

Ohio State University Horticulture and Crop Science

Preemergence fb Postemergence Weed Control in Corn 3

Title No. 2:
Trial ID: 10PRPOC3 Protocol ID: 10PRPOC3
Location: WESTERN BRANCH F-7 Study Director: Anthony F. Dobbels
Project ID: Investigator: Dr. Mark M. Loux
Sponsor Contact:

General Trial Information

Study Director: Anthony F. Dobbels **Title:** Research Specialist
Investigator: Dr. Mark M. Loux **Title:** Professor

Trial Location

City: South Charleston **Latitude of LL Corner °:** 39.86018 N
State/Prov.: Ohio **Longitude of LL Corner °:** 83.67088 W
Postal Code: 45368 **Altitude of LL Corner, Unit:** 1104.00 FT
Country: USA

Personnel

Study Director: Anthony F. Dobbels **Title:** Research Specialist
Affiliation: The Ohio State University
Address: 7721 South Charleston Pike
Location: South Charleston OH
Postal Code: 45368 **E-mail:** dobbels.1@osu.edu
Investigator: Dr. Mark M. Loux **Title:** Professor
Affiliation: The Ohio State University
Address: 222 Kottman Hall, 2021 Coffey Road
Location: Columbus OH
Postal Code: 43210 **E-mail:** loux.1@osu.edu

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: SEED CONSULTANTS 11HQ38
BBCH Scale: BCOR
Planting Method: SEEDED seeded
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: SMOOTH smooth
Soil Moisture: DRY dry
Harvest Date: 9/14/10
Harvested Width, Unit: 5 FT
% Standard Moisture: 15.5
Weighing Equipment: HARVEST MASTER 401
Description: RR/LL
Planting Date: 4/20/10
Rate, Unit: 32097 S/A
Soil Temperature, Unit: 55 F
Emergence Date: 5/3/10
Harvest Equipment: MASSEY 8 XP
Harvested Length, Unit: 30 FT
Moisture Meter: HARVEST MASTER

Pest Description

Pest 1 Type: W **Code:** SETFA **Setaria faberi**
Common Name: Giant foxtail
Pest 2 Type: W **Code:** AMBEL **Ambrosia artemisiifolia**
Common Name: Common ragweed
Pest 3 Type: W **Code:** AMBTR **Ambrosia trifida**
Common Name: Giant ragweed
Pest 4 Type: W **Code:** ABUTH **Abutilon theophrasti**
Common Name: Velvetleaf
Pest 5 Type: W **Code:** CHEAL **Chenopodium album**
Common Name: Common lambsquarters
Pest 6 Type: W **Code:** AMARE **Amaranthus retroflexus**
Common Name: Redroot pigweed
Pest 7 Type: W **Code:** POLPY **Polygonum pensylvanicum**
Common Name: Pennsylvania smartweed

Site and Design

Plot Width, Unit: 6.67 FT **Site Type:** FIELD field
Plot Length, Unit: 30 FT **Experimental Unit:** 1 PLOT plot
Plot Area, Unit: 200.1 FT2 **Tillage Type:** CONTIL conventional-till
Replications: 3 **Study Design:** RACOB Randomized Complete Block (RCB)
Untreated Arrangement: INCLUDED single control randomized in each block

Ohio State University Horticulture and Crop Science

Soil Description

Description Name: F-7 East
 % OM: 1.8 Texture: SIL silt loam
 pH: 6.1 Soil Name: Crosby
 CEC: 16 Fert. Level: G good
 Soil Drainage: G good

Application Description

	A	B
Application Date:	4/20/10	5/25/10
Time of Day:	3:00 P.M.	9:30 A.M.
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	POST
Application Placement:	BROSOI	BROFOL
Applied By:	Loux	McCormick
Air Temperature, Unit:	64 F	69 f
% Relative Humidity:	32	79
Wind Velocity, Unit:	3 MPH	7 mph
Wind Direction:	N	E
Dew Presence (Y/N):	N no	N no
Soil Temperature, Unit:	58 F	64 F
Soil Moisture:	DRY	NORMAL
% Cloud Cover:	15	40
Next Rain Occurred On:	6/24/10	5/31/10

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		14 100
Height, Unit:		9 IN

