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Fierce applied early preplant burndown in Roundup Ready Field Corn

Trial ID: 11S-SEP-NTC-06 Protocol ID: 11S-SEP-NTC-06
 Location: SEPAC Study Director: Paul Marquardt
 Project ID: 11S-SEP-NTC-06 Investigator: Dr. Bill Johnson
 Sponsor Contact: Eric Ott

General Trial Information

Study Director: Paul Marquardt **Title:** Research Associate
Investigator: Dr. Bill Johnson **Title:** Professor

Discipline: H herbicide
Trial Status: E established
Initiation Date: 3-14-2010

Trial Location

City: Butleville
State/Prov.: IN
Postal Code: 47223
Country: USA

Personnel

Study Director: Paul Marquardt **Title:** Research Associate
Affiliation: Purdue University
Address: 915 W. State Street
Location: West Lafayette, IN
Postal Code: 47907 **E-mail:** pmarquar@purdue.edu
Phone No.: 765-494-0891 **Mobile No.:** 765-409-6369
Investigator: Dr. Bill Johnson **Title:** Professor
Affiliation: Purdue University
Address: 915 W. State Street
Location: West Lafayette, IN
Postal Code: 47907 **E-mail:** wji@purdue.edu
Phone No.: 765-494-4656 **Mobile No.:** 765-404-9801

Cooperator/Landowner

Cooperator: Don Biehle **Role:** Director
Organization: Southeast Purdue Agricultural Center **Org. Type:** University
Address 1: 4425 E. CR 350 N
City: Butleville **Phone No.:** 812-458-6977
State/Prov.: IN **Fax No.:** 812-458-6979
Postal Code: 47223 **Mobile No.:** 812-592-8426
Country: USA **E-mail:** biehled@purdue.edu
 United States

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: Pioneer 33W84 **Description:** Roundup Ready/Liberty Link
BBCH Scale: BCOR **Planting Date:** 6-3-2011
Planting Method: DIRDRI direct drilled **Rate, Unit:** 32000 S/A
Depth, Unit: 2 IN
Row Spacing, Unit: 30 IN **Spacing Within Row, Unit:** 6 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 75 F
Soil Moisture: MOIST **Emergence Date:** 6-8-2011

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Pest Description

Pest 1 Type: W **Code:** XANST *Xanthium strumarium*
Common Name: Common cocklebur

Pest 2 Type: W **Code:** PLAVI *Plantago virginica*
Common Name: Paleseed plantain

Pest 3 Type: W **Code:** AMBEL *Ambrosia artemisiifolia*
Common Name: Common ragweed

Pest 4 Type: W **Code:** ERICA *Conyza canadensis*
Common Name: Canada horseweed

Pest 5 Type: W **Code:** ERIPH *Erigeron philadelphicus*
Common Name: Daisy fleabane

Pest 6 Type: W **Code:** ALLVI *Allium vineale*
Common Name: Wild garlic

Pest 7 Type: W **Code:** POAAN *Poa annua*
Common Name: Annual bluegrass

Pest 8 Type: W **Code:** TAROF *Taraxacum officinale*
Common Name: Common dandelion

Pest 9 Type: W **Code:** ECHCG *Echinochloa crus-galli*
Common Name: Common barnyardgrass

Pest10 Type: W **Code:** SETFA *Setaria faberi*
Common Name: Giant foxtail

Pest11 Type: W **Code:** CERVU *Cerastium fontanum vulgare*
Common Name: Mouse-ear chickweed

Pest12 Type: W **Code:** THLSS *Thlaspi* sp.
Common Name: Penny cress

Pest13 Type: W **Code:** SOOCA *Solidago canadensis*
Common Name: Canadian goldenrod

Pest14 Type: W **Code:** BROSS *Bromus* sp.
Common Name: Bromegrass

Site and Design

Plot Width, Unit: 10 FT	Site Type: FIELD field
Plot Length, Unit: 30 FT	Experimental Unit: 1 PLOT plot
Plot Area, Unit: 300 FT ²	Tillage Type: NOTILL no-till
Replications: 4	Study Design: RACOB L Randomized Complete Block (RCB)
	Untreated Arrangement: INCLUDED single control randomized in each block

