

Ohio State University Horticulture and Crop Science

Early Preplant Burndown in Corn with Valor, V-10233 and Authority MTZ

Title No. 2:
 Trial ID: 10NTC2 Protocol ID: 10NTC2
 Location: WESTERN BRANCH F-9 E 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 °:** 39.8587 N
State/Prov.: Ohio **Longitude of LL Corner °:** 83.67077 W
Postal Code: 45368 **Altitude of LL Corner, Unit:** 1084.00 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	Description: RR/LL
Variety: Seed Consultants SC11HQ38	Planting Date: 4/29/10
BBCH Scale: BCOR	Rate, Unit: 32097 S/A
Planting Method: SEEDED seeded	
Depth, Unit: 2 IN	
Row Spacing, Unit: 30 IN	
Seed Bed: MEDTRA medium/trashy	Soil Temperature, Unit: 52 F
Soil Moisture: MOIST	Emergence Date: 5/10/10
Harvest Date: 9/14/10	Harvest Equipment: MASSEY 8 XP
Harvested Width, Unit: 5 FT	Harvested Length, Unit: 30 FT
% Standard Moisture: 15.5	Moisture Meter: HARVEST MASTER
Weighing Equipment: HARVEST MASTER 401	

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Pest Description

- Pest 1 Type:** W **Code:** STEME *Stellaria media*
Common Name: Common chickweed
- Pest 2 Type:** W **Code:** LAMPU *Lamium purpureum*
Common Name: Purple deadnettel
- Pest 3 Type:** W **Code:** CAPBP *Capsella bursa-pastoris*
Common Name: Shepherd's purse
- Pest 4 Type:** W **Code:** ERICA *Conyza canadensis*
Common Name: Canada horseweed
- Pest 5 Type:** W **Code:** LEPVI *Lepidium virginicum*
Common Name: Virginia pepperweed
- Pest 6 Type:** W **Code:** TAROF *Taraxacum officinale*
Common Name: Common dandelion
- Pest 7 Type:** W **Code:** VERAG *Veronica agrestis*
Common Name: Field speedwell
- Pest 8 Type:** W **Code:** SONAR *Sonchus arvensis*
Common Name: Perennial sowthistle
- Pest 9 Type:** W **Code:** RUMCR *Rumex crispus*
Common Name: Curly dock
- Pest10 Type:** W **Code:** SETFA *Setaria faberi*
Common Name: Giant foxtail
- Pest11 Type:** W **Code:** AMBEL *Ambrosia artemisiifolia*
Common Name: Common ragweed
- Pest12 Type:** W **Code:** LACSE *Lactuca serriola*
Common Name: Prickly lettuce
- Pest13 Type:** W **Code:** CHEAL *Chenopodium album*
Common Name: Common lambsquarters
- Pest14 Type:** W **Code:** AMBTR *Ambrosia trifida*
Common Name: Giant ragweed

Site and Design

Plot Width, Unit: 6.67 FT
Plot Length, Unit: 30 FT
Plot Area, Unit: 200.1 FT²
Replications: 3

Site Type: FIELD field
Experimental Unit: 1 PLOT plot
Tillage Type: NOTILL no-till
Study Design: RACOBL Randomized Complete Block (RCB)
Untreated Arrangement: INCLUDED single control randomized in each block

Soil Description

Description Name: F-9 East
% OM: 2.8
pH: 5.7
CEC: 21

Texture: SICL silty clay loam
Soil Name: Kokomo
Fert. Level: G good
Soil Drainage: G good

Application Description

	A	B	C
Application Date:	4/21/10	4/30/10	6/7/10
Time of Day:	9:30 A.M.	9:00 A.M.	11:30 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	7 EPP	PRE	POST
Application Placement:	BROFOL	BROFOL	BROFOL
Applied By:	McCormick	McCormick	McCormick
Air Temperature, Unit:	53 F	64 F	73.3 F
% Relative Humidity:	49	68	78.8
Wind Velocity, Unit:	3 MPH	8 MPH	4.5 MPH
Wind Direction:	WSW	S	W
Dew Presence (Y/N):	N no	N no	N no
Soil Temperature, Unit:	50 F	52 F	64 F
Soil Moisture:	DRY	NORMAL	WET
% Cloud Cover:	2	20	70
Next Rain Occurred On:		5/1/10	6/8/10