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	SETFA W	SETFA W
Stage Majority, Percent:		13 100
Height, Unit:		5 IN
Height Minimum, Maximum:		4 6
Density, Unit:		40 M2
Pest 2 Code, Type, Scale:	AMBEL W	AMBEL W
Stage Majority, Percent:		14 100
Height, Unit:		2 IN
Height Minimum, Maximum:		1 2
Pest 3 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:		16 100
Height, Unit:		4 IN
Height Minimum, Maximum:		3 4
Density, Unit:		4 M2
Pest 4 Code, Type, Scale:	ABUTH W	ABUTH W
Stage Majority, Percent:		15 90
Stage Minimum, Percent:		14 10
Stage Maximum, Percent:		15 90
Height, Unit:		2 IN
Density, Unit:		4 M2
Pest 5 Code, Type, Scale:	CHEAL W	CHEAL W
Stage Majority, Percent:		16 100
Height, Unit:		2 IN
Height Minimum, Maximum:		2 3
Density, Unit:		34.4 M2
Pest 6 Code, Type, Scale:	AMARE W	AMARE W
Stage Majority, Percent:		15 100
Height, Unit:		1 IN
Height Minimum, Maximum:		0.5 1
Pest 7 Code, Type, Scale:	POLPY W	POLPY W
Stage Majority, Percent:		13 80
Stage Minimum, Percent:		13 80
Stage Maximum, Percent:		14 20
Height, Unit:		2 IN
Height Minimum, Maximum:		2 3
Density, Unit:		5.2 M2

Ohio State University Horticulture and Crop Science

Application Equipment

	A	B
Appl. Equipment:	6 foot boom	6 foot boom
Equipment Type:	SPRBAC	SPRBAC
Operating Pressure, Unit:	53 PSI	53 PSI
Nozzle Type:	TEEJET DG	TEEJET DG
Nozzle Size:	8002	8002
Nozzle Spacing, Unit:	18 IN	18 IN
Boom Length, Unit:	6 FT	6 FT
Boom Height, Unit:	20 IN	20 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	20 GPA	20 GPA
Mix Size, Unit:	0.33 Gallons	0.33 Gallons
Propellant:	CO2	CO2

Ohio State University Horticulture and Crop Science

Pest Code	SETFA	AMBEL	AMBTR	CHEAL	ABUTH	POLPY	ZEAMX	ZEAMX	SETFA					
Crop Code														
Rating Date	5/25/10	5/25/10	5/25/10	5/25/10	5/25/10	5/25/10	6/1/10	6/7/10	6/7/10					
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN	PHYGEN	CONTRO					
Rating Unit	%	%	%	%	%	%	%	%	%					
Trt-Eval Interval	AT POST	AT POST	AT POST	AT POST	AT POST	AT POST	7 DA-B	13 DA-B	13 DA-B					
Plant-Eval Interval	35 DP-1	35 DP-1	35 DP-1	35 DP-1	35 DP-1	35 DP-1	42 DP-1	48 DP-1	48 DP-1					
Days After Emergence	22 DE-	22 DE-	22 DE-	22 DE-	22 DE-	22 DE-	29 DE-	35 DE-	35 DE-					
Trt No.	Treatment Name	Form Conc	Other Rate	Other Unit	Appl Code	1	2	3	4	5	6	7	8	9
8	Touchdown Total	4.17	24	oz/a										
	8 N-PAK AMS	100	2	qt/a										
9	Bicep II Magnum	5.5	1.3	qt/a	A	100	100	80	78	82	100	0	0	98
	9 Callisto Xtra	2.7	24	oz/a	B									
	9 Touchdown Total	4.17	24	oz/a										
	9 N-PAK AMS	100	2	qt/a										
10	Bicep II Magnum	5.5	1	qt/a	A	100	100	73	63	77	87	0	0	92
11	Bicep II Magnum	5.5	1	qt/a	A	100	100	72	65	63	95	0	0	94
	11 Impact	2.8	0.75	oz/a	B									
	11 Atrazine	4	16	oz/a										
	11 MSO	100	0.8	qt/a										
	11 N-PAK AMS	100	2	qt/a										
12	Bicep II Magnum	5.5	1	qt/a	A	100	93	75	67	73	100	0	0	99
	12 Impact	2.8	1	oz/a	B									
	12 Atrazine	4	16	oz/a										
	12 MSO	100	0.8	qt/a										
	12 N-PAK AMS	100	2	qt/a										
13	Bicep II Magnum	5.5	1	qt/a	A	100	93	60	57	83	77	0	0	95
	13 Laudis	3.5	3	oz/a	B									
	13 Atrazine	4	16	oz/a										
	13 MSO	100	0.8	qt/a										
	13 N-PAK AMS	100	2	qt/a										
14	Bicep II Magnum	5.5	1	qt/a	A	100	90	72	65	75	95	0	0	98
	14 Capreno	3.46	3	oz/a	B									
	14 Atrazine	4	16	oz/a										
	14 COC	100	0.8	qt/a										
	14 N-PAK AMS	100	2	qt/a										
15	Bicep II Magnum	5.5	2.1	qt/a	A	100	100	68	80	100	97	0	0	98
	15 Callisto xtra	100	24	oz/a	B									
	15 MSO	100	0.8	qt/a										
	15 N-PAK AMS	100	2	qt/a										
16	Untreated					0	0	0	0	0	0	0	0	0
LSD (P=.05)						3.2	10.2	15.0	12.8	15.2	18.5	0.0	0.0	7.7
Standard Deviation						1.9	6.1	9.0	7.7	9.1	11.1	0.0	0.0	4.6
CV						3.08	10.05	20.58	17.66	17.77	19.85	0.0	0.0	5.31
Bartlett's X2						0.0	0.455	4.038	5.075	3.365	6.731	0.0	0.0	14.934
P(Bartlett's X2)						.	0.796	0.909	0.651	0.762	0.346	.	.	0.245
Replicate F						1.000	0.055	4.650	2.416	0.630	5.067	0.000	0.000	4.001
Replicate Prob(F)						0.3798	0.9462	0.0174	0.1065	0.5394	0.0127	1.0000	1.0000	0.0288
Treatment F						2032.000	190.786	46.475	66.897	65.045	50.603	0.000	0.000	80.727
Treatment Prob(F)						0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	1.0000	1.0000	0.0001

