

# Ohio State University Horticulture and Crop Science

## NO-TILL BURNDOWN AND RESIDUAL IN CORN

Title No. 2:  
 Trial ID: 11NTC3      Protocol ID: 11NTC3  
 Location: WESTERN BRANCH F-9 E      Study Director: Anthony F. Dobbels  
 Project ID:      Investigator: Dr. Mark M. Loux  
                          Sponsor Contact: Dave Lamore, Bayer CropScience

### 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 °:** 39.85883 N  
**State/Prov.:** Ohio      **Longitude of LL Corner °:** -83.67319 W  
**Postal Code:** 45368  
**Country:** USA

### Crop Description

**Crop 1:** ZEAMX Zea mays      Corn  
**Variety:** Dekalb DKC 61-21  
**BBCH Scale:** BCOR      **Description:** RR  
**Planting Method:** SEEDED seeded      **Planting Date:** 5/22/11  
**Depth, Unit:** 2 IN      **Rate, Unit:** 34237 S/A  
**Row Spacing, Unit:** 30 IN  
**Seed Bed:** MEDIUM medium      **Soil Temperature, Unit:** 71 F  
**Soil Moisture:** SLIWET slightly wet      **Emergence Date:** 6/1/11

### 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:** LAMAM *Lamium amplexicaule*  
**Common Name:** Henbit

**Pest 4 Type:** W      **Code:** CAPBP *Capsella bursa-pastoris*  
**Common Name:** Shepherd's purse

**Pest 5 Type:** W      **Code:** ERYRE *Erysimum repandum*  
**Common Name:** Bushy wallflower

**Pest 6 Type:** W      **Code:** LEPVI *Lepidium virginicum*  
**Common Name:** Virginia pepperweed

**Pest 7 Type:** W      **Code:** ERICA *Conyza canadensis*  
**Common Name:** Canada horseweed

**Pest 8 Type:** W      **Code:** SETFA *Setaria faberi*  
**Common Name:** Giant foxtail

**Pest 9 Type:** W      **Code:** AMBTR *Ambrosia trifida*  
**Common Name:** Giant ragweed

**Pest10 Type:** W      **Code:** AMBEL *Ambrosia artemisiifolia*  
**Common Name:** Common ragweed

**Pest11 Type:** W      **Code:** ECHCG *Echinochloa crus-galli*  
**Common Name:** Common barnyardgrass

### 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:** NOTILL no-till  
**Replications:** 3      **Study Design:** RACOBL Randomized Complete Block (RCB)  
**Untreated Arrangement:** INCLUDED single control randomized in each block

### Soil Description

**Description Name:** F-9 West  
**% OM:** 2      **Texture:** SICL silty clay loam  
**pH:** 6.1      **Soil Name:** Kokomo  
**CEC:** 11.5      **Fert. Level:** G good  
**Soil Drainage:** G good

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## Application Description

	A	B
<b>Application Date:</b>	4/14/11	6/13/11
<b>Time of Day:</b>	10:30 A.M	2:00 P.M.
<b>Application Method:</b>	SPRAY	SPRAY
<b>Application Timing:</b>	14 EPP	POST
<b>Application Placement:</b>	BROFO	BROFOL
<b>Applied By:</b>	Reeb	Dobbels
<b>Air Temperature, Unit:</b>	63 F	77 F
<b>% Relative Humidity:</b>	50	
<b>Wind Velocity, Unit:</b>	3 MPH	5 MPH
<b>Wind Direction:</b>	N	NW
<b>Dew Presence (Y/N):</b>	N no	N no
<b>Soil Temperature, Unit:</b>	48 F	77 F
<b>Soil Moisture:</b>	MOIST	MOIST
<b>% Cloud Cover:</b>	1	50
<b>Next Rain Occurred On:</b>	4/16/11	7/2/11

## Crop Stage At Each Application

	A	B
<b>Crop 1 Code, BBCH Scale:</b>	ZEAMX BCOR	ZEAMX BCOR
<b>Stage Scale Used:</b>		BBCH
<b>Stage Majority, Percent:</b>		16 100
<b>Height, Unit:</b>		8 IN
<b>Height Minimum, Maximum:</b>		8 10