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Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:			BBCH
Stage Majority, Percent:			17 100
Height, Unit:			16 IN

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Pest Stage At Each Application

	A		B		C	
Pest 1 Code, Type, Scale:	STEME	W	STEME	W	STEME	W
Stage Majority, Percent:	65	100	65	100	65	
Diameter, Unit:	12	IN	14	IN		
Height, Unit:	4	IN	4	IN	8	IN
Height Minimum, Maximum:	4	6	3	4	6	10
Density, Unit:	4	M2	4	M2		
Pest 2 Code, Type, Scale:	LAMPU	W	LAMPU	W	LAMPU	W
Stage Majority, Percent:	65	100	65	100		
Diameter, Unit:	4	IN	4	IN		
Height, Unit:	6	IN	6	IN		
Height Minimum, Maximum:	4	6	6	7		
Density, Unit:	12	M2	12	M2		
Pest 3 Code, Type, Scale:	CAPBP	W	CAPBP	W	CAPBP	W
Stage Majority, Percent:	65	100	65	100		
Diameter, Unit:	5	IN	5	IN		
Height, Unit:	14	IN	15	IN		
Height Minimum, Maximum:	12	16	13	16		
Density, Unit:	1	M2	1	M2		
Pest 4 Code, Type, Scale:	ERICA	W	ERICA	W	ERICA	W
Stage Majority, Percent:	19	100	19	100	19	100
Diameter, Unit:	3	IN	3	IN		
Height, Unit:	3	IN	3	IN	11	IN
Height Minimum, Maximum:	3	4	2	4	10	12
Density, Unit:	3	M2	3	M2		
Pest 5 Code, Type, Scale:	LEPVI	W	LEPVI	W	LEPVI	W
Stage Majority, Percent:	65	100	65	100		
Diameter, Unit:	6	IN	8	IN		
Height, Unit:	20	IN	22	IN		
Height Minimum, Maximum:	18	20	18	22		
Density, Unit:	0.25	M2	0.25	M2		
Pest 6 Code, Type, Scale:	TAROF	W	TAROF	W	TAROF	W
Stage Majority, Percent:	65	100	65	100		
Diameter, Unit:	6	IN	14	IN		
Height, Unit:	5	IN	8	IN		
Height Minimum, Maximum:	4	6	6	8		
Density, Unit:	0.33	M2	0.33	M2		
Pest 7 Code, Type, Scale:	VERAG	W	VERAG	W	VERAG	W
Stage Majority, Percent:	65	100	65	100		
Diameter, Unit:	6	IN	8	IN		
Height, Unit:	2	IN	3	IN		
Height Minimum, Maximum:	2	3	2	3		
Density, Unit:	2	M2	2	M2		
Pest 8 Code, Type, Scale:	SONAR	W	SONAR	W	SONAR	W
Stage Majority, Percent:	19	100	19	100		
Diameter, Unit:	5	IN	6	IN		
Height, Unit:	6	IN	10	IN		
Height Minimum, Maximum:	5	6	8	10		
Density, Unit:	0.25	M2	0.25	M2		
Pest 9 Code, Type, Scale:	RUMCR	W	RUMCR	W	RUMCR	W
Stage Majority, Percent:	19	100	19	100	19	100
Diameter, Unit:	5	IN	6	IN		
Height, Unit:	8	IN	12	IN	30	IN
Height Minimum, Maximum:	6	8	10	12	25	35
Density, Unit:	0.1	M2	0.1	M2		
Pest10 Code, Type, Scale:	SETFA	W	SETFA	W	SETFA	W
Stage Majority, Percent:					15	100
Height, Unit:					10	IN
Height Minimum, Maximum:					9	10
Pest11 Code, Type, Scale:	AMBEL	W	AMBEL	W	AMBEL	W
Stage Majority, Percent:					15	100
Height, Unit:					7	IN
Height Minimum, Maximum:					6	8
Pest12 Code, Type, Scale:	LACSE	W	LACSE	W	LACSE	W
Stage Majority, Percent:					19	100
Height, Unit:					48	IN
Height Minimum, Maximum:					40	50
Pest13 Code, Type, Scale:	CHEAL	W	CHEAL	W	CHEAL	W
Stage Majority, Percent:					14	100
Height, Unit:					12	IN
Height Minimum, Maximum:					10	14
Pest14 Code, Type, Scale:	AMBTR	W	AMBTR	W	AMBTR	W
Stage Majority, Percent:					35	100
Height, Unit:					8	IN
Height Minimum, Maximum:					6	10