Ohio State University Horticulture and Crop Science

Pest Code	AMBTR	AMBEL	CHEAL	AMARE	ABUTH	POLPY	SETFA	AMBTR	AMBEL					
Crop Code														
Rating Date	6/7/10	6/7/10	6/7/10	6/7/10	6/7/10	6/7/10	6/21/10	6/21/10	6/21/10					
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO					
Rating Unit	%	%	%	%	%	%	%	%	%					
Tri-Eval Interval	13 DA-B	13 DA-B	13 DA-B	13 DA-B	13 DA-B	13 DA-B	27 DA-B	27 DA-B	27 DA-B					
Plant-Eval Interval	48 DP-1	48 DP-1	48 DP-1	48 DP-1	48 DP-1	48 DP-1	62 DP-1	62 DP-1	62 DP-1					
Days After Emergence	35 DE-	35 DE-	35 DE-	35 DE-	35 DE-	35 DE-	49 DE-	49 DE-	49 DE-					
Trt No.	Treatment Name	Form Conc	Other Rate	Other Unit	Appl Code	10	11	12	13	14	15	16	17	18
8	Touchdown Total	4.17	24	oz/a										
	8 N-PAK AMS	100	2	qt/a										
9	Bicep II Magnum	5.5	1.3	qt/a	A	94	100	100	100	100	100	97	99	100
	9 Callisto Xtra	2.7	24	oz/a	B									
	9 Touchdown Total	4.17	24	oz/a										
	9 N-PAK AMS	100	2	qt/a										
10	Bicep II Magnum	5.5	1	qt/a	A	72	100	60	100	57	77	80	63	100
11	Bicep II Magnum	5.5	1	qt/a	A	94	100	99	100	93	100	96	93	100
	11 Impact	2.8	0.75	oz/a	B									
	11 Atrazine	4	16	oz/a										
	11 MSO	100	0.8	qt/a										
	11 N-PAK AMS	100	2	qt/a										
12	Bicep II Magnum	5.5	1	qt/a	A	93	100	100	100	92	100	100	92	100
	12 Impact	2.8	1	oz/a	B									
	12 Atrazine	4	16	oz/a										
	12 MSO	100	0.8	qt/a										
	12 N-PAK AMS	100	2	qt/a										
13	Bicep II Magnum	5.5	1	qt/a	A	90	100	100	100	98	100	89	85	100
	13 Laudis	3.5	3	oz/a	B									
	13 Atrazine	4	16	oz/a										
	13 MSO	100	0.8	qt/a										
	13 N-PAK AMS	100	2	qt/a										
14	Bicep II Magnum	5.5	1	qt/a	A	93	100	100	100	100	100	100	92	100
	14 Capreno	3.46	3	oz/a	B									
	14 Atrazine	4	16	oz/a										
	14 COC	100	0.8	qt/a										
	14 N-PAK AMS	100	2	qt/a										
15	Bicep II Magnum	5.5	2.1	qt/a	A	93	100	100	100	99	100	100	99	100
	15 Callisto xtra	100	24	oz/a	B									
	15 MSO	100	0.8	qt/a										
	15 N-PAK AMS	100	2	qt/a										
16	Untreated					0	0	0	0	0	0	0	0	0
LSD (P=.05)		9.4	0.0	7.2	0.0	13.5	10.5	16.3	13.2	0.0				
Standard Deviation		5.6	0.0	4.3	0.0	8.1	6.3	9.8	7.9	0.0				
CV		6.58	0.0	4.77	0.0	9.09	6.82	11.56	9.31	0.0				
Bartlett's X2		16.947	0.0	7.953	0.0	45.096	0.0	19.546	28.42	0.0				
P(Bartlett's X2)		0.202	.	0.005*	.	0.001*	.	0.052	0.008*	.				
Replicate F		1.903	0.000	1.143	0.000	1.456	1.000	2.834	1.970	0.000				
Replicate Prob(F)		0.1666	1.0000	0.3324	1.0000	0.2492	0.3798	0.0746	0.1570	1.0000				
Treatment F		53.125	0.000	110.161	0.000	30.995	48.474	20.105	28.644	0.000				
Treatment Prob(F)		0.0001	1.0000	0.0001	1.0000	0.0001	0.0001	0.0001	0.0001	1.0000				