Soil Description

Description Name: SEPAC-Field U4

% OM: 1.8	Texture: SIL silt loam
pH: 5.6	Soil Name: Avonburg
CEC: 6.7	Fert. Level: G good
	Soil Drainage: P poor

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Application Description

	A	B	C
Application Date:	5-11-2011	6-3-2011	7-14-2011
Time of Day:	2-2:15 PM	10 AM	9 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	EARPRE	ATPLAN	POSPOS
Application Placement:	FOLIAR	FOLIAR	FOLIAR
Applied By:	GN	RT	JR
Air Temperature, Unit:	90 F	75 F	71 F
% Relative Humidity:	56	62	63
Wind Velocity, Unit:	2.3 MPH	4 MPH	6 MPH
Wind Direction:	SW	SE	E
Dew Presence (Y/N):	N no	N no	Y yes
Soil Temperature, Unit:	72 F	75 F	70 F
Soil Moisture:	MOIST	MOIST	DRY
% Cloud Cover:	100	90	5

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH	BBCH
Stage Majority, Percent:		00 100	14 100

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	XANST W	XANST W	XANST W
Stage Majority, Percent:		31 100	
Height, Unit:		2 IN	
Height Minimum, Maximum:		1 3	
Density, Unit:		15 YD2	
Pest 2 Code, Type, Scale:	PLAVI W	PLAVI W	PLAVI W
Stage Majority, Percent:		65 100	
Height, Unit:		3.5 IN	
Height Minimum, Maximum:		1 6	
Density, Unit:		2.5 YD2	
Pest 3 Code, Type, Scale:	AMBEL W	AMBEL W	AMBEL W
Stage Majority, Percent:		32 100	
Height, Unit:		7 IN	
Height Minimum, Maximum:		4 10	
Density, Unit:		2 YD2	
Pest 4 Code, Type, Scale:	ERICA W	ERICA W	ERICA W
Stage Majority, Percent:	30 100	33 100	
Height, Unit:	1.5 IN	3.5 IN	

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Height Minimum, Maximum:	1 3	1 6	
Density, Unit:	5 YD2	42 YD2	
Pest 5 Code, Type, Scale:	ERIPH W	ERIPH W	ERIPH W
Stage Majority, Percent:	11 100	12 100	
Height, Unit:	6 IN	3 IN	
Height Minimum, Maximum:	0 12	1 5	
Density, Unit:	10 YD2	5 YD2	
Pest 6 Code, Type, Scale:	ALLVI W	ALLVI W	ALLVI W
Stage Majority, Percent:	48 100	65 100	
Height, Unit:	14 IN	27 IN	
Height Minimum, Maximum:	10 18	18 36	
Density, Unit:	25 YD2	5 YD2	
Pest 7 Code, Type, Scale:	POAAN W	POAAN W	POAAN W
Stage Majority, Percent:		65 100	
Height, Unit:		4 IN	
Height Minimum, Maximum:		2 6	
Density, Unit:		25 YD2	
Pest 8 Code, Type, Scale:	TAROF W	TAROF W	TAROF W
Stage Majority, Percent:		65 100	
Height, Unit:		6 IN	
Height Minimum, Maximum:		2 10	
Density, Unit:		1 YD2	
Pest 9 Code, Type, Scale:	ECHCG W	ECHCG W	ECHCG W
Stage Majority, Percent:		31 100	
Height, Unit:		4 IN	
Height Minimum, Maximum:		2 6	
Density, Unit:		2.5 YD2	
Pest10 Code, Type, Scale:	SETFA W	SETFA W	SETFA W
Stage Majority, Percent:		31 100	
Height, Unit:		4 IN	
Height Minimum, Maximum:		2 6	
Density, Unit:		2.5 YD2	
Pest11 Code, Type, Scale:	CERVU W	CERVU W	CERVU W
Stage Majority, Percent:	65 100		
Height, Unit:	1.5 IN		
Height Minimum, Maximum:	0 3		
Density, Unit:	5 YD2		
Pest12 Code, Type, Scale:	THLSS W	THLSS W	THLSS W
Stage Majority, Percent:	30 100		
Height, Unit:	2 IN		
Height Minimum, Maximum:	0 4		
Density, Unit:	3 YD2		
Pest13 Code, Type, Scale:	SOOCA W	SOOCA W	SOOCA W