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Application Equipment

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

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Pest Code	STEME	LAMPU	ERICA	CAPBP	TAROF	LEPVI	VERAG	SONAR	RUMCR						
Rating Date	4/28/10	4/28/10	4/28/10	4/28/10	4/28/10	4/28/10	4/28/10	4/28/10	4/28/10						
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO						
Rating Unit	%	%	%	%	%	%	%	%	%						
Trt-Eval Interval	7 DA-A	7 DA-A	7 DA-A	7 DA-A	7 DA-A	7 DA-A	7 DA-A	7 DA-A	7 DA-A						
Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Unit	Code	1	2	3	4	5	6	7	8	9
10	COC	100	0.8	qt/a											
11	Authority MTZ	45	5.5	oz/a		B									
11	Gramoxone Inteon	2	32	oz/a											
11	COC	100	0.8	qt/a											
11	Cadet	10	0.5	oz/a		C									
11	Roundup PowerMax	4.5	22	oz/a											
11	Atrazine	4	32	oz/a											
11	COC	100	0.8	qt/a											
12	Gramoxone Inteon	2	32	oz/a		B									
12	Authority MTZ	45	5.5	oz/a											
12	COC	100	0.8	qt/a											
12	Cadet	10	0.5	oz/a		C									
12	Prowl H2O	3.8	2	pt/a											
12	Accent	75	0.66	oz/a											
12	NIS	100	6.4	oz/a											
13	Bicep II Magnum	5.5	1.6	qt/a		B									
13	Gramoxone Inteon	2	32	oz/a											
13	COC	100	0.8	qt/a											
13	Cadet	10	0.5	oz/a		C									
13	Roundup PowerMax	4.5	22	oz/a											
13	Atrazine	4	32	oz/a											
13	COC	100	0.8	qt/a											
14	Gramoxone Inteon	2	32	oz/a		B									
14	Authority MTZ	45	5.5	oz/a											
14	COC	100	0.8	qt/a											
14	Cadet	10	0.5	oz/a		C									
14	Roundup PowerMax	4.5	22	oz/a											
14	Sencor 75DF	75	2	oz/a											
14	COC	100	0.8	qt/a											
LSD (P=.05)			15.0	10.7	20.1	14.0	21.0	10.8	5.9	32.8	.	.	.	.	.
Standard Deviation			7.8	5.9	8.9	7.4	10.5	4.8	2.8	3.2	.	.	.	.	.
CV			85.01	31.66	165.95	59.44	49.75	51.59	48.49	10.37	.	.	.	.	.
Bartlett's X2			2.903	0.53	0.439	0.968	2.632	0.976	0.068	0.0	.	.	.	.	.
P(Bartlett's X2)			0.407	0.912	0.803	0.915	0.268	0.614	0.966	.	.	.	.	.	.
Replicate F			1.098	0.040	0.340	1.208	1.269	2.372	0.365	0.125					
Replicate Prob(F)			0.3847	0.9609	0.7302	0.3481	0.3471	0.2093	0.7115	0.8944					
Treatment F			3.926	12.040	1.777	4.619	8.837	7.314	17.188	489.750					
Treatment Prob(F)			0.0513	0.0006	0.2957	0.0280	0.0097	0.0399	0.0040	0.0339					