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## Pest Stage At Each Application

	A	B
<b>Pest 1 Code, Type, Scale:</b>	STEME W	STEME W
<b>Stage Majority, Percent:</b>	67 100	
<b>Diameter, Unit:</b>	8 IN	
<b>Height, Unit:</b>	0.5 IN	
<b>Height Minimum, Maximum:</b>	0.5 1	
<b>Pest 2 Code, Type, Scale:</b>	LAMPU W	LAMPU W
<b>Stage Majority, Percent:</b>	69 100	
<b>Diameter, Unit:</b>	4 IN	
<b>Height, Unit:</b>	3 IN	
<b>Height Minimum, Maximum:</b>	3 4	
<b>Pest 3 Code, Type, Scale:</b>	LAMAM W	LAMAM W
<b>Stage Majority, Percent:</b>	67 100	
<b>Diameter, Unit:</b>	3 IN	
<b>Height, Unit:</b>	3 IN	
<b>Height Minimum, Maximum:</b>	2 4	
<b>Pest 4 Code, Type, Scale:</b>	CAPBP W	CAPBP W
<b>Stage Majority, Percent:</b>	30 90	
<b>Stage Minimum, Percent:</b>	30 90	
<b>Stage Maximum, Percent:</b>	67 10	
<b>Diameter, Unit:</b>	4 IN	
<b>Height, Unit:</b>	4 IN	
<b>Height Minimum, Maximum:</b>	3 6	
<b>Pest 5 Code, Type, Scale:</b>	ERYRE W	ERYRE W
<b>Stage Majority, Percent:</b>	30 100	
<b>Diameter, Unit:</b>	3 IN	
<b>Height, Unit:</b>	2 IN	
<b>Height Minimum, Maximum:</b>	1 3	
<b>Pest 6 Code, Type, Scale:</b>	LEPVI W	LEPVI W
<b>Stage Majority, Percent:</b>	60 100	
<b>Diameter, Unit:</b>	3 IN	
<b>Height, Unit:</b>	5 IN	
<b>Height Minimum, Maximum:</b>	4 6	
<b>Pest 7 Code, Type, Scale:</b>	ERICA W	ERICA W
<b>Stage Majority, Percent:</b>		19 100
<b>Height, Unit:</b>		10 IN
<b>Height Minimum, Maximum:</b>		8 12
<b>Density, Unit:</b>	60 M2	60 M2
<b>Pest 8 Code, Type, Scale:</b>	SETFA W	SETFA W
<b>Stage Majority, Percent:</b>		14 100
<b>Height, Unit:</b>		8 IN
<b>Height Minimum, Maximum:</b>		6 8
<b>Density, Unit:</b>	273.33 M2	273.33 M2
<b>Pest 9 Code, Type, Scale:</b>	AMBTR W	AMBTR W
<b>Stage Majority, Percent:</b>		18 100
<b>Height, Unit:</b>		8 IN
<b>Height Minimum, Maximum:</b>		8 10
<b>Density, Unit:</b>	24 M2	24 M2
<b>Pest10 Code, Type, Scale:</b>	AMBEL W	AMBEL W
<b>Stage Majority, Percent:</b>		18 100
<b>Height, Unit:</b>		5 IN
<b>Height Minimum, Maximum:</b>		4 6
<b>Pest11 Code, Type, Scale:</b>	ECHCG W	ECHCG W
<b>Density, Unit:</b>	17.33 M2	17.33 M2