Ohio State University Horticulture and Crop Science

Pest Code	CHEAL	AMARE	ABUTH	POLPY	SETFA	AMBTR	AMBEL	CHEAL	AMARE					
Crop Code														
Rating Date	6/21/10	6/21/10	6/21/10	6/21/10	7/20/10	7/20/10	7/20/10	7/20/10	7/20/10					
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO					
Rating Unit	%	%	%	%	%	%	%	%	%					
Trt-Eval Interval	27 DA-B	27 DA-B	27 DA-B	27 DA-B	56 DA-B	56 DA-B	56 DA-B	56 DA-B	56 DA-B					
Plant-Eval Interval	62 DP-1	62 DP-1	62 DP-1	62 DP-1	91 DP-1	91 DP-1	91 DP-1	91 DP-1	91 DP-1					
Days After Emergence	49 DE-	49 DE-	49 DE-	49 DE-	78 DE-	78 DE-	78 DE-	78 DE-	78 DE-					
Trt No.	Treatment Name	Form Conc	Other Rate	Other Unit	Appl Code	19	20	21	22	23	24	25	26	27
8	Touchdown Total	4.17	24	oz/a										
	8 N-PAK AMS	100	2	qt/a										
9	Bicep II Magnum	5.5	1.3	qt/a	A	100	100	100	100	93	96	100	100	100
	9 Callisto Xtra	2.7	24	oz/a	B									
	9 Touchdown Total	4.17	24	oz/a										
	9 N-PAK AMS	100	2	qt/a										
10	Bicep II Magnum	5.5	1	qt/a	A	60	100	53	87	83	63	100	63	95
11	Bicep II Magnum	5.5	1	qt/a	A	100	100	97	100	88	92	100	100	100
	11 Impact	2.8	0.75	oz/a	B									
	11 Atrazine	4	16	oz/a										
	11 MSO	100	0.8	qt/a										
	11 N-PAK AMS	100	2	qt/a										
12	Bicep II Magnum	5.5	1	qt/a	A	100	100	100	100	97	95	100	100	100
	12 Impact	2.8	1	oz/a	B									
	12 Atrazine	4	16	oz/a										
	12 MSO	100	0.8	qt/a										
	12 N-PAK AMS	100	2	qt/a										
13	Bicep II Magnum	5.5	1	qt/a	A	100	100	100	100	85	86	100	100	100
	13 Laudis	3.5	3	oz/a	B									
	13 Atrazine	4	16	oz/a										
	13 MSO	100	0.8	qt/a										
	13 N-PAK AMS	100	2	qt/a										
14	Bicep II Magnum	5.5	1	qt/a	A	100	100	99	100	98	93	100	100	100
	14 Capreno	3.46	3	oz/a	B									
	14 Atrazine	4	16	oz/a										
	14 COC	100	0.8	qt/a										
	14 N-PAK AMS	100	2	qt/a										
15	Bicep II Magnum	5.5	2.1	qt/a	A	100	100	100	100	96	100	100	100	100
	15 Callisto xtra	100	24	oz/a	B									
	15 MSO	100	0.8	qt/a										
	15 N-PAK AMS	100	2	qt/a										
16	Untreated					0	0	0	0	0	0	0	17	0
LSD (P=.05)		9.4	0.0	9.1	9.6	10.5	9.5	0.0	13.9	3.6				
Standard Deviation		5.7	0.0	5.4	5.8	6.3	5.7	0.0	8.4	2.2				
CV		6.29	0.0	6.01	6.21	7.62	6.69	0.0	9.1	2.32				
Bartlett's X2		0.879	0.0	17.144	0.0	23.007	5.202	0.0	15.25	0.0				
P(Bartlett's X2)		0.349	.	0.001*	.	0.06	0.921	.	0.002*	.				
Replicate F		0.584	0.000	0.856	1.000	3.707	0.776	0.000	0.156	1.000				
Replicate Prob(F)		0.5637	1.0000	0.4350	0.3798	0.0364	0.4693	1.0000	0.8564	0.3798				
Treatment F		64.831	0.000	72.692	56.250	39.676	55.023	0.000	20.945	398.333				
Treatment Prob(F)		0.0001	1.0000	0.0001	0.0001	0.0001	0.0001	1.0000	0.0001	0.0001				

