

The Ohio State University

Two-pass corn programs with Maverick POST

Ceres Trial ID: VUSA2024 Ceres Protocol ID: VUSA2024MAVERICHMD68.02

Location:

Project ID: 202042

Study Director: KOHRT, JONATHON Sponsor Contact: Affiliate Restricted:

Investigator:

Crop Description

Crop 1: ZEAMX Zea mays	Corn	BBCH Scale: BCOR
Entry Date: Apr-24-2024	Stage Scale: BBCH	
Variety: P10477Q	Seed Size: 1725 S/LB	
Attributes: glyphosate, glufosinate tolerant		
Seed Lot No: W3CON13029-N	Maturity Group: 110	
% Germination: 95	Seed Source: Pioneer	
	Seed Treatment Products: LumiGen, Lumisure 1250	
Planting Date: Apr-22-2024	Planting Rate: 32097 S/A	
Depth: 1.5 IN	Planting Method: PLANTD	planted
Rows per Plot: 4	Soil Moisture: SLIDRY	slightly dry
Row Spacing: 30 IN	Emergence Date: May-2-2024	
Soil Temperature: 60 F	Planting Equipment: FPP	finger pickup planter
Seed Bed: MEDIUM medium		

Pest Description

Pest 1 Type: W Code: SETFA Setaria faberi	Entry Date: May-20-2024
Common Name: Foxtail, Giant	Stage Scale: BBCH
Pest 2 Type: W Code: AMBTR Ambrosia trifida	Entry Date: May-20-2024
Common Name: Ragweed, Giant	Stage Scale: BBCH
Pest 3 Type: W Code: CHEAL Chenopodium album	Entry Date: May-20-2024
Common Name: Lambsquarters, Common	Stage Scale: BBCH
Pest 4 Type: W Code: AMARE Amaranthus retroflexus	Entry Date: May-20-2024
Common Name: Rough pigweed	Stage Scale: BBCH
Pest 5 Type: W Code: ABUTH Abutilon theophrasti	Entry Date: May-20-2024
Common Name: Velvetleaf	Stage Scale: BBCH
Pest 6 Type: W Code: HIBTR Hibiscus trionum	Entry Date: May-20-2024
Common Name: Mallow, Venice	Stage Scale: BBCH
Pest 7 Type: W Code: POLPY Persicaria pensylvanica	Entry Date: May-21-2024
Common Name: Pennsylvania smartweed	Stage Scale: BBCH
Pest 8 Type: W Code: IPOHE Ipomoea hederacea	Entry Date: May-21-2024
Common Name: Ivyleaf morningglory	Stage Scale: BBCH

Site and Design

Treated Plot Width: 6.67 FT	Tillage Type: CONTIL conventional-till
Treated Plot Length: 30 FT	Study Design: RACOBL Randomized Complete Block (RCB)
Treated Plot Area: 200.1 FT ²	
Replications: 4	Treatments: 14 Plots: 56
Distance between Blocks: 1 FT	
Distance between 'Plot' Experimental Units: 0.5 FT	

Soil Description

Description Name: E-1

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale	ZEAMX, BCOR	ZEAMX, BCOR
Stage Scale Used	BBCH	BBCH
Stage Majority	14	14
Stage Minimum	14	14
Stage Maximum	14	14
Height Average	10 IN	10 IN
Height Minimum, Maximum	10, 10	10, 10