## Application Equipment

	A	B
<b>Appl. Equipment:</b>	6 foot boom	Tractor
<b>Equipment Type:</b>	SPRBAC	SPTRMO
<b>Operating Pressure, Unit:</b>	34 PSI	40 PSI
<b>Nozzle Type:</b>	TEEJET DG	DG
<b>Nozzle Size:</b>	80015	11002
<b>Nozzle Spacing, Unit:</b>	18 IN	20 IN
<b>Boom Length, Unit:</b>	6 FT	20 FT
<b>Boom Height, Unit:</b>	20 IN	20 IN
<b>Ground Speed, Unit:</b>	3 MPH	5.7 MPH
<b>Carrier:</b>	WATER	WATER
<b>Spray Volume, Unit:</b>	15 GPA	20 GAL/AC
<b>Mix Size, Unit:</b>	0.33 Gallons	10 gallons
<b>Propellant:</b>	CO2	PUMROL
<b>Tank Mix (Y/N):</b>		N no

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 Project ID: Investigator: Dr. Mark M. Loux  
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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	STEME	LAMPU	CAPBP	ERYRE	STEME
Pest Scientific Name	Stellaria media	Lamium purpure>	Capsella bursa>	Erysimum repa>	Stellaria media
Pest Name	Common chickwe>	Purple deadnet>	Shepherd's pur>	Bushy wallflow>	Common chickwe>
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	4/29/11	4/29/11	4/29/11	4/29/11	5/13/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Rating Timing					
Days After First/Last Applic.	15 15	15 15	15 15	15 15	29 29
Trt-Eval Interval	15 DA-A	15 DA-A	15 DA-A	15 DA-A	29 DA-A
Plant-Eval Interval	-23 DP-1	-23 DP-1	-23 DP-1	-23 DP-1	-9 DP-1
Days After Emergence	-33 DE-1	-33 DE-1	-33 DE-1	-33 DE-1	-19 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit Code	1	2	3	4	5
1	Corvus	2.63	5.6 oz/a		A	90	83	47	67	100
	1 Atrazine	4	1.5 qt/a		A					
	1 COC	100	0.6 qt/a		A					
2	Corvus	2.63	5.6 oz/a		A	88	77	77	53	100
	2 Atrazine	4	1.5 qt/a		A					
	2 Roundup PowerMax	4.5	22 oz/a		A					
3	Corvus	2.63	5.6 oz/a		A	93	82	93	68	95
	3 Atrazine	4	1.5 qt/a		A					
	3 Ignite	2.34	22 oz/a		A					
4	Corvus	2.63	5.6 oz/a		A	77	72	90	82	95
	4 Sharpen	2.85	1 oz/a		A					
	4 MSO	100	0.6 qt/a		A					
5	Lexar	3.7	3 qt/a		A	88	90	83	78	93
6	Surestart	4.25	3 pt/a		A	95	60	82	64	100
	6 Durango DMA	4	24 oz/a		A					
	6 2,4-D Amine	4	1 pt/a		A					
	6 N-PAK AMS	100	1.5 qt/a		A					
	6 Durango DMA	4	24 oz/a		B					
	6 N-PAK AMS	100	1.5 qt/a		B					
7	Surestart	4.25	3 pt/a		A	86	78	97	73	98
	7 Atrazine	4	1 qt/a		A					
	7 Durango DMA	4	24 oz/a		A					
	7 2,4-D Amine	4	1 pt/a		A					
	7 N-PAK AMS	100	1.5 qt/a		A					
	7 Durango DMA	4	24 oz/a		B					
	7 N-PAK AMS	100	1.5 qt/a		B					
8	UTC					0	0	0	0	0
LSD (P=.05)						21.9	17.8	21.6	18.8	5.2
Standard Deviation						12.5	10.2	12.4	9.4	3.0
CV						16.22	15.0	17.38	15.55	3.51
Bartlett's X2						2.562	3.228	2.183	0.529	0.867
P(Bartlett's X2)						0.861	0.78	0.902	0.912	0.648
Replicate F						0.692	1.646	1.687	0.454	0.467
Replicate Prob(F)						0.5168	0.2279	0.2206	0.6551	0.6365
Treatment F						19.176	24.056	20.932	22.942	400.650
Treatment Prob(F)						0.0001	0.0001	0.0001	0.0006	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	LAMPU	ERYRE	CAPBP	AMBTR	STEME
Pest Scientific Name	Lamium purpure>	Erysimum repan>	Capsella bursa>	Ambrosia trifi>	Stellaria media
Pest Name	Purple deadnet>	Bushy wallflow>	Shepherd's pur>	Giant ragweed	Common chickwe>
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	5/13/11	5/13/11	5/13/11	5/13/11	5/23/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Rating Timing					
Days After First/Last Applic.	29 29	29 29	29 29	29 29	39 39
Trt-Eval Interval	29 DA-A	29 DA-A	29 DA-A	29 DA-A	39 DA-A
Plant-Eval Interval	-9 DP-1	-9 DP-1	-9 DP-1	-9 DP-1	1 DP-1
