

Purdue University

Performance of Harness and Degee applied mid-POST to corn

Trial ID: 08S-THP-CTC-34 Protocol ID: 08S-THP-CTC-34
 Location: Throckmorton Study Director: Melissa Kruger
 Project ID: Investigator: Dr. Bill Johnson
 Sponsor Contact:

General Trial Information

Study Director: Melissa Kruger **Title:** Lab Technician VII
Investigator: Dr. William G. Johnson **Title:** Associate Professor

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 4/22/2008 **Planned Completion Date:** 7/23/2008

Trial Location

City: Lafayette USA
State/Prov.: IN
Postal Code: 47909
Country: USA United States

Objectives:

The objective of the trial is to evaluate the performance of Harness and Degree on weed control, crop safety and yield when applied as a sequential treatment when corn is 20 (V6) and 30 (V8) inches tall.

Personnel

Study Director: Melissa Kruger **Title:** Lab Technician VII
Affiliation: Purdue University
Address: 915 W. State St.
Location: West Lafayette, IN USA
Postal Code: 47907 **E-mail:** mmkruger@purdue.edu
Phone No.: 765-494-4621
Investigator: Dr. William G. Johnson **Title:** Associate Professor
Affiliation: Purdue University
Address: 915 W. State St.
Location: West Lafayette, IN USA
Postal Code: 47907 **E-mail:** wgj@purdue.edu
Phone No.: 765-494-4656

Cooperator/Landowner

Cooperator: Throckmorton Purdue Ag Center **Role:** Purdue Ag Center
Organization: Purdue University
Address 1: 8343 US 231 S
City: Lafayette **Phone No.:** 765-538-3422
State/Prov: IN **Fax No.:** 765-538-3423
Postal Code: 47909 **E-mail:** jayyoung@purdue.edu
Country: US

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: Pioneer 34A20 **Description:** JD 7200; RR/LL
BBCH Scale: BCOR **Planting Date:** 5/22/2008
Planting Method: DIRDRI direct drilled **Rate, Unit:** 32000 S/A
Depth, Unit: 2 IN
Row Spacing, Unit: 30 IN
Soil Temperature, Unit: 18 C
Soil Moisture: MOIST **Emergence Date:** 5/5/2008
Harvest Date: 10/31/2008 **Harvest Equipment:** Gleaner F Combine
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 25 FT
% Standard Moisture: 15.5 **Moisture Meter:** Harvest Master
Weighing Equipment: Carter Manufacturing

Pest Description

Pest 1 Type: W **Code:** SETFA **Setaria faberi**
Common Name: Giant foxtail

Pest 2 Type: W **Code:** CHEAL *Chenopodium album*
Common Name: Common lambsquarters

Pest 3 Type: W **Code:** ABUTH *Abutilon theophrasti*
Common Name: Velvetleaf

Pest 4 Type: W **Code:** AMBTR *Ambrosia trifida*
Common Name: Giant ragweed

Pest 5 Type: W **Code:** SOLPT *Solanum ptycanthum*
Common Name: Eastern black nightshade

Pest 6 Type: W **Code:** THLAR *Thlaspi arvense*
Common Name: Field pennycress

Pest 7 Type: W **Code:** CAPBP *Capsella bursa-pastoris*
Common Name: Shepherd's purse

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD field
Plot Length, Unit: 30 FT
Plot Area, Unit: 300 FT2 **Tillage Type:** CONTIL conventional-till
Replications: 4 **Study Design:** RACOB� Randomized Complete Block (RCB)
Untreated Arrangement: INCLUDED single control randomized in each block

Field Prep./Maintenance:
 Fall field was chisel plowed once

Spring field was disked once and field cultivated once on 4/22/08

Soil Description

Description Name: Field 4A
% OM: 3.1 **Texture:** SIL silt loam
pH: 6 **Soil Name:** Toronto-Millbrook
CEC: 11.1