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Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale	SETFA, W, BBCH	SETFA, W, BBCH
Stage Majority		12
Stage Minimum		11
Stage Maximum		13
Height Average		1 IN
Height Minimum, Maximum		1, 3
Relative Density	HIGH	
Density Average		37 m2
Density Minimum, Maximum	12, 440	
Pest 2 Code, Type, Scale	AMBTR, W, BBCH	AMBTR, W, BBCH
Stage Majority		16
Stage Minimum		14
Stage Maximum		18
Height Average		4 IN
Height Minimum, Maximum		4, 6
Relative Density	MEDIUM	
Density Average		2 m2
Density Minimum, Maximum	0, 24	
Pest 3 Code, Type, Scale	CHEAL, W, BBCH	CHEAL, W, BBCH
Relative Density	MEDIUM	
Density Average		58.25 m2
Density Minimum, Maximum	20, 632	
Pest 4 Code, Type, Scale	AMARE, W, BBCH	AMARE, W, BBCH
Pest 5 Code, Type, Scale	ABUTH, W, BBCH	ABUTH, W, BBCH
Relative Density	MEDIUM	
Density Average		0.75 m2
Density Minimum, Maximum	0, 8	
Pest 6 Code, Type, Scale	HIBTR, W, BBCH	HIBTR, W, BBCH
Pest 7 Code, Type, Scale	POLPY, W, BBCH	POLPY, W, BBCH
Stage Majority		16
Stage Minimum		14
Stage Maximum		18
Height Average		2 IN
Height Minimum, Maximum		1, 3
Relative Density	MEDIUM	
Density Average		1 m2
Density Minimum, Maximum	0, 16	
Pest 8 Code, Type, Scale	IPOHE, W, BBCH	IPOHE, W, BBCH
Stage Majority		14
Stage Minimum		12
Stage Maximum		14

Application Equipment

	A	B
Equipment Type	PSHCAP	
Operation Pressure	48 PSI	
Nozzle Type	TTI 11001	
Nozzle Spacing	18.0 IN	
Nozzle Count	4	
Spray Swath	6.67 FT	
Boom Length	6.67 FT	
Boom Height	20.0 IN	
Ground Speed	3 MPH	
Carrier	WATER	
Application Amount	15 GAL/AC	
Mix Size	1.5 L	
Propellant	COMCO2	