Days After Emergence	-19 DE-1	-19 DE-1	-19 DE-1	-19 DE-1	-9 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit Code	6	7	8	9	10
1	Corvus	2.63	5.6 oz/a		A	100	100	97	95	100
1	Atrazine	4	1.5 qt/a		A					
1	COC	100	0.6 qt/a		A					
2	Corvus	2.63	5.6 oz/a		A	100	100	100	100	100
2	Atrazine	4	1.5 qt/a		A					
2	Roundup PowerMax	4.5	22 oz/a		A					
3	Corvus	2.63	5.6 oz/a		A	94	99	100	100	95
3	Atrazine	4	1.5 qt/a		A					
3	Ignite	2.34	22 oz/a		A					
4	Corvus	2.63	5.6 oz/a		A	83	100	100	87	88
4	Sharpen	2.85	1 oz/a		A					
4	MSO	100	0.6 qt/a		A					
5	Lexar	3.7	3 qt/a		A	100	100	100	97	88
6	Surestart	4.25	3 pt/a		A	88	95	97	85	100
6	Durango DMA	4	24 oz/a		A					
6	2,4-D Amine	4	1 pt/a		A					
6	N-PAK AMS	100	1.5 qt/a		A					
6	Durango DMA	4	24 oz/a		B					
6	N-PAK AMS	100	1.5 qt/a		B					
7	Surestart	4.25	3 pt/a		A	97	100	100	97	97
7	Atrazine	4	1 qt/a		A					
7	Durango DMA	4	24 oz/a		A					
7	2,4-D Amine	4	1 pt/a		A					
7	N-PAK AMS	100	1.5 qt/a		A					
7	Durango DMA	4	24 oz/a		B					
7	N-PAK AMS	100	1.5 qt/a		B					
8	UTC					0	0	0	0	0
LSD (P=.05)						11.1	4.0	4.2	16.9	12.7
Standard Deviation						6.3	2.2	2.4	9.7	7.2
CV						7.66	2.53	2.78	11.71	8.68
Bartlett's X2						0.761	0.0	0.866	4.848	1.938
P(Bartlett's X2)						0.859	.	0.352	0.303	0.585
Replicate F						0.858	1.123	0.179	1.038	2.042
Replicate Prob(F)						0.4451	0.3671	0.8376	0.3798	0.1666
Treatment F						86.229	768.087	635.077	36.746	66.422
Treatment Prob(F)						0.0001	0.0001	0.0001	0.0001	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	LAMPU	ERYRE	CAPBP	AMBTR	SETFA
Pest Scientific Name	Lamium purpure>	Erysimum repan>	Capsella bursa>	Ambrosia trifi>	Setaria faberi
Pest Name	Purple deadnet>	Bushy wallflow>	Shepherd's pur>	Giant ragweed	Giant foxtail
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	5/23/11	5/23/11	5/23/11	5/23/11	5/23/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Rating Timing					
Days After First/Last Applic.	39 39	39 39	39 39	39 39	39 39
Trt-Eval Interval	39 DA-A	39 DA-A	39 DA-A	39 DA-A	39 DA-A
Plant-Eval Interval	1 DP-1	1 DP-1	1 DP-1	1 DP-1	1 DP-1
Days After Emergence	-9 DE-1	-9 DE-1	-9 DE-1	-9 DE-1	-9 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit Code	11	12	13	14	15
1	Corvus	2.63	5.6 oz/a		A	100	100	100	85	88
1	Atrazine	4	1.5 qt/a		A					
1	COC	100	0.6 qt/a		A					
2	Corvus	2.63	5.6 oz/a		A	100	100	100	91	97
2	Atrazine	4	1.5 qt/a		A					
2	Roundup PowerMax	4.5	22 oz/a		A					
3	Corvus	2.63	5.6 oz/a		A	100	99	100	82	94
3	Atrazine	4	1.5 qt/a		A					
3	Ignite	2.34	22 oz/a		A					
4	Corvus	2.63	5.6 oz/a		A	87	100	100	58	95
4	Sharpen	2.85	1 oz/a		A					
4	MSO	100	0.6 qt/a		A					
5	Lexar	3.7	3 qt/a		A	100	100	100	85	98
6	Surestart	4.25	3 pt/a		A	95	100	98	78	91
6	Durango DMA	4	24 oz/a		A					
6	2,4-D Amine	4	1 pt/a		A					
6	N-PAK AMS	100	1.5 qt/a		A					
6	Durango DMA	4	24 oz/a		B					
6	N-PAK AMS	100	1.5 qt/a		B					
7	Surestart	4.25	3 pt/a		A	98	100	100	78	85
7	Atrazine	4	1 qt/a		A					
7	Durango DMA	4	24 oz/a		A					
7	2,4-D Amine	4	1 pt/a		A					
7	N-PAK AMS	100	1.5 qt/a		A					
7	Durango DMA	4	24 oz/a		B					
7	N-PAK AMS	100	1.5 qt/a		B					
8	UTC					0	0	0	0	0
LSD (P=.05)						11.1	0.7	1.8	36.5	8.2
Standard Deviation						6.3	0.4	1.0	20.8	4.7
CV						7.43	0.42	1.17	29.87	5.77
Bartlett's X2						3.955	0.0	0.0	4.366	4.449
P(Bartlett's X2)						0.138	.	.	0.627	0.487
Replicate F						0.940	1.846	1.000	0.385	0.643
Replicate Prob(F)						0.4138	0.2130	0.3927	0.6872	0.5408
Treatment F						90.328	27145.657	3583.858	6.131	149.472
Treatment Prob(F)						0.0001	0.0001	0.0001	0.0020	0.0001