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Stage Majority, Percent:	30	100		
Height, Unit:	7.5	IN		
Height Minimum, Maximum:	3	12		
Density, Unit:	3	YD2		
Pest14 Code, Type, Scale:	BROSS W	BROSS W	BROSS W	

Application Equipment

	A	B	C
Appl. Equipment:	CO2 Backpack	CO2 Backpack	CO2 Backpack
Equipment Type:	SPRBAC	SPRBAC	SPRBAC
Operation 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:	6	6	6
Boom Length, Unit:	7.5 FT	7.5 FT	7.5 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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 Sponsor Contact: Eric Ott

Pest Type		W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	ERICA	XANST	AMBEL	SETFA	ERICA
Pest Scientific Name		Setaria faberi	Conyza canadensis	Xanthium strumarium	Ambrosia artemisiifolia	Setaria faberi	Conyza canadensis
Pest Name		Giant foxtail	Canada horseweed	Common cocklebur	Common ragweed	Giant foxtail	Canada horseweed
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn	Corn
Crop Variety	P33W84	P33W84	P33W84	P33W84	P33W84	P33W84	P33W84
Description	4-8"					48 IN	48 IN
Rating Date	6-16-2011	6-29-2011	6-29-2011	6-29-2011	6-29-2011	7-14-2011	7-14-2011
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1	1
Crop Stage Majority	V2	V5	V5	V5	V5	V7-V8	V7-V8
Pest Stage Majority		12 IN	3-12 IN	4-10 IN	6-8 IN	24 IN	10 IN
Pest Density, Unit		40 YD2	25 YD2	5.5 YD2	2.5 YD2	100 YD2	10 YD2
Assessed By	CB/RH	RH	RH	RH	RH	PM	PM
Days After First/Last Applic.	36 13	49 26	49 26	49 26	49 26	64 41	64 41
Plant-Eval Interval	13 DP-1	26 DP-1	26 DP-1	26 DP-1	26 DP-1	41 DP-1	41 DP-1
Days After Emergence	8 DE-1	21 DE-	21 DE-	21 DE-	21 DE-	36 DE-	36 DE-

Trt No.	Treatment Name	Rate	Appl Unit	Code	1	2	3	4	5	6	7
1	UNTREATED				0.0 a	0.0 c	0.0 b	0.0 c	0.0 b	0.0 c	0.0 b
2	Fierce	160 g ai/ha	A		0.0 a	62.5 b	90.0 a	38.8 bc	97.5 a	33.8 bc	88.8 a
	Roundup PowerMAX	870 g ae/ha	A								
	N-Pak AMS	5 % v/v	A								
	Roundup PowerMAX	870 g ae/ha	C								
	N-Pak AMS	5 % v/v	C								
3	Roundup PowerMAX	870 g ae/ha	A		0.0 a	65.0 b	96.3 a	36.3 bc	95.0 a	40.0 abc	98.3 a
	Fierce	160 g ai/ha	A								
	AAtrex	560 g ai/ha	A								
	N-Pak AMS	5 % v/v	A								
	Roundup PowerMAX	870 g ae/ha	C								
	N-Pak AMS	5 % v/v	C								
4	Roundup PowerMAX	870 g ae/ha	A		2.5 a	84.5 ab	94.5 a	80.2 ab	96.3 a	57.5 ab	99.0 a
	Fierce	200 g ai/ha	A								
	N-Pak AMS	5 % v/v	A								
	Roundup PowerMAX	870 g ae/ha	C								
	N-Pak AMS	5 % v/v	C								
5	Roundup PowerMAX	870 g ae/ha	A		0.0 a	86.3 ab	90.0 a	72.5 ab	92.5 a	70.0 ab	98.3 a
	Fierce	240 g ai/ha	A								
	N-Pak AMS	5 % v/v	A								
	Roundup PowerMAX	870 g ae/ha	C								
	N-Pak AMS	5 % v/v	C								