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Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Appl Unit	Appl Code	Appl Timing	Rep				Notes
									1	2	3	4	
1	UNTREATED CHECK -UNTREATED CHECK		0 NA	NA					101	212	309	405	
2	BICEP II MAGNUM -ATRAZINE -S-METOLACHLOR(W/BENOXACOR) HALEX GT -GLYPHOSATE-ACID -MESOTRIONE -S-METOLACHLOR NIS -SURFACTANT DRY AMMONIUM SULFATE -AMMONIUM SULFATE	5.5 2.4 3.1 4.39 2.090476 0.2090476 2.090476 100 100 100 100	LBAI/GAL LBAI/GAL LBAI/GAL LBAI/GAL LBAI/GAL LBAI/GAL LBAI/GAL %W/W %W/W %W/W %W/W	SC SC EC EC SL SG		1.8 qt/a 0.785 1.01 3.6 pt/a 1.71 0.171 1.71 0.25 % v/v 0.05012999 3 lb/a 30	A A B B B B B B B B	PREPRE PREPRE POSPOS POSPOS POSPOS POSPOS POSPOS POSPOS POSPOS POSPOS	102	210	313	403	
3	BICEP II MAGNUM -ATRAZINE -S-METOLACHLOR(W/BENOXACOR) MAVERICK HERBICIDE -CLOPYRALID -MESOTRIONE -PYROXASULFONE ROUNDUP POWER MAX 3(SALT) -GLYPHOSATE-POT(SALT) NIS -SURFACTANT DRY AMMONIUM SULFATE -AMMONIUM SULFATE	5.5 2.4 3.1 2.04 0.5235132 0.8258095 0.6906771 5.88 5.88 100 100 100 100	LBAI/GAL LBAI/GAL LBAI/GAL LBAI/GAL LBAI/GAL LBAI/GAL LBAI/GAL LBAI/GAL LBAI/GAL %W/W %W/W %W/W %W/W	SC SC SC SC SL SL SL SL SG		1.8 qt/a 0.785 1.01 14 fl oz/a 3.6 5.67 4.74 1 lb ai/a 1 0.25 % v/v 0.05012999 3 lb/a 30	A A B B B B B B B B B B	PREPRE PREPRE POSPOS POSPOS POSPOS POSPOS POSPOS POSPOS POSPOS POSPOS POSPOS POSPOS	103	214	310	404	
4	HARNESS XTRA 5.6 L -ACETOCHLOR -ATRAZINE KYRO -ACETOCHLOR -CLOPYRALID -TOPRAMEZONE ROUNDUP POWER MAX 3(SALT) -GLYPHOSATE-POT(SALT) NIS -SURFACTANT DRY AMMONIUM SULFATE -AMMONIUM SULFATE	5.6 3.1 2.5 3.07 2.777286 0.2467589 0.04595509 5.88 5.88 100 100 100 100	LBAI/GAL LBAI/GAL LBAI/GAL LBAI/GAL LBAI/GAL LBAI/GAL LBAI/GAL LBAI/GAL LBAI/GAL %W/W %W/W %W/W %W/W	SC SC ZC ZC ZC ZC ZC SL SL SL SL SG		2 qt/a 1.11 0.89 45 fl oz/a 40.7 3.6 0.674 1 lb ai/a 1 0.25 % v/v 0.05012999 3 lb/a 30	A A B B B B B B B B B B	PREPRE PREPRE POSPOS POSPOS POSPOS POSPOS POSPOS POSPOS POSPOS POSPOS POSPOS POSPOS	104	207	306	411	
5	HARNESS XTRA 5.6 L -ACETOCHLOR -ATRAZINE MAVERICK HERBICIDE -CLOPYRALID -MESOTRIONE -PYROXASULFONE ROUNDUP POWER MAX 3(SALT) -GLYPHOSATE-POT(SALT) NIS -SURFACTANT DRY AMMONIUM SULFATE -AMMONIUM SULFATE	5.6 3.1 2.5 2.04 0.5235132 0.8258095 0.6906771 5.88 5.88 100 100 100 100	LBAI/GAL LBAI/GAL LBAI/GAL LBAI/GAL LBAI/GAL LBAI/GAL LBAI/GAL LBAI/GAL LBAI/GAL %W/W %W/W %W/W %W/W	SC SC SC SC SC SC SC SL SL SL SL SG		2 qt/a 1.11 0.89 14 fl oz/a 3.6 5.67 4.74 1 lb ai/a 1 0.25 % v/v 0.05012999 3 lb/a 30	A A B B B B B B B B B B	PREPRE PREPRE POSPOS POSPOS POSPOS POSPOS POSPOS POSPOS POSPOS POSPOS POSPOS POSPOS	105	206	314	413	
6	VERDICT(DIMETHENAM+SAFLUFENAC) -DIMETHENAMID-P -SAFLUFENACIL ARMEZON PRO -DIMETHENAMID-P -TOPRAMEZONE ROUNDUP POWER MAX 3(SALT) -GLYPHOSATE-POT(SALT) NIS -SURFACTANT DRY AMMONIUM SULFATE -AMMONIUM SULFATE	5.57 5 0.57 5.35 5.25 0.1 5.88 5.88 100 100 100 100	LBAI/GAL LBAI/GAL LBAI/GAL LBAI/GAL LBAI/GAL LBAI/GAL LBAI/GAL LBAI/GAL LBAI/GAL %W/W %W/W %W/W %W/W	EC EC EC EC EC EC SL SL SL SL SG		12 fl oz/a 10.8 1.23 14 fl oz/a 13.7 0.262 1 lb ai/a 1 0.25 % v/v 0.05012999 3 lb/a 30	A A B B B B B B B B B B	PREPRE PREPRE POSPOS POSPOS POSPOS POSPOS POSPOS POSPOS POSPOS POSPOS POSPOS POSPOS	106	213	302	414	