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Pest Code	ERICA	SETFA	AMBTR	AMBEL	SETFA
Pest Scientific Name	Conyza canadens>	Setaria faberi	Ambrosia trifid>	Ambrosia artem>	Setaria faberi
Pest Name	Canada horsewe>	Giant foxtail	Giant ragweed	Common ragweed	Giant foxtail
Crop Code					ZEAMX
BBCH Scale					BCOR
Crop Scientific Name					Zea mays
Crop Name					Corn
Rating Date	6/1/11	6/1/11	6/1/11	6/1/11	6/9/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Rating Timing					
Days After First/Last Applic.	48 48	48 48	48 48	48 48	56 56
Trt-Eval Interval	48 DA-A	48 DA-A	48 DA-A	48 DA-A	56 DA-A
Plant-Eval Interval	10 DP-1	10 DP-1	10 DP-1	10 DP-1	18 DP-1
Days After Emergence	0 DE-1	0 DE-1	0 DE-1	0 DE-1	8 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit Code	16	17	18	19	20	21
1	Corvus	2.63	5.6 oz/a		A	98	63	77	82	0	0
	1 Atrazine	4	1.5 qt/a		A						
	1 COC	100	0.6 qt/a		A						
2	Corvus	2.63	5.6 oz/a		A	100	73	78	95	0	30
	2 Atrazine	4	1.5 qt/a		A						
	2 Roundup PowerMax	4.5	22 oz/a		A						
3	Corvus	2.63	5.6 oz/a		A	97	73	73	87	0	23
	3 Atrazine	4	1.5 qt/a		A						
	3 Ignite	2.34	22 oz/a		A						
4	Corvus	2.63	5.6 oz/a		A	93	70	53	68	0	13
	4 Sharpen	2.85	1 oz/a		A						
	4 MSO	100	0.6 qt/a		A						
5	Lexar	3.7	3 qt/a		A	100	73	78	85	0	47
6	Surestart	4.25	3 pt/a		A	95	68	70	68	0	27
	6 Durango DMA	4	24 oz/a		A						
	6 2,4-D Amine	4	1 pt/a		A						
	6 N-PAK AMS	100	1.5 qt/a		A						
	6 Durango DMA	4	24 oz/a		B						
	6 N-PAK AMS	100	1.5 qt/a		B						
7	Surestart	4.25	3 pt/a		A	97	63	63	63	0	7
	7 Atrazine	4	1 qt/a		A						
	7 Durango DMA	4	24 oz/a		A						
	7 2,4-D Amine	4	1 pt/a		A						
	7 N-PAK AMS	100	1.5 qt/a		A						
	7 Durango DMA	4	24 oz/a		B						
	7 N-PAK AMS	100	1.5 qt/a		B						
8	UTC					0	0	0	0	0	0
LSD (P=.05)						8.4	16.4	24.4	31.9	0.0	33.7
Standard Deviation						4.7	9.4	13.9	18.2	0.0	19.2
CV						5.57	15.47	22.56	26.61	0.0	104.87
Bartlett's X2						1.56	3.031	3.127	8.56	0.0	2.966
P(Bartlett's X2)						0.816	0.805	0.793	0.20	.	0.705
Replicate F						0.557	0.675	0.490	0.041	0.000	0.485
Replicate Prob(F)						0.5859	0.5249	0.6230	0.9602	1.0000	0.6258
Treatment F						158.441	21.061	10.761	7.985	0.000	2.164
Treatment Prob(F)						0.0001	0.0001	0.0001	0.0005	1.0000	0.1037