Ohio State University Horticulture and Crop Science

Pest Code	STEME	LAMPU	ERICA	CAPBP	TAROF	LEPVI	VERAG	SONAR	RUMCR					
Rating Date	5/24/10	5/24/10	5/24/10	5/24/10	5/24/10	5/24/10	5/24/10	5/24/10	5/24/10					
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO					
Rating Unit	%	%	%	%	%	%	%	%	%					
Trt-Eval Interval	24 DA-B	24 DA-B	24 DA-B	24 DA-B	24 DA-B	24 DA-B	24 DA-B	24 DA-B	24 DA-B					
Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Unit Code	19	20	21	22	23	24	25	26	27
10	COC	100	0.8	qt/a										
11	Authority MTZ	45	5.5	oz/a	B	100	100	73	100	43	100	100	40	60
11	Gramoxone Inteon	2	32	oz/a										
11	COC	100	0.8	qt/a										
11	Cadet	10	0.5	oz/a	C									
11	Roundup PowerMax	4.5	22	oz/a										
11	Atrazine	4	32	oz/a										
11	COC	100	0.8	qt/a										
12	Gramoxone Inteon	2	32	oz/a	B	93	100	57	100	80	100	100	50	50
12	Authority MTZ	45	5.5	oz/a										
12	COC	100	0.8	qt/a										
12	Cadet	10	0.5	oz/a	C									
12	Prowl H2O	3.8	2	pt/a										
12	Accent	75	0.66	oz/a										
12	NIS	100	6.4	oz/a										
13	Bicep II Magnum	5.5	1.6	qt/a	B	100	100	83	100	47	100	100	100	57
13	Gramoxone Inteon	2	32	oz/a										
13	COC	100	0.8	qt/a										
13	Cadet	10	0.5	oz/a	C									
13	Roundup PowerMax	4.5	22	oz/a										
13	Atrazine	4	32	oz/a										
13	COC	100	0.8	qt/a										
14	Gramoxone Inteon	2	32	oz/a	B	100	100	83	100	33	100	100		47
14	Authority MTZ	45	5.5	oz/a										
14	COC	100	0.8	qt/a										
14	Cadet	10	0.5	oz/a	C									
14	Roundup PowerMax	4.5	22	oz/a										
14	Sencor 75DF	75	2	oz/a										
14	COC	100	0.8	qt/a										
LSD (P=.05)						8.7	0.0	30.3	0.0	25.0	0.1	7.8	23.4	48.5
Standard Deviation						5.2	0.0	18.1	0.0	14.9	0.0	4.6	12.7	26.7
CV						5.72	0.0	23.44	0.0	20.85	0.04	5.02	17.46	36.64
Bartlett's X2						5.995	0.0	7.199	0.0	24.943	0.0	0.0	1.802	2.908
P(Bartlett's X2)						0.05*	.	0.616	.	0.009*	.	.	0.876	0.406
Replicate F						1.548	0.000	1.547	0.000	0.845	0.000	1.000	0.063	0.901
Replicate Prob(F)						0.2316	1.0000	0.2319	1.0000	0.4411	1.0000	0.3816	0.9394	0.4368
Treatment F						78.665	0.000	6.577	0.000	14.198	1451875.020	99.462	17.472	4.854
Treatment Prob(F)						0.0001	1.0000	0.0001	1.0000	0.0001	0.0001	0.0001	0.0001	0.0085