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Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit	Appl Code	Appl Timing	Rep 1	Rep 2	Rep 3	Rep 4	Notes
7	VERDICT(DIMETHENAM+SAFLUFENAC)	5.57	LBAI/GAL	EC	12 fl oz/a	A	PREPRE		107	205	308	410	
	-DIMETHENAMID-P	5			10.8								
	-SAFLUFENACIL	0.57			1.23								
	MAVERICK HERBICIDE	2.04	LBAI/GAL	SC	14 fl oz/a	B	POSPOS						
	-CLOPYRALID	0.5235132			3.6								
	-MESOTRIONE	0.8258095			5.67								
	-PYROXASULFONE	0.6906771			4.74								
	ROUNDUP POWER MAX 3(SALT)	5.88	LBAI/GAL	SL	1 lb ai/a	B	POSPOS						
	-GLYPHOSATE-POT(SALT)	5.88			1								
	NIS	100	%W/W	SL	0.25 % v/v	B	POSPOS						
	-SURFACTANT	100			0.05012999								
	DRY AMMONIUM SULFATE	100	%W/W	SG	3 lb/a	B	POSPOS						
	-AMMONIUM SULFATE	100			30								
8	RESICORE XL	3.26	LBAI/GAL	ZC	1.4 qt/a	A	PREPRE		108	204	312	406	
	-ACETOCHLOR	2.8			1.2								
	-CLOPYRALID	0.19			0.082								
	-MESOTRIONE	0.27			0.116								
	RESICORE XL	3.26	LBAI/GAL	ZC	1.4 qt/a	B	POSPOS						
	-ACETOCHLOR	2.8			1.2								
	-CLOPYRALID	0.19			0.082								
	-MESOTRIONE	0.27			0.116								
	ROUNDUP POWER MAX 3(SALT)	5.88	LBAI/GAL	SL	1 lb ai/a	B	POSPOS						
	-GLYPHOSATE-POT(SALT)	5.88			1								
	NIS	100	%W/W	SL	0.25 % v/v	B	POSPOS						
	-SURFACTANT	100			0.05012999								
	DRY AMMONIUM SULFATE	100	%W/W	SG	3 lb/a	B	POSPOS						
	-AMMONIUM SULFATE	100			30								
9	ACURON HERBICIDE	3.44	LBAI/GAL	SC	1.5 qt/a	A	PREPRE		109	203	301	412	
	-ATRAZINE	1			0.436								
	-BICYCLOPYRONE	0.06			0.0262								
	-MESOTRIONE	0.24			0.105								
	-S-METOLACHLOR	2.14			0.93								
	ACURON HERBICIDE	3.44	LBAI/GAL	SC	1.5 qt/a	B	POSPOS						
	-ATRAZINE	1			0.436								
	-BICYCLOPYRONE	0.06			0.0262								
	-MESOTRIONE	0.24			0.105								
	-S-METOLACHLOR	2.14			0.93								
	ROUNDUP POWER MAX 3(SALT)	5.88	LBAI/GAL	SL	1 lb ai/a	B	POSPOS						
	-GLYPHOSATE-POT(SALT)	5.88			1								
	NIS	100	%W/W	SL	0.25 % v/v	B	POSPOS						
	-SURFACTANT	100			0.05012999								
	DRY AMMONIUM SULFATE	100	%W/W	SG	3 lb/a	B	POSPOS						
	-AMMONIUM SULFATE	100			30								
10	MAVERICK HERBICIDE	2.04	LBAI/GAL	SC	18 fl oz/a	A	PREPRE		110	211	305	401	
	-CLOPYRALID	0.5235132			4.6								
	-MESOTRIONE	0.8258095			7.3								
	-PYROXASULFONE	0.6906771			6.1								
	MAVERICK HERBICIDE	2.04	LBAI/GAL	SC	14 fl oz/a	B	POSPOS						
	-CLOPYRALID	0.5235132			3.6								
	-MESOTRIONE	0.8258095			5.67								
	-PYROXASULFONE	0.6906771			4.74								
	ROUNDUP POWER MAX 3(SALT)	5.88	LBAI/GAL	SL	1 lb ai/a	B	POSPOS						
	-GLYPHOSATE-POT(SALT)	5.88			1								
	NIS	100	%W/W	SL	0.25 % v/v	B	POSPOS						
	-SURFACTANT	100			0.05012999								
	DRY AMMONIUM SULFATE	100	%W/W	SG	3 lb/a	B	POSPOS						
	-AMMONIUM SULFATE	100			30								
11	ATRAZINE	4	LBAI/GAL	SC	1.5 lb ai/a	A	PREPRE		111	209	304	407	
	-ATRAZINE	4			1.5								
	MAVERICK HERBICIDE	2.04	LBAI/GAL	SC	14 fl oz/a	B	POSPOS						
	-CLOPYRALID	0.5235132			3.6								
	-MESOTRIONE	0.8258095			5.67								
	-PYROXASULFONE	0.6906771			4.74								
	ATRAZINE	4	LBAI/GAL	SC	0.5 lb ai/a	B	POSPOS						