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed					
Pest Code	AMBTR	AMBEL	ERICA	SETFA	ERICA					
Pest Scientific Name	Ambrosia trifi>	Ambrosia artem>	Conyza canad>	Setaria faberi	Conyza canad>					
Pest Name	Giant ragweed	Common ragweed	Canada horsewe>	Giant foxtail	Canada horsewe>					
Crop Code										
BBCH Scale										
Crop Scientific Name										
Crop Name										
Rating Date	6/9/11	6/9/11	6/9/11	6/28/11	6/28/11					
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO					
Rating Unit	%	%	%	%	%					
Number of Subsamples	1	1	1	1	1					
Rating Timing	AT POST									
Days After First/Last Applic.	56 56	56 56	56 56	75 15	75 15					
Trt-Eval Interval	56 DA-A	56 DA-A	56 DA-A	56 DA-A	56 DA-A					
Plant-Eval Interval	18 DP-1	18 DP-1	18 DP-1	37 DP-1	37 DP-1					
Days After Emergence	8 DE-1	8 DE-1	8 DE-1	27 DE-1	27 DE-1					
Number of Decimals	0	0	0	0	0					
Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit Code	22	23	24	25	26
1	Corvus	2.63	5.6 oz/a		A	30	50	73	100	63
1	Atrazine	4	1.5 qt/a		A					
1	COC	100	0.6 qt/a		A					
2	Corvus	2.63	5.6 oz/a		A	47	83	83	96	67
2	Atrazine	4	1.5 qt/a		A					
2	Roundup PowerMax	4.5	22 oz/a		A					
3	Corvus	2.63	5.6 oz/a		A	43	70	83	100	72
3	Atrazine	4	1.5 qt/a		A					
3	Ignite	2.34	22 oz/a		A					
4	Corvus	2.63	5.6 oz/a		A	10	27	67	100	57
4	Sharpen	2.85	1 oz/a		A					
4	MSO	100	0.6 qt/a		A					
5	Lexar	3.7	3 qt/a		A	40	47	60	97	54
6	Surestart	4.25	3 pt/a		A	23	27	47	100	53
6	Durango DMA	4	24 oz/a		A					
6	2,4-D Amine	4	1 pt/a		A					
6	N-PAK AMS	100	1.5 qt/a		A					
6	Durango DMA	4	24 oz/a		B					
6	N-PAK AMS	100	1.5 qt/a		B					
7	Surestart	4.25	3 pt/a		A	20	33	80	98	63
7	Atrazine	4	1 qt/a		A					
7	Durango DMA	4	24 oz/a		A					
7	2,4-D Amine	4	1 pt/a		A					
7	N-PAK AMS	100	1.5 qt/a		A					
7	Durango DMA	4	24 oz/a		B					
7	N-PAK AMS	100	1.5 qt/a		B					
8	UTC					0	0	0	100	27
LSD (P=.05)		29.2					39.6	24.1	5.1	20.5
Standard Deviation		16.7					22.6	13.7	2.9	11.6
CV		62.52					53.79	22.16	2.94	20.38
Bartlett's X2		1.373					1.897	4.401	2.802	7.099
P(Bartlett's X2)		0.849					0.863	0.623	0.246	0.312
Replicate F		0.195					0.154	2.935	0.548	2.795
Replicate Prob(F)		0.8251					0.8583	0.0888	0.5898	0.0978
Treatment F		2.946					4.087	12.563	1.004	4.240
Treatment Prob(F)		0.0405					0.0120	0.0001	0.4681	0.0120