Analyzed By:
 A&L Great Lakes Laboratories, Inc. Report #: F04048-0006

Additional Measured Elements

Element	Quantity	Unit
P	53	ppm
K	208	ppm
Mg	325	ppm
Ca	1100	ppm

Moisture and Weather Conditions

Closest Weather Station: On research farm **Distance, Unit:** 0.5 MI

Application Description

	A	B	C
Application Date:	5/22/2008	6/11/2008	6/23/2008
Time of Day:	4:53 PM	7:20 AM	8:05 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PREPRE	POSPOS	POSPOS
Application Placement:	BROSOL	BROFOL	BROFOL
Applied By:	VD VM	PM MK	CM VM MK
Air Temperature, Unit:	80 F	68 F	62 F
% Relative Humidity:	59	78	86
Wind Velocity, Unit:	0 MPH	4 MPH	1 MPH
Wind Direction:		S	N
Dew Presence (Y/N):	N no	Y yes	Y yes
Soil Temperature, Unit:	18 C	65 F	62 F
Soil Moisture:	Dry	Moist	Dry
% Cloud Cover:	80	0	0

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BCOR	BCOR	BCOR
Stage Majority, Percent:	N/A	V6	V8
Stage Minimum, Percent:		V5	V6
Stage Maximum, Percent:		V6	V8
Height, Unit:		18 IN	42 IN
Height Minimum, Maximum:		18 20	40 48

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	SETFA W	SETFA W	SETFA W
Height, Unit:		7 IN	12 IN
Height Minimum, Maximum:		0 15	2 20
Density, Unit:		150 YD2	175 YD2
Pest 2 Code, Type, Scale:	CHEAL W	CHEAL W	CHEAL W
Height, Unit:		3 IN	18 IN
Height Minimum, Maximum:		0 6	2 28
Density, Unit:		7 YD2	7 YD2
Pest 3 Code, Type, Scale:	ABUTH W	ABUTH W	ABUTH W
Height, Unit:		5 IN	10 IN
Height Minimum, Maximum:		0 9	2 24
Density, Unit:		10 YD2	5 YD2
Pest 4 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W
Height, Unit:		5 IN	
Height Minimum, Maximum:		0 9	
Density, Unit:		1 YD2	
Pest 5 Code, Type, Scale:	SOLPT W	SOLPT W	SOLPT W
Height, Unit:		2 IN	
Height Minimum, Maximum:		0 6	
Density, Unit:		1 YD2	
Pest 6 Code, Type, Scale:	THLAR W	THLAR W	THLAR W
Height, Unit:		4 IN	
Height Minimum, Maximum:		2 6	
Density, Unit:		3 YD2	
Pest 7 Code, Type, Scale:	CAPBP W	CAPBP W	CAPBP W
Height, Unit:		4 IN	
Height Minimum, Maximum:		2 6	
Density, Unit:		3 YD2	

Application Equipment

	A	B	C
Appl. Equipment:	CO2 Backpack	CO2 Backpack	CO2 Backpack
Operating Pressure, Unit:	17 PSI	17 PSI	17 PSI
Nozzle Type:	Flat Fan	Flat Fan	Flat Fan
Nozzle Size:	XR11002	XR11002	XR11002
Nozzle Spacing, Unit:	15 IN	15 IN	15 IN
Nozzles/Row:	8	8	8
Boom Length, Unit:	10 FT	10 FT	10 FT
Boom Height, Unit:	18 IN	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH
Carrier:	H2O	H2O	H2O
Water Hardness (ppm CaCO3):	150	150	150
Spray Volume, Unit:	15 GAL/AC	15 GAL/AC	15 GAL/AC
Mix Size, Unit:	1.8 Liters	1.8 Liters	1.8 Liters
Propellant:	CO2	CO2	CO2
Tank Mix (Y/N):	N no	N no	N no

