-25-2025	Jun-25-2025
Trt Treatment	Rate	Rate	Appl	44*	45*	46*	47*	48*
No. Name	Rate	Unit	Code					
1 utc				27.5 cd	73.8 ab	70.0 ab	30.0 cd	100.0 a
2 Metribuzin	0.094 lb ai/a	A		50.0 bc	57.5 b	88.8 a	60.0 abc	100.0 a
Intermoc	0.89 lb ai/a	B						
Roundup Powermax 3	1.12 lb ai/a	B						
AMSOL	2.5 % v/v	B						
3 Metribuzin	0.188 lb ai/a	A		72.5 ab	80.0 ab	83.8 ab	68.8 ab	100.0 a
Intermoc	0.89 lb ai/a	B						
Roundup Powermax 3	1.12 lb ai/a	B						
AMSOL	2.5 % v/v	B						
4 Metribuzin	0.28 lb ai/a	A		80.0 a	83.8 ab	47.5 b	60.0 abc	97.5 ab
Intermoc	0.89 lb ai/a	B						
Roundup Powermax 3	1.12 lb ai/a	B						
AMSOL	2.5 % v/v	B						
5 Metribuzin	0.375 lb ai/a	A		80.0 a	83.8 ab	60.0 ab	52.5 bc	100.0 a
Intermoc	0.89 lb ai/a	B						
Roundup Powermax 3	1.12 lb ai/a	B						
AMSOL	2.5 % v/v	B						
6 Metribuzin	0.47 lb ai/a	A		92.5 a	81.3 ab	62.5 ab	78.8 ab	100.0 a
Intermoc	0.89 lb ai/a	B						
Roundup Powermax 3	1.12 lb ai/a	B						
AMSOL	2.5 % v/v	B						
7 Metribuzin	0.56 lb ai/a	A		88.8 a	81.3 ab	66.3 ab	71.3 ab	100.0 a
Intermoc	0.89 lb ai/a	B						
Roundup Powermax 3	1.12 lb ai/a	B						
AMSOL	2.5 % v/v	B						
8 Metribuzin	0.75 lb ai/a	A		92.3 a	66.3 ab	67.5 ab	90.0 a	100.0 a
Intermoc	0.89 lb ai/a	B						
Roundup Powermax 3	1.12 lb ai/a	B						
AMSOL	2.5 % v/v	B						

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. 7: >=16.30 and <=23.69) are used for mean comparisons of treatment pairs with missing data.

* Adjusted means

Could not calculate LSD (% mean diff) or mean separation letters for columns 40 because error variance is 0.

Mean separation letters are 'na' (not applicable) when error variance is 0

^Calculated from residual.

The Ohio State University

MTZ Dose Response in Corn

Trial ID: 25MTZCORN

Protocol ID: 25MTZCORN Location: Western Branch G-6 Trial Year: 2025

Study Director: Sponsor Contact:

Investigator:

Rating Date				Jun-11-2025	Jun-11-2025	Jun-11-2025	Jun-11-2025	Jun-11-2025
Part Rated				PLOT, P	PLOT, P	PLOT, P	PLOT, P	PLOT, P
Rating Type				CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit				%	%	%	%	%
Sample Size				1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples				1	1	1	1	1
Crop Type, Code								
Crop Scientific Name								
Crop Name								
Pest Type				W, Weed	W, Weed	W, Weed	W, Weed	W, Weed
Pest Code				ABUTH	SOLPT	IPHOE	SIDSP	AMARE
Pest Scientific Name				Abutilon theoph>	Solanum ptychan>	Ipomoea hederac>	Sida spinosa	Amaranthus retr>
Pest Name				velvetleaf	West Indian nig>	ivy-leaf mornin>	Prickly sida	Redroot pigweed
Rating Timing								
Days After First/Last Appl.				30, 30	30, 30	30, 30	30, 30	30, 30
Treatment Appl. Interval								
Planting Interval				31 DP-1	31 DP-1	31 DP-1	31 DP-1	31 DP-1
Days After Emergence				23 DE-1	23 DE-1	23 DE-1	23 DE-1	23 DE-1
Data Entry Date				Jun-25-2025	Jun-25-2025	Jun-25-2025	Jun-25-2025	Jun-25-2025
Trt Treatment				44*	45*	46*	47*	48*
No. Name								
Rate								
Unit								
Appl Code								
9 Atrazine	1 lb ai/a	A		23.8 cd	97.5 a	85.0 ab	67.5 ab	98.8 ab
Intermoc	0.89 lb ai/a	B						
Roundup Powermax 3	1.12 lb ai/a	B						
AMSOL	2.5 % v/v	B						
10 Intrava DX	0.255 lb ai/a	A		41.3 c	92.5 a	66.3 ab	73.8 ab	95.0 b
Intermoc	0.89 lb ai/a	B						
Roundup Powermax 3	1.12 lb ai/a	B						
AMSOL	2.5 % v/v	B						
11 Intrava DX	0.51 lb ai/a	A		76.3 ab	97.5 a	81.3 ab	66.3 ab	100.0 a
Intermoc	0.89 lb ai/a	B						
Roundup Powermax 3	1.12 lb ai/a	B						
AMSOL	2.5 % v/v	B						
12 UTC				0.0 d	0.0 c	0.0 c	0.0 d	0.0 c
LSD P=.05				29.68	32.11	40.61	33.01	4.40
Standard Deviation				20.63	22.32	28.23	22.95	3.06
CV				34.16	29.93	43.5	38.31	3.36
Grand Mean				60.40	74.58	64.90	59.90	90.94
Levene's F^				0.512	0.748	1.375	0.941	0.743
Levene's Prob(F)				0.882	0.687	0.227	0.514	0.691
Rank X2				.	.	.	.	.
P(Rank X2)				.	.	.	.	.
Shapiro-Wilk^				0.9388*	0.9625	0.9516*	0.9751	0.6781*
P(Shapiro-Wilk)^				0.0145*	0.1276	0.0465*	0.3946	0.0*
Skewness^				0.8895*	-0.5438	-0.807*	-0.3504	-2.9937*
P(Skewness)^				0.0154*	0.131	0.0271*	0.327	0.0*
Kurtosis^				1.1957	0.3535	0.5612	0.2064	17.1375*
P(Kurtosis)^				0.0921	0.6135	0.4236	0.7678	0.0*
Replicate F				3.419	6.604	1.013	11.022	1.243
Replicate Prob(F)				0.0285	0.0013	0.3992	0.0001	0.3099
Treatment F				9.025	5.534	2.819	4.347	351.516
Treatment Prob(F)				0.0001	0.0001	0.0105	0.0005	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. 7: >=16.30 and <=23.69) are used for mean comparisons of treatment pairs with missing data.