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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	AMBEL	SETFA	AMBTR	AMBEL
Pest Scientific Name	Ambrosia trifi>	Ambrosia artem>	Setaria faberi	Ambrosia trifi>	Ambrosia artem>
Pest Name	Giant ragweed	Common ragweed	Giant foxtail	Giant ragweed	Common ragweed
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	6/28/11	6/28/11	7/11/11	7/11/11	7/11/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Rating Timing					
Days After First/Last Applic.	75 15	75 15	88 28	88 28	88 28
Trt-Eval Interval	15 DA-B	15 DA-B	15 DA-B	28 DA-B	28 DA-B
Plant-Eval Interval	37 DP-1	37 DP-1	50 DP-1	50 DP-1	50 DP-1
Days After Emergence	27 DE-1	27 DE-1	40 DE-1	40 DE-1	40 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit Code	27	28	29	30	31
1	Corvus	2.63	5.6 oz/a		A	100	100	85	90	100
1	Atrazine	4	1.5 qt/a		A					
1	COC	100	0.6 qt/a		A					
2	Corvus	2.63	5.6 oz/a		A	100	100	77	100	100
2	Atrazine	4	1.5 qt/a		A					
2	Roundup PowerMax	4.5	22 oz/a		A					
3	Corvus	2.63	5.6 oz/a		A	100	100	73	83	100
3	Atrazine	4	1.5 qt/a		A					
3	Ignite	2.34	22 oz/a		A					
4	Corvus	2.63	5.6 oz/a		A	100	100	63	80	100
4	Sharpen	2.85	1 oz/a		A					
4	MSO	100	0.6 qt/a		A					
5	Lexar	3.7	3 qt/a		A	100	100	72	87	100
6	Surestart	4.25	3 pt/a		A	93	100	85	73	100
6	Durango DMA	4	24 oz/a		A					
6	2,4-D Amine	4	1 pt/a		A					
6	N-PAK AMS	100	1.5 qt/a		A					
6	Durango DMA	4	24 oz/a		B					
6	N-PAK AMS	100	1.5 qt/a		B					
7	Surestart	4.25	3 pt/a		A	99	100	80	62	100
7	Atrazine	4	1 qt/a		A					
7	Durango DMA	4	24 oz/a		A					
7	2,4-D Amine	4	1 pt/a		A					
7	N-PAK AMS	100	1.5 qt/a		A					
7	Durango DMA	4	24 oz/a		B					
7	N-PAK AMS	100	1.5 qt/a		B					
8	UTC					97	100	57	93	100
	LSD (P=.05)					5.4	0.0	18.7	30.5	0.0
	Standard Deviation					3.1	0.0	10.7	17.4	0.0
	CV					3.14	0.0	14.43	20.87	0.0
	Bartlett's X2					4.626	0.0	7.492	2.166	0.0
	P(Bartlett's X2)					0.099	.	0.38	0.904	.
	Replicate F					2.686	0.000	1.272	0.209	0.000
	Replicate Prob(F)					0.1029	1.0000	0.3108	0.8139	1.0000
	Treatment F					1.865	0.000	2.655	1.429	0.000
	Treatment Prob(F)					0.1520	1.0000	0.0569	0.2694	1.0000