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Trial ID: 08S-THP-CTC-34 Protocol ID: 08S-THP-CTC-34
 Location: Throckmorton Study Director: Melissa Kruger
 Project ID: Investigator: Dr. Bill Johnson
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed			W Weed			
Pest Code	SETFA	CHEAL	ABUTH			SETFA			
Pest Scientific Name	Setaria faberi	Chenopodium al>	Abutilon theop>			Setaria faberi			
Pest Name	Giant foxtail	Common lambsqu>	Velvetleaf			Giant foxtail			
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX			
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR			
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays			
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn			
Crop Variety	Pioneer 34A20	Pioneer 34A20	Pioneer 34A20	Pioneer 34A20	Pioneer 34A20	Pioneer 34A20			
Description	JD 7200; RR/LL	JD 7200; RR/LL	JD 7200; RR/LL	JD 7200; RR/LL	JD 7200; RR/LL	JD 7200; RR/LL			
Part Rated	PLOT P	PLOT P	PLOT P	PLOT C	PLOT C	PLOT P			
Rating Date	6/11/2008	6/11/2008	6/11/2008	6/16/2008	6/23/2008	6/23/2008			
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN	PHYGEN	CONTRO			
Rating Unit	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1			
Crop Stage Majority	V6	V6	V6	V7	V7	V7			
Crop Stage Minimum/Maximum	15-20"	15-20"	15-20"	24-30"	40-48"	40-48"			
Pest Stage Minimum/Maximum	0-15"	0-9"	0-8"			2-20"			
Pest Density, Unit	100 YD2	7 YD2	5 YD2			175 YD2			
Assessed By	VD/VM	VD/VM	VD/VM	JM/PM	MK/JM	MK/JM			
Days After First/Last Applic.	20 0	20 0	20 0	25 5	32 0	32 0			
Trt-Eval Interval	20 DA-A	20 DA-A	20 DA-A	25 DA-A					
Plant-Eval Interval	20 DP-1	20 DP-1	20 DP-1	25 DP-1	32 DP-1	32 DP-1			
Days After Emergence	37 DE-	37 DE-	37 DE-	42 DE-	49 DE-	49 DE-			
ARM Action Codes									
Number of Decimals									
Trt Treatment	Rate	Rate	Rate	Rate	Rate	Rate			
No. Name	Rate	Unit	Code	1	2	3	4	5	6
1 Untreated				0.0 b	0.0 b	0.0 b	0.0 a	0.0 a	0.0 b
2 Degree Xtra	2 lb ai/a	A		99.5 a	100.0 a	96.5 a	0.0 a	0.0 a	100.0 a
Roundup Original MAX	0.75 lb ae/a	B							
Ammonium Sulfate - Premium	2 % w/w	B							
3 Degree Xtra	2 lb ai/a	A		100.0 a	100.0 a	95.0 a	0.0 a	0.0 a	100.0 a
Degree	1.43 lb ai/a	B							
Roundup Original MAX	0.75 lb ae/a	B							
Ammonium Sulfate - Premium	2 % w/w	B							
4 Degree Xtra	2 lb ai/a	A		99.5 a	100.0 a	94.3 a	0.0 a	0.0 a	100.0 a
Degree	2.85 lb ai/a	B							
Roundup Original MAX	0.75 lb ae/a	B							
Ammonium Sulfate - Premium	2 % w/w	B							
5 Degree Xtra	2 lb ai/a	A		99.5 a	100.0 a	97.0 a	0.0 a	0.0 a	100.0 a
Degree	1.43 lb ai/a	C							
Roundup Original MAX	0.75 lb ae/a	C							
Ammonium Sulfate - Premium	2 % w/w	C							
6 Degree Xtra	2 lb ai/a	A		99.8 a	100.0 a	98.3 a	0.0 a	0.0 a	100.0 a
Degree	2.85 lb ai/a	C							
Roundup Original MAX	0.75 lb ae/a	C							
Ammonium Sulfate - Premium	2 % w/w	C							
7 Degree Xtra	2 lb ai/a	A		99.8 a	100.0 a	97.3 a	0.0 a	0.0 a	100.0 a
Callisto	0.094 lb ai/a	B							
Roundup Original MAX	0.75 lb ae/a	B							
Ammonium Sulfate - Premium	2 % w/w	B							
8 Degree Xtra	2 lb ai/a	A		99.8 a	100.0 a	95.3 a	0.0 a	0.0 a	100.0 a
Status	0.095 lb ai/a	B							
Roundup Original MAX	0.75 lb ae/a	B							
Ammonium Sulfate - Premium	2 % w/w	B							