Ohio State University Horticulture and Crop Science

Pest Code				ABUTH	POLPY	SIDSP	IPOHE			
Crop Code										
Rating Date				7/20/10	7/20/10	7/20/10	7/20/10			
Rating Type				CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit				%	%	%	%			
Trt-Eval Interval				56 DA-B	56 DA-B	56 DA-B	56 DA-B			
Plant-Eval Interval				91 DP-1	91 DP-1	91 DP-1	91 DP-1			
Days After Emergence				78 DE-	78 DE-	78 DE-	78 DE-			
Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Unit	Appl Code	28	29	30	31
1	REALM Q	100	4 oz/a				100	100	87	92
1	Rimsulfuron	25	1.2 oz/a			B				
1	Isoxadifen-Ethyl	50	0.3 oz/a							
1	Mesotrione	50	2.5 oz/a							
1	COC	100	0.8 qt/a							
1	N-PAK AMS	100	2 qt/a							
2	Cinch ATZ	5.5	1 qt/a			A	100	100	93	92
2	REALM Q	100	4 oz/a							
2	Rimsulfuron	25	1.2 oz/a			B				
2	Isoxadifen-Ethyl	50	0.3 oz/a							
2	Mesotrione	50	2.5 oz/a							
2	COC	100	0.8 qt/a							
2	N-PAK AMS	100	2 qt/a							
3	REALM Q	100	4 oz/a				100	100	95	93
3	Rimsulfuron	25	1.2 oz/a			B				
3	Isoxadifen-Ethyl	50	0.3 oz/a							
3	Mesotrione	50	2.5 oz/a							
3	Abundit	3	32 oz/a							
3	N-PAK AMS	100	2 qt/a							
4	REALM Q	100	4 oz/a				100	100	93	93
4	Rimsulfuron	25	1.2 oz/a			B				
4	Isoxadifen-Ethyl	50	0.3 oz/a							
4	Mesotrione	50	2.5 oz/a							
4	Ignite	2.34	22 oz/a							
4	N-PAK AMS	100	2 qt/a							
5	REALM Q	100	4 oz/a				100	100	99	100
5	Rimsulfuron	25	1.2 oz/a			B				
5	Isoxadifen-Ethyl	50	0.3 oz/a							
5	Mesotrione	50	2.5 oz/a							
5	Atrazine	4	2 pt/a							
5	COC	100	0.8 qt/a							
5	N-PAK AMS	100	2 qt/a							
6	Prequel	100	1.66 oz/a			A	100	100	97	90
6	Rimsulfuron	25	1 oz/a			A				
6	Isoxaflutole	75	0.67 oz/a							
6	REALM Q	100	4 oz/a							
6	Rimsulfuron	25	1.2 oz/a			B				
6	Isoxadifen-Ethyl	50	0.3 oz/a							
6	Mesotrione	50	2.5 oz/a							
6	COC	100	0.8 qt/a							
6	N-PAK AMS	100	2 qt/a							
7	Steadfast Q	100	1.5 oz/a				100	100	87	90
7	Steadfast	75	0.75 oz/a							
7	Isoxadifen-Ethyl	50	0.25 oz/a							
7	Mesotrione	50	2.5 oz/a							
7	COC	100	0.8 qt/a							
7	N-PAK AMS	100	2 qt/a							
8	Bicep II Magnum	5.5	1.3 qt/a			A	100	100	96	88
8	Callisto Xtra	3.7	20 oz/a			B				