* Adjusted means

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Mean separation letters are 'na' (not applicable) when error variance is 0

^Calculated from residual.

The Ohio State University

MTZ Dose Response in Corn

Trial ID: 25MTZCORN

Protocol ID: 25MTZCORN Location: Western Branch G-6 Trial Year: 2025

Study Director: Sponsor Contact:

Investigator:

Rating Date	Jun-18-2025	Jun-18-2025	Jun-18-2025	Jun-18-2025
Part Rated	PLOT, P	PLOT, P	PLOT, P	PLOT, P
Rating Type	PHYSTU	PHYNEC	PHYCHL	PHYLMA
Rating Unit	%	%	%	%
Sample Size	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1	1
Crop Type, Code				
Crop Scientific Name				
Crop Name				
Pest Type				
Pest Code				
Pest Scientific Name				
Pest Name				
Rating Timing				
Days After First/Last Appl.	37, 7	37, 7	37, 7	37, 7
Treatment Appl. Interval				
Planting Interval	38 DP-1	38 DP-1	38 DP-1	38 DP-1
Days After Emergence	30 DE-1	30 DE-1	30 DE-1	30 DE-1
Data Entry Date	Jun-25-2025	Jun-25-2025	Jun-25-2025	Jun-25-2025
Trt Treatment	Rate	Appl		
No. Name	Rate	Unit	Code	
1 utc				
2 Metribuzin	0.094 lb ai/a	A		
Intermoc	0.89 lb ai/a	B		
Roundup Powermax 3	1.12 lb ai/a	B		
AMSOL	2.5 % v/v	B		
3 Metribuzin	0.188 lb ai/a	A		
Intermoc	0.89 lb ai/a	B		
Roundup Powermax 3	1.12 lb ai/a	B		
AMSOL	2.5 % v/v	B		
4 Metribuzin	0.28 lb ai/a	A		
Intermoc	0.89 lb ai/a	B		
Roundup Powermax 3	1.12 lb ai/a	B		
AMSOL	2.5 % v/v	B		
5 Metribuzin	0.375 lb ai/a	A		
Intermoc	0.89 lb ai/a	B		
Roundup Powermax 3	1.12 lb ai/a	B		
AMSOL	2.5 % v/v	B		
6 Metribuzin	0.47 lb ai/a	A		
Intermoc	0.89 lb ai/a	B		
Roundup Powermax 3	1.12 lb ai/a	B		
AMSOL	2.5 % v/v	B		
7 Metribuzin	0.56 lb ai/a	A		
Intermoc	0.89 lb ai/a	B		
Roundup Powermax 3	1.12 lb ai/a	B		
AMSOL	2.5 % v/v	B		
8 Metribuzin	0.75 lb ai/a	A		
Intermoc	0.89 lb ai/a	B		
Roundup Powermax 3	1.12 lb ai/a	B		
AMSOL	2.5 % v/v	B		

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. 7: >=16.30 and <=23.69) are used for mean comparisons of treatment pairs with missing data.

* Adjusted means

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^Calculated from residual.