Pest Type	W Weed	W Weed		W Weed	W Weed	W Weed
Pest Code	CHEAL	ABUTH		SETFA	CHEAL	ABUTH
Pest Scientific Name	Chenopodium al>	Abutilon theop>		Setaria faberi	Chenopodium al>	Abutilon theop>
Pest Name	Common lambsqu>	Velvetleaf		Giant foxtail	Common lambsqu>	Velvetleaf
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn
Crop Variety	Pioneer 34A20	Pioneer 34A20	Pioneer 34A20	Pioneer 34A20	Pioneer 34A20	Pioneer 34A20
Description	JD 7200; RR/LL	JD 7200; RR/LL	JD 7200; RR/LL	JD 7200; RR/LL	JD 7200; RR/LL	JD 7200; RR/LL
Part Rated	PLOT P	PLOT P	PLOT C	PLOT P	PLOT P	PLOT P
Rating Date	6/23/2008	6/23/2008	7/2/2008	7/9/2008	7/9/2008	7/9/2008
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Crop Stage Majority	V7	V7	V10	V11-12	V11-12	V11-12
Crop Stage Minimum/Maximum	40-48"	40-48"	60-72"	6.5-7'	6.5-7'	6.5-7'
Pest Stage Minimum/Maximum	2-28"	2-24"		20-48"	20-55"	12-40"
Pest Density, Unit	7 YD2	6 YD2		175 YD2	6 YD2	5 YD2
Assessed By	MK/JM	MK/JM	AR/JM	MK VM	MK VM	MK VM
Days After First/Last Applic.	32 0	32 0	41 9	48 16	48 16	48 16
Trt-Eval Interval						
Plant-Eval Interval	32 DP-1	32 DP-1	41 DP-1	48 DP-1	48 DP-1	48 DP-1
Days After Emergence	49 DE-	49 DE-	58 DE-	65 DE-	65 DE-	65 DE-
ARM Action Codes						
Number of Decimals						
Trt Treatment	Rate	Rate	Rate	Rate	Rate	Rate
No. Name	Rate	Unit	Code			
1 Untreated	0.0	b		7	8	9
2 Degree Xtra	2 lb ai/a	A		10	11	12
Roundup Original MAX	0.75 lb ae/a	B				
Ammonium Sulfate - Premium	2 % w/w	B				
3 Degree Xtra	2 lb ai/a	A				
Degree	1.43 lb ai/a	B				
Roundup Original MAX	0.75 lb ae/a	B				
Ammonium Sulfate - Premium	2 % w/w	B				
4 Degree Xtra	2 lb ai/a	A				
Degree	2.85 lb ai/a	B				
Roundup Original MAX	0.75 lb ae/a	B				
Ammonium Sulfate - Premium	2 % w/w	B				
5 Degree Xtra	2 lb ai/a	A				
Degree	1.43 lb ai/a	C				
Roundup Original MAX	0.75 lb ae/a	C				
Ammonium Sulfate - Premium	2 % w/w	C				
6 Degree Xtra	2 lb ai/a	A				
Degree	2.85 lb ai/a	C				
Roundup Original MAX	0.75 lb ae/a	C				
Ammonium Sulfate - Premium	2 % w/w	C				
7 Degree Xtra	2 lb ai/a	A				
Callisto	0.094 lb ai/a	B				
Roundup Original MAX	0.75 lb ae/a	B				
Ammonium Sulfate - Premium	2 % w/w	B				
8 Degree Xtra	2 lb ai/a	A				
Status	0.095 lb ai/a	B				
Roundup Original MAX	0.75 lb ae/a	B				
Ammonium Sulfate - Premium	2 % w/w	B				