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Pest Type	W Weed
Pest Code	ERICA
Pest Scientific Name	Conyza canadens>
Pest Name	Canada horsewe>
Crop Code	
BBCH Scale	
Crop Scientific Name	
Crop Name	
Rating Date	7/11/11
Rating Type	CONTRO
Rating Unit	%
Number of Subsamples	1
Rating Timing	
Days After First/Last Applic.	88 28
Trt-Eval Interval	28 DA-B
Plant-Eval Interval	50 DP-1
Days After Emergence	40 DE-1
Number of Decimals	0

Trt	Treatment	Form	Other	Other	Appl	32
No.	Name	Conc	Rate	Rate	Unit	Code
1	Corvus	2.63	5.6 oz/a		A	55
1	Atrazine	4	1.5 qt/a		A	
1	COC	100	0.6 qt/a		A	
2	Corvus	2.63	5.6 oz/a		A	53
2	Atrazine	4	1.5 qt/a		A	
2	Roundup PowerMax	4.5	22 oz/a		A	
3	Corvus	2.63	5.6 oz/a		A	63
3	Atrazine	4	1.5 qt/a		A	
3	Ignite	2.34	22 oz/a		A	
4	Corvus	2.63	5.6 oz/a		A	47
4	Sharpen	2.85	1 oz/a		A	
4	MSO	100	0.6 qt/a		A	
5	Lexar	3.7	3 qt/a		A	39
6	Surestart	4.25	3 pt/a		A	30
6	Durango DMA	4	24 oz/a		A	
6	2,4-D Amine	4	1 pt/a		A	
6	N-PAK AMS	100	1.5 qt/a		A	
6	Durango DMA	4	24 oz/a		B	
6	N-PAK AMS	100	1.5 qt/a		B	
7	Surestart	4.25	3 pt/a		A	50
7	Atrazine	4	1 qt/a		A	
7	Durango DMA	4	24 oz/a		A	
7	2,4-D Amine	4	1 pt/a		A	
7	N-PAK AMS	100	1.5 qt/a		A	
7	Durango DMA	4	24 oz/a		B	
7	N-PAK AMS	100	1.5 qt/a		B	
8	UTC					30
LSD (P=.05)						15.5
Standard Deviation						8.8
CV						19.15
Bartlett's X2						2.672
P(Bartlett's X2)						0.75
Replicate F						5.123
Replicate Prob(F)						0.0229
Treatment F						5.606
Treatment Prob(F)						0.0038

# Ohio State University Horticulture and Crop Science

## NO-TILL BURNDOWN AND RESIDUAL IN CORN

Title No. 2:

Trial ID: 11NTC3

Location: WESTERN BRANCH F-9 E

Project ID:

Protocol ID: 11NTC3

Study Director: Anthony F. Dobbels

Investigator: Dr. Mark M. Loux

Sponsor Contact: Dave Lamore, Bayer CropScience

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

STEME, Stellaria media, = US

LAMPU, Lamium purpureum, = US

CAPBP, Capsella bursa-pastoris, = US

ERYRE, Erysimum repandum, = US

AMBTR, Ambrosia trifida, = US

SETFA, Setaria faberi, = US

ERICA, Conyza canadensis, = US

AMBEL, Ambrosia artemisiifolia, = 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

-23 DP-1 = 1 5/22/11

-9 DP-1 = 1 5/22/11

1 DP-1 = 1 5/22/11

10 DP-1 = 1 5/22/11

18 DP-1 = 1 5/22/11

37 DP-1 = 1 5/22/11

50 DP-1 = 1 5/22/11