Means followed by same letter do not significantly differ (P=0.05, Student-Newman-Keuls)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Pest Type		W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	ERICA	XANST	AMBEL	SETFA	ERICA
Pest Scientific Name		Setaria faberi	Conyza canadensis	Xanthium strumarium	Ambrosia artemisiifolia	Setaria faberi	Conyza canadensis
Pest Name		Giant foxtail	Canada horseweed	Common cocklebur	Common ragweed	Giant foxtail	Canada horseweed
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn	Corn
Crop Variety	P33W84	P33W84	P33W84	P33W84	P33W84	P33W84	P33W84
Description	4-8"					48 IN	48 IN
Rating Date	6-16-2011	6-29-2011	6-29-2011	6-29-2011	6-29-2011	7-14-2011	7-14-2011
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1	1
Crop Stage Majority	V2	V5	V5	V5	V5	V7-V8	V7-V8
Pest Stage Majority		12 IN	3-12 IN	4-10 IN	6-8 IN	24 IN	10 IN
Pest Density, Unit		40 YD2	25 YD2	5.5 YD2	2.5 YD2	100 YD2	10 YD2
Assessed By	CB/RH	RH	RH	RH	RH	PM	PM
Days After First/Last Applic.	36 13	49 26	49 26	49 26	49 26	64 41	64 41
Plant-Eval Interval	13 DP-1	26 DP-1	26 DP-1	26 DP-1	26 DP-1	41 DP-1	41 DP-1
Days After Emergence	8 DE-1	21 DE-	21 DE-	21 DE-	21 DE-	36 DE-	36 DE-
Trt Treatment	Rate Appl						
No. Name	Rate Unit Code	1	2	3	4	5	6
6 Roundup PowerMAX	870 g ae/ha B	0.0 a	83.8 ab	93.3 a	85.0 ab	97.5 a	66.3 ab
Harness Xtra	2200 g ai/ha B						
N-Pak AMS	5 % v/v B						
Roundup PowerMAX	870 g ae/ha C						
N-Pak AMS	5 % v/v C						
7 Roundup PowerMAX	870 g ae/ha B	0.0 a	82.8 ab	98.8 a	81.8 ab	100.0 a	48.8 abc
Lexar	2340 g ai/ha B						
N-Pak AMS	5 % v/v B						
Roundup PowerMAX	870 g ae/ha C						
N-Pak AMS	5 % v/v C						
8 Roundup PowerMAX	870 g ae/ha B	0.0 a	97.5 a	100.0 a	67.5 ab	100.0 a	91.5 a
Corvus	69 g ai/ha B						
AAtrex	1120 g ai/ha B						
N-Pak AMS	5 % v/v B						
Roundup PowerMAX	870 g ae/ha C						
N-Pak AMS	5 % v/v C						
9 Roundup PowerMAX	870 g ae/ha B	0.0 a	76.3 ab	98.3 a	91.3 a	100.0 a	43.8 abc
Verdict	635 g ai/ha B						
N-Pak AMS	5 % v/v B						
Roundup PowerMAX	870 g ae/ha C						
N-Pak AMS	5 % v/v C						
LSD (P=.05)	2.43	18.30	8.21	33.16	9.79	34.86	9.94
Standard Deviation	1.67	12.54	5.63	22.61	6.71	23.89	6.81
CV	600.0	17.67	6.66	36.78	7.75	47.62	7.88
Bartlett's X2	0.0	13.473	13.893	10.014	5.091	5.646	45.11
P(Bartlett's X2)	.	0.061	0.031*	0.188	0.278	0.582	0.001*
Replicate F	1.000	3.263	2.042	0.943	1.578	0.539	1.027
Replicate Prob(F)	0.4098	0.0389	0.1348	0.4367	0.2206	0.6600	0.3983
Treatment F	1.000	20.974	128.648	7.135	94.111	4.685	91.540
Treatment Prob(F)	0.4613	0.0001	0.0001	0.0001	0.0001	0.0015	0.0001