Ohio State University Horticulture and Crop Science

Pest Code	ABUTH POLPY SIDSP IPOHE								
Crop Code									
Rating Date	7/20/10	7/20/10	7/20/10	7/20/10					
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO					
Rating Unit	%	%	%	%					
Trt-Eval Interval	56 DA-B	56 DA-B	56 DA-B	56 DA-B					
Plant-Eval Interval	91 DP-1	91 DP-1	91 DP-1	91 DP-1					
Days After Emergence	78 DE-	78 DE-	78 DE-	78 DE-					
Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit Code	28	29	30	31
8	Touchdown Total	4.17	24 oz/a						
8	N-PAK AMS	100	2 qt/a						
9	Bicep II Magnum	5.5	1.3 qt/a		A	100	100	98	92
9	Callisto Xtra	2.7	24 oz/a		B				
9	Touchdown Total	4.17	24 oz/a						
9	N-PAK AMS	100	2 qt/a						
10	Bicep II Magnum	5.5	1 qt/a		A	65	87	82	90
11	Bicep II Magnum	5.5	1 qt/a		A	96	100	93	93
11	Impact	2.8	0.75 oz/a		B				
11	Atrazine	4	16 oz/a						
11	MSO	100	0.8 qt/a						
11	N-PAK AMS	100	2 qt/a						
12	Bicep II Magnum	5.5	1 qt/a		A	100	100	94	93
12	Impact	2.8	1 oz/a		B				
12	Atrazine	4	16 oz/a						
12	MSO	100	0.8 qt/a						
12	N-PAK AMS	100	2 qt/a						
13	Bicep II Magnum	5.5	1 qt/a		A	100	100	96	88
13	Laudis	3.5	3 oz/a		B				
13	Atrazine	4	16 oz/a						
13	MSO	100	0.8 qt/a						
13	N-PAK AMS	100	2 qt/a						
14	Bicep II Magnum	5.5	1 qt/a		A	100	100	98	90
14	Capreno	3.46	3 oz/a		B				
14	Atrazine	4	16 oz/a						
14	COC	100	0.8 qt/a						
14	N-PAK AMS	100	2 qt/a						
15	Bicep II Magnum	5.5	2.1 qt/a		A	100	100	99	88
15	Callisto xtra	100	24 oz/a		B				
15	MSO	100	0.8 qt/a						
15	N-PAK AMS	100	2 qt/a						
16	Untreated					20	0	0	0
LSD (P=.05)		15.9	9.6	9.1	10.1				
Standard Deviation		9.5	5.8	5.4	6.0				
CV		10.31	6.21	6.2	7.02				
Bartlett's X2		17.091	0.0	35.474	1.57				
P(Bartlett's X2)		0.001*	.	0.001*	1.00				
Replicate F		0.437	1.000	2.288	4.484				
Replicate Prob(F)		0.6499	0.3798	0.1189	0.0198				
Treatment F		14.834	56.250	58.057	43.920				
Treatment Prob(F)		0.0001	0.0001	0.0001	0.0001				

Ohio State University Horticulture and Crop Science

Preemergence fb Postemergence Weed Control in Corn 3

Title No. 2:

Trial ID: 10PRPOC3 Protocol ID: 10PRPOC3
Location: WESTERN BRANCH F-7 Study Director: Anthony F. Dobbels
Project ID: Investigator: Dr. Mark M. Loux
Sponsor Contact:

Pest Code

SETFA, *Setaria faberi*, = US
AMBEL, *Ambrosia artemisiifolia*, = US
AMBTR, *Ambrosia trifida*, = US
CHEAL, *Chenopodium album*, = US
ABUTH, *Abutilon theophrasti*, = US
POLPY, *Polygonum pensylvanicum*, = US
AMARE, *Amaranthus retroflexus*, = US
SIDSP, *Sida spinosa*, = US
IPOHE, *Ipomoea hederacea*, = US

Crop Code

ZEAMX, BCOR, *Zea mays*, = US

Rating Type

CONTRO = control / burndown or knockdown
PHYGEN = phytotoxicity - general / injury

Rating Unit

% = percent

Plant-Eval Interval

35 DP-1 = 1 4/20/10
42 DP-1 = 1 4/20/10
48 DP-1 = 1 4/20/10
62 DP-1 = 1 4/20/10
91 DP-1 = 1 4/20/10