Pest Type	W Weed	W Weed	W Weed		
Pest Code	SETFA	CHEAL	ABUTH		
Pest Scientific Name	Setaria faberi	Chenopodium al>	Abutilon theop>		
Pest Name	Giant foxtail	Common lambsqu>	Velvetleaf		
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn	Corn	Corn
Crop Variety	Pioneer 34A20	Pioneer 34A20	Pioneer 34A20	Pioneer 34A20	Pioneer 34A20
Description	JD 7200; RR/LL	JD 7200; RR/LL	JD 7200; RR/LL	JD 7200; RR/LL	JD 7200; RR/LL
Part Rated	PLOT P	PLOT P	PLOT P	PLOT C	PLOT C
Rating Date	7/23/2008	7/23/2008	7/23/2008	10/31/2008	10/31/2008
Rating Type	CONTRO	CONTRO	CONTRO	YIELD	YIELD
Rating Unit	%	%	%	lb/ac	BU
Number of Subsamples	1	1	1	1	1
Crop Stage Majority	R2	R2	R2	Mature	Mature
Crop Stage Minimum/Maximum	7-8'	7-8'	7-8'		
Pest Stage Minimum/Maximum	48-72"	12-72"	18-50"		
Pest Density, Unit	75 YD2	6 YD2	3 YD2		
Assessed By	VM JM	VM JM	VM JM	PM	PM
Days After First/Last Applic.	62 30	62 30	62 30	162 130	162 130
Trt-Eval Interval					
Plant-Eval Interval	62 DP-1	62 DP-1	62 DP-1	162 DP-1	162 DP-1
Days After Emergence	79 DE-	79 DE-	79 DE-	179 DE	179 DE
ARM Action Codes					TY1
Number of Decimals					1
Trt No.	Treatment	Rate	Appl		
	Name	Rate Unit	Code	13	14
1	Untreated			0.0 b	0.0 b
2	Degree Xtra	2 lb ai/a A		100.0 a	100.0 a
	Roundup Original MAX	0.75 lb ae/a B			
	Ammonium Sulfate - Premium	2 % w/w B			
3	Degree Xtra	2 lb ai/a A		100.0 a	100.0 a
	Degree	1.43 lb ai/a B			
	Roundup Original MAX	0.75 lb ae/a B			
	Ammonium Sulfate - Premium	2 % w/w B			
4	Degree Xtra	2 lb ai/a A		100.0 a	100.0 a
	Degree	2.85 lb ai/a B			
	Roundup Original MAX	0.75 lb ae/a B			
	Ammonium Sulfate - Premium	2 % w/w B			
5	Degree Xtra	2 lb ai/a A		99.8 a	100.0 a
	Degree	1.43 lb ai/a C			
	Roundup Original MAX	0.75 lb ae/a C			
	Ammonium Sulfate - Premium	2 % w/w C			
6	Degree Xtra	2 lb ai/a A		100.0 a	100.0 a
	Degree	2.85 lb ai/a C			
	Roundup Original MAX	0.75 lb ae/a C			
	Ammonium Sulfate - Premium	2 % w/w C			
7	Degree Xtra	2 lb ai/a A		100.0 a	100.0 a
	Callisto	0.094 lb ai/a B			
	Roundup Original MAX	0.75 lb ae/a B			
	Ammonium Sulfate - Premium	2 % w/w B			
8	Degree Xtra	2 lb ai/a A		100.0 a	100.0 a
	Status	0.095 lb ai/a B			
	Roundup Original MAX	0.75 lb ae/a B			
	Ammonium Sulfate - Premium	2 % w/w B			