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Pest Code	SETFA		AMBTR	ERICA	STEME	TAROF	RUMCR	SETFA	AMBTR					
Rating Date	5/24/10	6/7/10	6/7/10	6/7/10	6/7/10	6/7/10	6/7/10	7/1/10	7/1/10					
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO					
Rating Unit	%	%	%	%	%	%	%	%	%					
Trt-Eval Interval	24 DA-B	38 DA-B	0 DA-C	0 DA-C	0 DA-C	0 DA-C	0 DA-C	24 DA-C	24 DA-C					
Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Unit Code	28	29	30	31	32	33	34	35	36
10	COC	100	0.8 qt/a											
11	Authority MTZ	45	5.5 oz/a		B	40	23	30	87	100	40	20	100	100
11	Gramoxone Inteon	2	32 oz/a											
11	COC	100	0.8 qt/a											
11	Cadet	10	0.5 oz/a		C									
11	Roundup PowerMax	4.5	22 oz/a											
11	Atrazine	4	32 oz/a											
11	COC	100	0.8 qt/a											
12	Gramoxone Inteon	2	32 oz/a		B	40	0	23	60	92	63	30	60	60
12	Authority MTZ	45	5.5 oz/a											
12	COC	100	0.8 qt/a											
12	Cadet	10	0.5 oz/a		C									
12	Prowl H2O	3.8	2 pt/a											
12	Accent	75	0.66 oz/a											
12	NIS	100	6.4 oz/a											
13	Bicep II Magnum	5.5	1.6 qt/a		B	95	63	55	73	100	50	20	97	97
13	Gramoxone Inteon	2	32 oz/a											
13	COC	100	0.8 qt/a											
13	Cadet	10	0.5 oz/a		C									
13	Roundup PowerMax	4.5	22 oz/a											
13	Atrazine	4	32 oz/a											
13	COC	100	0.8 qt/a											
14	Gramoxone Inteon	2	32 oz/a		B	17	0	17	70	100	30	20	100	80
14	Authority MTZ	45	5.5 oz/a											
14	COC	100	0.8 qt/a											
14	Cadet	10	0.5 oz/a		C									
14	Roundup PowerMax	4.5	22 oz/a											
14	Sencor 75DF	75	2 oz/a											
14	COC	100	0.8 qt/a											
LSD (P=.05)						31.0	23.8	31.5	26.3	9.7	33.5	15.4	3.8	5.7
Standard Deviation						18.5	14.2	18.7	15.7	5.8	19.9	6.8	2.2	3.4
CV						37.23	51.05	59.4	22.14	6.33	31.38	12.1	2.53	3.88
Bartlett's X2						8.403	7.201	7.049	13.087	0.065	9.96	0.0	0.887	6.948
P(Bartlett's X2)						0.677	0.408	0.632	0.219	0.799	0.619	.	0.642	0.225
Replicate F						0.038	2.087	0.622	0.466	2.146	3.061	0.167	0.358	0.389
Replicate Prob(F)						0.9624	0.1444	0.5446	0.6324	0.1372	0.0654	0.8521	0.7026	0.6818
Treatment F						8.346	11.955	4.208	7.935	63.046	5.580	95.917	465.587	198.399
Treatment Prob(F)						0.0001	0.0001	0.0009	0.0001	0.0001	0.0001	0.0002	0.0001	0.0001

Ohio State University Horticulture and Crop Science

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Unit	Appl Code	37
	Pest Code					ERICA	
	Rating Date					7/1/10	
	Rating Type					CONTRO	
	Rating Unit					%	
	Trt-Eval Interval					24 DA-C	
1	UTC						0
2	Roundup PowerMax	4.5	22 oz/a			A	90
	2 N-PAK AMS	100	3 qt/a				
	2 Roundup PowerMax	4.5	22 oz/a			C	
	2 N-PAK AMS	100	3 qt/a				
3	Roundup PowerMax	4.5	22 oz/a			A	68
	3 V-10233	76	3 oz/a				
	3 N-PAK AMS	100	3 qt/a				
	3 Roundup PowerMax	4.5	22 oz/a			C	
	3 Atrazine	4	1 pt/a				
	3 N-PAK AMS	100	3 qt/a				
4	Roundup PowerMax	4.5	22 oz/a			A	73
	4 Valor SX	51	2 oz/a				
	4 N-PAK AMS	100	3 qt/a				
	4 Roundup PowerMax	4.5	22 oz/a			C	
	4 Atrazine	4	1 pt/a				
	4 N-PAK AMS	100	3 qt/a				
5	Roundup PowerMax	4.5	22 oz/a			B	83
	5 Bicep II Magnum	5.5	1.5 qt/a				
	5 N-PAK AMS	100	3 qt/a				
	5 Roundup PowerMax	4.5	22 oz/a			C	
	5 N-PAK AMS	100	3 qt/a				
6	Roundup PowerMax	4.5	22 oz/a			B	100
	6 Lexar	3.7	1.5 qt/a				
	6 N-PAK AMS	100	3 qt/a				
	6 Roundup PowerMax	4.5	22 oz/a			C	
	6 N-PAK AMS	100	3 qt/a				
7	Roundup PowerMax	4.5	22 oz/a			B	100
	7 Corvus	2.63	3 oz/a				
	7 Atrazine	4	1 qt/a				
	7 N-PAK AMS	100	3 qt/a				
	7 Roundup PowerMax	4.5	22 oz/a			C	
	7 N-PAK AMS	100	3 qt/a				
8	Roundup PowerMax	4.5	22 oz/a			A	75
	8 V-10233	76	3 oz/a				
	8 N-PAK AMS	100	3 qt/a				
	8 Roundup PowerMax	4.5	22 oz/a			C	
	8 N-PAK AMS	100	3 qt/a				
9	Roundup PowerMax	4.5	22 oz/a			A	93
	9 Integrity	5.57	13 oz/a				
	9 N-PAK AMS	100	3 qt/a				
	9 MSO	100	0.8 qt/a				
	9 Roundup PowerMax	4.5	22 oz/a			C	
	9 N-PAK AMS	100	3 qt/a				
10	Authority MTZ	45	5.5 oz/a			B	100
	10 Gramoxone Inteon	2	32 oz/a				
	10 COC	100	0.8 qt/a				
	10 Cadet	10	0.5 oz/a			C	
	10 Ignite	2.34	22 oz/a				
	10 Atrazine	4	32 oz/a				