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)
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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	XANST	AMBEL	GGGAN	ERICA	AMBEL	XANST
Pest Scientific Name	Xanthium strum>	Ambrosia artem>	Annual grasses	Conyza canaden>	Ambrosia artem>	Xanthium strum>
Pest Name	Common cockleb>	Common ragweed	Annual grasses	Canada horsewee>	Common ragweed	Common cockleb>
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	P33W84	P33W84	P33W84	P33W84	P33W84	P33W84
Description	48 IN	48 IN				
Rating Date	7-14-2011	7-14-2011	7-26-2011	7-26-2011	7-26-2011	7-26-2011
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Crop Stage Majority	V7-V8	V7-V8	V16	V16	V16	V16
Pest Stage Majority	8-30 IN	30 IN	36 IN	24 IN	36 IN	36 IN
Pest Density, Unit	5 YD2	10 YD2	50 YD2	4.5 YD2	2 YD2	2 YD2
Assessed By	PM	PM	RH	RH	RH	RH
Days After First/Last Applic.	64 41	64 41	76 12	76 12	76 12	76 12
Plant-Eval Interval	41 DP-1	41 DP-1	53 DP-1	53 DP-1	53 DP-1	53 DP-1
Days After Emergence	36 DE-	36 DE-	48 DE-	48 DE-	48 DE-	48 DE-

Trt No.	Treatment Name	Rate	Appl Unit	Code	8	9	10	11	12	13
1	UNTREATED				0.0 c	0.0 b	0.0 b	0.0 b	0.0 b	0.0 b
2	Fierce	160 g ai/ha	A		7.5 c	70.0 a	98.8 a	97.5 a	100.0 a	100.0 a
	Roundup PowerMAX	870 g ae/ha	A							
	N-Pak AMS	5 % v/v	A							
	Roundup PowerMAX	870 g ae/ha	C							
	N-Pak AMS	5 % v/v	C							
3	Roundup PowerMAX	870 g ae/ha	A		25.0 bc	57.5 a	98.8 a	100.0 a	100.0 a	100.0 a
	Fierce	160 g ai/ha	A							
	AAtrex	560 g ai/ha	A							
	N-Pak AMS	5 % v/v	A							
	Roundup PowerMAX	870 g ae/ha	C							
	N-Pak AMS	5 % v/v	C							
4	Roundup PowerMAX	870 g ae/ha	A		61.3 ab	89.5 a	100.0 a	100.0 a	100.0 a	100.0 a
	Fierce	200 g ai/ha	A							
	N-Pak AMS	5 % v/v	A							
	Roundup PowerMAX	870 g ae/ha	C							
	N-Pak AMS	5 % v/v	C							
5	Roundup PowerMAX	870 g ae/ha	A		67.5 ab	88.5 a	100.0 a	99.5 a	100.0 a	100.0 a
	Fierce	240 g ai/ha	A							
	N-Pak AMS	5 % v/v	A							
	Roundup PowerMAX	870 g ae/ha	C							
	N-Pak AMS	5 % v/v	C							