The Ohio State University

MTZ Dose Response in Corn

Trial ID: 25MTZCORN

Protocol ID: 25MTZCORN Location: Western Branch G-6 Trial Year: 2025

Study Director: Sponsor Contact:

Investigator:

Rating Date	Jun-18-2025	Jun-18-2025	Jun-18-2025	Jun-18-2025
Part Rated	PLOT, P	PLOT, P	PLOT, P	PLOT, P
Rating Type	PHYSTU	PHYNEC	PHYCHL	PHYLMA
Rating Unit	%	%	%	%
Sample Size	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1	1
Crop Type, Code				
Crop Scientific Name				
Crop Name				
Pest Type				
Pest Code				
Pest Scientific Name				
Pest Name				
Rating Timing				
Days After First/Last Appl.	37, 7	37, 7	37, 7	37, 7
Treatment Appl. Interval				
Planting Interval	38 DP-1	38 DP-1	38 DP-1	38 DP-1
Days After Emergence	30 DE-1	30 DE-1	30 DE-1	30 DE-1
Data Entry Date	Jun-25-2025	Jun-25-2025	Jun-25-2025	Jun-25-2025
Trt Treatment	49*	50*	51*	52*
No. Name Rate Unit Appl Code				
9 Atrazine 1 lb ai/a A	2.3 bc	0.0 b	0.3 -	0.5 -
Intermoc 0.89 lb ai/a B				
Roundup Powermax 3 1.12 lb ai/a B				
AMSOL 2.5 % v/v B				
10 Intrava DX 0.255 lb ai/a A	0.3 c	0.0 b	0.5 -	0.0 -
Intermoc 0.89 lb ai/a B				
Roundup Powermax 3 1.12 lb ai/a B				
AMSOL 2.5 % v/v B				
11 Intrava DX 0.51 lb ai/a A	0.0 c	0.0 b	0.5 -	0.0 -
Intermoc 0.89 lb ai/a B				
Roundup Powermax 3 1.12 lb ai/a B				
AMSOL 2.5 % v/v B				
12 UTC	0.0 c	0.0 b	0.0 -	0.0 -
LSD P=.05	4.25	0.58	0.98	0.66
Standard Deviation	2.95	0.40	0.68	0.46
CV	116.18	190.33	110.51	359.7
Grand Mean	2.54	0.21	0.62	0.13
Levene's F^	0.539	1.17	1.428	0.603
Levene's Prob(F)	0.863	0.342	0.204	0.813
Rank X2	.	.	.	.
P(Rank X2)	.	.	.	.
Shapiro-Wilk^	0.9338*	0.7973*	0.9636	0.7788*
P(Shapiro-Wilk)^	0.0095*	0.0*	0.1496	0.0*
Skewness^	0.6831	1.7174*	0.7212*	1.8331*
P(Skewness)^	0.0595	0.0*	0.0495*	0.0*
Kurtosis^	1.915*	5.6326*	0.8078	4.4623*
P(Kurtosis)^	0.0083*	0.0*	0.2561	0.0*
Replicate F	5.591	0.513	0.744	1.190
Replicate Prob(F)	0.0033	0.6760	0.5338	0.3293
Treatment F	2.585	4.641	1.797	0.748
Treatment Prob(F)	0.0172	0.0003	0.0965	0.6864

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. 7: >=16.30 and <=23.69) are used for mean comparisons of treatment pairs with missing data.

* Adjusted means

Could not calculate LSD (% mean diff) or mean separation letters for columns 40 because error variance is 0.

Mean separation letters are 'na' (not applicable) when error variance is 0

^Calculated from residual.

The Ohio State University

MTZ Dose Response in Corn

Trial ID: 25MTZCORN

Protocol ID: 25MTZCORN Location: Western Branch G-6 Trial Year: 2025

Study Director: Sponsor Contact:

Investigator:

Part Rated

PLOT = plot

PLANT = plant

C = Crop is Part Rated

P = Pest is Part Rated

Rating Type

PHYNEC = phytotoxicity - necrosis /burn

PHYLMA = phytotoxicity - leaf malformation

CONTRO = control / burndown or knockdown

STAOBJ = stand - objective (based on counts)

PHYCHL = phytotoxicity - chlorosis

PHYSTU = phytotoxicity - stunting

COUPLA = count - plant / emergence - objective

Rating Unit

%, 0, 100, = percent

MROW, , , = meter of row

PLANT, , , = plant

PLOT = total plot

m = meter

M2 = square meter

Crop Type, Code

C = EPPO species (Bayer) codes

ZEAMD, BCOR, Zea mays indentata, Dent corn = US

Pest Type

W, Weed = Weed or volunteer crop

Pest Code

AMBTR, Ambrosia trifida, Giant ragweed = US

SETFA, Setaria faberi, Giant foxtail = US

ABUTH, Abutilon theophrasti, velvetleaf = US

CHEAL, Chenopodium album, common lambsquarters = US

IPOHE, Ipomoea hederacea, ivy-leaf morning glory = US

AMARE, Amaranthus retroflexus, Redroot pigweed = US

SOLPS, Solanum physalifolium, hairy nightshade = US

SOLPT, Solanum ptychanthum, West Indian nightshade = US

SIDSP, Sida spinosa, Prickly sida = US

Planting Interval

17 DP-1 = 1 ZEAMX May-11-2025

22 DP-1 = 1 ZEAMX May-11-2025

24 DP-1 = 1 ZEAMX May-11-2025

31 DP-1 = 1 ZEAMX May-11-2025

38 DP-1 = 1 ZEAMX May-11-2025