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	-ATRAZINE	4			0.5								
	ROUNDUP POWER MAX 3(SALT)	5.88	LBAI/GAL	SL		1 lb ai/a	B	POSPOS					
	-GLYPHOSATE-POT(SALT)	5.88			1								
	NIS	100	%W/W	SL	0.25	% v/v	B	POSPOS					
	-SURFACTANT	100			0.05012999								
	DRY AMMONIUM SULFATE	100	%W/W	SG		3 lb/a	B	POSPOS					
	-AMMONIUM SULFATE	100			30								
12	ATRAZINE	4	LBAI/GAL	SC		1 lb ai/a	A	PREPRE	112	202	303	408	
	-ATRAZINE	4			1								
	PERPETUO	2.3	LBAI/GAL	SC		6 fl oz/a	A	PREPRE					
	MAVERICK HERBICIDE	2.04	LBAI/GAL	SC		14 fl oz/a	B	POSPOS					
	-CLOPYRALID	0.5235132			3.6								
	-MESOTRIONE	0.8258095			5.67								
	-PYROXASULFONE	0.6906771			4.74								
	ATRAZINE	4	LBAI/GAL	SC		0.5 lb ai/a	B	POSPOS					
	-ATRAZINE	4			0.5								
	ROUNDUP POWER MAX 3(SALT)	5.88	LBAI/GAL	SL		1 lb ai/a	B	POSPOS					
	-GLYPHOSATE-POT(SALT)	5.88			1								
	NIS	100	%W/W	SL	0.25	% v/v	B	POSPOS					
	-SURFACTANT	100			0.05012999								
	DRY AMMONIUM SULFATE	100	%W/W	SG		3 lb/a	B	POSPOS					
	-AMMONIUM SULFATE	100			30								
13	MAVERICK HERBICIDE	2.04	LBAI/GAL	SC		14 fl oz/a	A	PREPRE	113	208	307	409	
	-CLOPYRALID	0.5235132			3.6								
	-MESOTRIONE	0.8258095			5.67								
	-PYROXASULFONE	0.6906771			4.74								
	ATRAZINE	4	LBAI/GAL	SC		1 lb ai/a	A	PREPRE					
	-ATRAZINE	4			1								
	PERPETUO	2.3	LBAI/GAL	SC		6 fl oz/a	A	PREPRE					
	MAVERICK HERBICIDE	2.04	LBAI/GAL	SC		14 fl oz/a	B	POSPOS					
	-CLOPYRALID	0.5235132			3.6								
	-MESOTRIONE	0.8258095			5.67								
	-PYROXASULFONE	0.6906771			4.74								
	ATRAZINE	4	LBAI/GAL	SC		0.5 lb ai/a	B	POSPOS					
	-ATRAZINE	4			0.5								
	ACCENT Q	54.5	%W/W	WG		0.9 oz/a	B	POSPOS					
	-NICOSULFURON	54.5			9								
	COC	100	%W/W	EC		1 % v/v	B	POSPOS					
	-PETROLEUM OIL CONCENTRATE	100			0.20052								
	DRY AMMONIUM SULFATE	100	%W/W	SG		3 lb/a	B	POSPOS					
	-AMMONIUM SULFATE	100			30								
14	ATRAZINE	4	LBAI/GAL	SC		1.5 lb ai/a	A	PREPRE	114	201	311	402	
	-ATRAZINE	4			1.5								
	MAVERICK HERBICIDE	2.04	LBAI/GAL	SC		14 fl oz/a	B	POSPOS					
	-CLOPYRALID	0.5235132			3.6								
	-MESOTRIONE	0.8258095			5.67								
	-PYROXASULFONE	0.6906771			4.74								
	NIS	100	%W/W	SL	0.25	% v/v	B	POSPOS					
	-SURFACTANT	100			0.05012999								
	DRY AMMONIUM SULFATE	100	%W/W	SG		3 lb/a	B	POSPOS					
	-AMMONIUM SULFATE	100			30								

Sort Order: Replicate 1