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	XANST	AMBEL	GGGAN	ERICA	AMBEL	XANST
Pest Scientific Name	Xanthium strum>	Ambrosia artem>	Annual grasses	Conyza canadens>	Ambrosia artem>	Xanthium strum>
Pest Name	Common cockleb>	Common ragweed	Annual grasses	Canada horsewee>	Common ragweed	Common cockleb>
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	P33W84	P33W84	P33W84	P33W84	P33W84	P33W84
Description	48 IN	48 IN				
Rating Date	7-14-2011	7-14-2011	7-26-2011	7-26-2011	7-26-2011	7-26-2011
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Crop Stage Majority	V7-V8	V7-V8	V16	V16	V16	V16
Pest Stage Majority	8-30 IN	30 IN	36 IN	24 IN	36 IN	36 IN
Pest Density, Unit	5 YD2	10 YD2	50 YD2	4.5 YD2	2 YD2	2 YD2
Assessed By	PM	PM	RH	RH	RH	RH
Days After First/Last Applic.	64 41	64 41	76 12	76 12	76 12	76 12
Plant-Eval Interval	41 DP-1	41 DP-1	53 DP-1	53 DP-1	53 DP-1	53 DP-1
Days After Emergence	36 DE-	36 DE-	48 DE-	48 DE-	48 DE-	48 DE-
Trt No.						
Treatment Name						
Rate						
Appl Unit						
Code						
8		9	10	11	12	13
6 Roundup PowerMAX	870 g ae/ha B	86.5 a	98.8 a	98.3 a	100.0 a	100.0 a
Harness Xtra	2200 g ai/ha B					
N-Pak AMS	5 % v/v B					
Roundup PowerMAX	870 g ae/ha C					
N-Pak AMS	5 % v/v C					
7 Roundup PowerMAX	870 g ae/ha B	93.8 a	98.8 a	100.0 a	100.0 a	100.0 a
Lexar	2340 g ai/ha B					
N-Pak AMS	5 % v/v B					
Roundup PowerMAX	870 g ae/ha C					
N-Pak AMS	5 % v/v C					
8 Roundup PowerMAX	870 g ae/ha B	86.3 a	97.0 a	100.0 a	100.0 a	100.0 a
Corvus	69 g ai/ha B					
AAtrex	1120 g ai/ha B					
N-Pak AMS	5 % v/v B					
Roundup PowerMAX	870 g ae/ha C					
N-Pak AMS	5 % v/v C					
9 Roundup PowerMAX	870 g ae/ha B	82.0 a	99.5 a	100.0 a	100.0 a	100.0 a
Verdict	635 g ai/ha B					
N-Pak AMS	5 % v/v B					
Roundup PowerMAX	870 g ae/ha C					
N-Pak AMS	5 % v/v C					
LSD (P=.05)	35.99	27.95	2.28	3.03	0.00	0.03
Standard Deviation	24.66	19.15	1.56	2.07	0.00	0.02
CV	45.62	25.27	1.76	2.35	0.0	0.02
Bartlett's X2	18.563	31.115	0.0	5.554	0.0	0.0
P(Bartlett's X2)	0.01*	0.001*	.	0.062	.	.
Replicate F	0.833	1.803	2.286	0.884	0.000	0.000
Replicate Prob(F)	0.4891	0.1735	0.1044	0.4635	1.0000	1.0000
Treatment F	7.906	10.782	1806.429	1020.819	0.000	10492719.049
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0001	1.0000	0.0001

Means followed by same letter do not significantly differ (P=.05, Student-New man-Keuls)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Purdue University

Fierce applied early preplant burndown in Roundup Ready Field Corn

Trial ID: 11S-SEP-NTC-06	Protocol ID: 11S-SEP-NTC-06
Location: SEPAC	Study Director: Paul Marquardt
Project ID: 11S-SEP-NTC-06	Investigator: Dr. Bill Johnson
	Sponsor Contact: Eric Ott

Pest Type

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

Pest Code

SETFA, *Setaria faberi*, = US
 ERICA, *Conyza canadensis*, = US
 XANST, *Xanthium strumarium*, = US
 AMBEL, *Ambrosia artemisiifolia*, = US
 GGGAN, Annual grasses, = US

Crop Code

ZEAMX, BCOR, *Zea mays*, = US

Rating Type

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

Rating Unit

% = percent

YD2 = per square yard

Plant-Eval Interval

13 DP-1 = 1 ZEAMX 6-3-2011
 26 DP-1 = 1 ZEAMX 6-3-2011
 41 DP-1 = 1 ZEAMX 6-3-2011
 53 DP-1 = 1 ZEAMX 6-3-2011