Pest Type	W Weed	W Weed	W Weed			W Weed			
Pest Code	SETFA	CHEAL	ABUTH			SETFA			
Pest Scientific Name	Setaria faberi	Chenopodium al>	Abutilon theop>			Setaria faberi			
Pest Name	Giant foxtail	Common lambsqu>	Velvetleaf			Giant foxtail			
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX			
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR			
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays			
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn			
Crop Variety	Pioneer 34A20	Pioneer 34A20	Pioneer 34A20	Pioneer 34A20	Pioneer 34A20	Pioneer 34A20			
Description	JD 7200; RR/LL	JD 7200; RR/LL	JD 7200; RR/LL	JD 7200; RR/LL	JD 7200; RR/LL	JD 7200; RR/LL			
Part Rated	PLOT P	PLOT P	PLOT P	PLOT C	PLOT C	PLOT P			
Rating Date	6/11/2008	6/11/2008	6/11/2008	6/16/2008	6/23/2008	6/23/2008			
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN	PHYGEN	CONTRO			
Rating Unit	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1			
Crop Stage Majority	V6	V6	V6	V7	V7	V7			
Crop Stage Minimum/Maximum	15-20"	15-20"	15-20"	24-30"	40-48"	40-48"			
Pest Stage Minimum/Maximum	0-15"	0-9"	0-8"			2-20"			
Pest Density, Unit	100 YD2	7 YD2	5 YD2			175 YD2			
Assessed By	VD/VM	VD/VM	VD/VM	JM/PM	MK/JM	MK/JM			
Days After First/Last Applic.	20 0	20 0	20 0	25 5	32 0	32 0			
Trt-Eval Interval	20 DA-A	20 DA-A	20 DA-A	25 DA-A					
Plant-Eval Interval	20 DP-1	20 DP-1	20 DP-1	25 DP-1	32 DP-1	32 DP-1			
Days After Emergence	37 DE-	37 DE-	37 DE-	42 DE-	49 DE-	49 DE-			
ARM Action Codes									
Number of Decimals									
Trt Treatment	Rate	Appl							
No. Name	Rate	Unit	Code	1	2	3	4	5	6
9 Degree Xtra	2 lb ai/a	A		100.0 a	100.0 a	96.5 a	0.0 a	0.0 a	100.0 a
Impact	0.011 lb ai/a	B							
Roundup Original MAX	0.75 lb ae/a	B							
Ammonium Sulfate - Premium	2 % w/w	B							
10 Degree Xtra	3.7 lb ai/a	A		100.0 a	100.0 a	98.3 a	0.0 a	0.0 a	100.0 a
11 Lexar	3.24 lb ai/a	A		100.0 a	100.0 a	100.0 a	0.0 a	0.0 a	100.0 a
12 Lexar	2.08 lb ai/a	A		99.3 a	100.0 a	99.8 a	0.0 a	0.0 a	100.0 a
Callisto	0.094 lb ai/a	B							
Roundup Original MAX	0.75 lb ae/a	B							
Ammonium Sulfate - Premium	2 % w/w	B							
LSD (P=.05)	0.61	0.00		3.54	0.00	0.00	0.00	0.00	0.00
Standard Deviation	0.42	0.00		2.45	0.00	0.00	0.00	0.00	0.00
CV	0.46	0.0		2.75	0.0	0.0	0.0	0.0	0.0
Bartlett's X2	0.202	0.0		32.976	0.0	0.0	0.0	0.0	0.0
P(Bartlett's X2)	1.00	.		0.001*
Replicate F	0.314	0.000		0.564	0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)	0.8149	1.0000		0.6427	1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F	18755.830	0.000		524.927	0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)	0.0001	1.0000		0.0001	1.0000	1.0000	1.0000	1.0000	1.0000