Ohio State University Horticulture and Crop Science

Pest Code ERICA
 Rating Date 7/1/10
 Rating Type CONTRO
 Rating Unit %
 Trt-Eval Interval 24 DA-C

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate Unit	Appl Code	
10	COC	100	0.8	qt/a		37
11	Authority MTZ	45	5.5	oz/a	B	98
11	Gramoxone Inteon	2	32	oz/a		
11	COC	100	0.8	qt/a		
11	Cadet	10	0.5	oz/a	C	
11	Roundup PowerMax	4.5	22	oz/a		
11	Atrazine	4	32	oz/a		
11	COC	100	0.8	qt/a		
12	Gramoxone Inteon	2	32	oz/a	B	80
12	Authority MTZ	45	5.5	oz/a		
12	COC	100	0.8	qt/a		
12	Cadet	10	0.5	oz/a	C	
12	Prowl H2O	3.8	2	pt/a		
12	Accent	75	0.66	oz/a		
12	NIS	100	6.4	oz/a		
13	Bicep II Magnum	5.5	1.6	qt/a	B	100
13	Gramoxone Inteon	2	32	oz/a		
13	COC	100	0.8	qt/a		
13	Cadet	10	0.5	oz/a	C	
13	Roundup PowerMax	4.5	22	oz/a		
13	Atrazine	4	32	oz/a		
13	COC	100	0.8	qt/a		
14	Gramoxone Inteon	2	32	oz/a	B	93
14	Authority MTZ	45	5.5	oz/a		
14	COC	100	0.8	qt/a		
14	Cadet	10	0.5	oz/a	C	
14	Roundup PowerMax	4.5	22	oz/a		
14	Sencor 75DF	75	2	oz/a		
14	COC	100	0.8	qt/a		
LSD (P=.05)						17.7
Standard Deviation						10.5
CV						12.75
Bartlett's X2						9.443
P(Bartlett's X2)						0.306
Replicate F						1.470
Replicate Prob(F)						0.2485
Treatment F						18.617
Treatment Prob(F)						0.0001

Ohio State University Horticulture and Crop Science

Early Preplant Burndown in Corn with Valor, V-10233 and Authority MTZ

Title No. 2:

Trial ID: 10NTC2

Location: WESTERN BRANCH F-9 E

Project ID:

Protocol ID: 10NTC2

Study Director: Anthony F. Dobbels

Investigator: Dr. Mark M. Loux

Sponsor Contact:

Pest Code

STEME, *Stellaria media*, = US

LAMPU, *Lamium purpureum*, = US

ERICA, *Conyza canadensis*, = US

CAPBP, *Capsella bursa-pastoris*, = US

TAROF, *Taraxacum officinale*, = US

LEPVI, *Lepidium virginicum*, = US

VERAG, *Veronica agrestis*, = US

SONAR, *Sonchus arvensis*, = US

RUMCR, *Rumex crispus*, = US

SETFA, *Setaria faberi*, = US

AMBTR, *Ambrosia trifida*, = US

Rating Type

CONTRO = control / burndown or knockdown

Rating Unit

% = percent