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Pest Type	W Weed	W Weed		W Weed	W Weed	W Weed			
Pest Code	CHEAL	ABUTH		SETFA	CHEAL	ABUTH			
Pest Scientific Name	Chenopodium al>	Abutilon theop>		Setaria faberi	Chenopodium al>	Abutilon theop>			
Pest Name	Common lambsqu>	Velvetleaf		Giant foxtail	Common lambsqu>	Velvetleaf			
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX			
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR			
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays			
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn			
Crop Variety	Pioneer 34A20	Pioneer 34A20	Pioneer 34A20	Pioneer 34A20	Pioneer 34A20	Pioneer 34A20			
Description	JD 7200; RR/LL	JD 7200; RR/LL	JD 7200; RR/LL	JD 7200; RR/LL	JD 7200; RR/LL	JD 7200; RR/LL			
Part Rated	PLOT P	PLOT P	PLOT C	PLOT P	PLOT P	PLOT P			
Rating Date	6/23/2008	6/23/2008	7/2/2008	7/9/2008	7/9/2008	7/9/2008			
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1			
Crop Stage Majority	V7	V7	V10	V11-12	V11-12	V11-12			
Crop Stage Minimum/Maximum	40-48"	40-48"	60-72"	6.5-7'	6.5-7'	6.5-7'			
Pest Stage Minimum/Maximum	2-28"	2-24"		20-48"	20-55"	12-40"			
Pest Density, Unit	7 YD2	6 YD2		175 YD2	6 YD2	5 YD2			
Assessed By	MK/JM	MK/JM	AR/JM	MK VM	MK VM	MK VM			
Days After First/Last Applic.	32 0	32 0	41 9	48 16	48 16	48 16			
Trt-Eval Interval									
Plant-Eval Interval	32 DP-1	32 DP-1	41 DP-1	48 DP-1	48 DP-1	48 DP-1			
Days After Emergence	49 DE-	49 DE-	58 DE-	65 DE-	65 DE-	65 DE-			
ARM Action Codes									
Number of Decimals									
Trt Treatment	Rate	Appl							
No. Name	Rate	Unit	Code	7	8	9	10	11	12
9 Degree Xtra	2 lb ai/a	A		100.0 a	100.0 a	0.0 a	99.8 a	100.0 a	99.8 a
Impact	0.011 lb ai/a	B							
Roundup Original MAX	0.75 lb ae/a	B							
Ammonium Sulfate - Premium	2 % w/w	B							
10 Degree Xtra	3.7 lb ai/a	A		100.0 a	99.5 a	0.0 a	100.0 a	100.0 a	98.8 a
11 Lexar	3.24 lb ai/a	A		100.0 a	100.0 a	0.0 a	99.8 a	100.0 a	100.0 a
12 Lexar	2.08 lb ai/a	A		100.0 a	100.0 a	0.0 a	99.8 a	100.0 a	100.0 a
Callisto	0.094 lb ai/a	B							
Roundup Original MAX	0.75 lb ae/a	B							
Ammonium Sulfate - Premium	2 % w/w	B							
LSD (P=.05)	0.00			0.00	11.33	0.00	0.40	0.00	1.22
Standard Deviation	0.00			0.00	7.84	0.00	0.28	0.00	0.84
CV	0.0			0.0	8.82	0.0	0.3	0.0	0.92
Bartlett's X2	0.0			0.0	30.453	0.0	0.0	0.0	9.905
P(Bartlett's X2)	.			.	0.001*	.	.	.	0.019*
Replicate F	0.000			0.000	1.950	0.000	2.200	0.000	0.702
Replicate Prob(F)	1.0000			1.0000	0.1407	1.0000	0.1066	1.0000	0.5575
Treatment F	0.000			0.000	53.373	0.000	43920.805	0.000	4656.596
Treatment Prob(F)	1.0000			1.0000	0.0001	1.0000	0.0001	1.0000	0.0001

Pest Type	W Weed	W Weed	W Weed		
Pest Code	SETFA	CHEAL	ABUTH		
Pest Scientific Name	Setaria faberi	Chenopodium al>	Abutilon theop>		
Pest Name	Giant foxtail	Common lambsqu>	Velvetleaf		
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn	Corn	Corn
Crop Variety	Pioneer 34A20	Pioneer 34A20	Pioneer 34A20	Pioneer 34A20	Pioneer 34A20
Description	JD 7200; RR/LL	JD 7200; RR/LL	JD 7200; RR/LL	JD 7200; RR/LL	JD 7200; RR/LL
Part Rated	PLOT P	PLOT P	PLOT P	PLOT C	PLOT C
Rating Date	7/23/2008	7/23/2008	7/23/2008	10/31/2008	10/31/2008
Rating Type	CONTRO	CONTRO	CONTRO	YIELD	YIELD
Rating Unit	%	%	%	lb/ac	BU
Number of Subsamples	1	1	1	1	1
Crop Stage Majority	R2	R2	R2	Mature	Mature
Crop Stage Minimum/Maximum	7-8'	7-8'	7-8'		
Pest Stage Minimum/Maximum	48-72"	12-72"	18-50"		
Pest Density, Unit	75 YD2	6 YD2	3 YD2		
Assessed By	VM JM	VM JM	VM JM	PM	PM
Days After First/Last Applic.	62 30	62 30	62 30	162 130	162 130
Trt-Eval Interval					
Plant-Eval Interval	62 DP-1	62 DP-1	62 DP-1	162 DP-1	162 DP-1
Days After Emergence	79 DE-	79 DE-	79 DE-	179 DE	179 DE
ARM Action Codes					TY1
Number of Decimals					1
Trt Treatment	Rate	Appl			
No. Name	Rate	Unit	Code	13	14
9 Degree Xtra	2 lb ai/a	A		100.0 a	100.0 a
Impact	0.011 lb ai/a	B			
Roundup Original MAX	0.75 lb ae/a	B			
Ammonium Sulfate - Premium	2 % w/w	B			
10 Degree Xtra	3.7 lb ai/a	A		100.0 a	100.0 a
11 Lexar	3.24 lb ai/a	A		100.0 a	100.0 a
12 Lexar	2.08 lb ai/a	A		100.0 a	100.0 a
Callisto	0.094 lb ai/a	B			
Roundup Original MAX	0.75 lb ae/a	B			
Ammonium Sulfate - Premium	2 % w/w	B			
LSD (P=.05)	0.21	0.00	1.91	4.079	25.38
Standard Deviation	0.14	0.00	1.33	2.825	17.58
CV	0.16	0.0	1.45	7.31	7.31
Bartlett's X2	0.0	0.0	0.028	21.255	21.254
P(Bartlett's X2)	.	.	0.868	0.031*	0.031*
Replicate F	1.000	0.000	0.328	1.284	1.283
Replicate Prob(F)	0.4051	1.0000	0.8052	0.2960	0.2964
Treatment F	159928.282	0.000	1881.758	11.321	11.320
Treatment Prob(F)	0.0001	1.0000	0.0001	0.0001	0.0001

Purdue University

Performance of Harness and Degee applied mid-POST to corn

Trial ID: 08S-THP-CTC-34 Protocol ID: 08S-THP-CTC-34
 Location: Throckmorton Study Director: Melissa Kruger
 Project ID: Investigator: Dr. Bill Johnson
 Sponsor Contact:

Pest Type

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

Pest Code

SETFA, Setaria faberi, = US

CHEAL, Chenopodium album, = GB

P = Pest is Part Rated

C = Crop is Part Rated

Rating Type

CONTRO = control / burndown or knockdown

PHYGEN = phytotoxicity - general / injury

YIELD = yield

Rating Unit

% = percent

lb/ac = pounds per acre

BU = bushel

YD2 = per square yard

Plant-Eval Interval

20 DP-1 = 1 5/22/2008

25 DP-1 = 1 5/22/2008

32 DP-1 = 1 5/22/2008

41 DP-1 = 1 5/22/2008

48 DP-1 = 1 5/22/2008

62 DP-1 = 1 5/22/2008

162 DP-1 = 1 5/22/2008

ARM Action Codes

TY1 = 6.222857*16