

# LSU Northeast Research Station

## Evaluation of Roundup Weathermax and Ignite combinations for controlling weeds in corn tolerant to Roundup and Ignite.

Trial ID: SJ07C025

Protocol ID: SJ07C025

Location:

Study Director:

Investigator: Bill Williams

### General Trial Information

Investigator: Bill Williams

### Crop Description

Crop 1: ZEAMX Zea mays

Corn

Variety: Pioneer 31G96

BBCH Scale: BCOR

Planting Date: 10/Apr/07

Planting Method: SEEDED

Rate, Unit: 28000 S/A

Depth, Unit: 2.5 IN

Row Spacing, Unit: 40 IN

Seed Bed: MEDIUM

Soil Moisture: NORMAL

Harvest Equipment: Small plot combine

Harvested Width, Unit: 6.67 FT

Harvested Length, Unit: 25 FT

% Standard Moisture: 15.0

### Pest Description

Pest 1 Type: W Code: BRAPP Brachiaria platyphylla

Common Name: Broadleaf signalgrass

Pest 2 Type: W Code: LAMAM Lamium amplexicaule

Common Name: Henbit

### Site and Design

Plot Width, Unit: 13.66 FT

Site Type: FIELD

Plot Length, Unit: 38 FT

Tillage Type: CONVENTIONAL-TILL

Replications: 3

Study Design: Randomized Complete Block

### Soil Description

Description Name: Gqarden Cut

% Sand: 36

% OM: 1.1

Texture: Loam

% Silt: 48

pH: 5.7

Soil Name: Tunica

% Clay: 16

CEC: 8.8

Fert. Level: EXCELLENT

### Moisture and Weather Conditions

Overall Moisture Conditions: Dry

Closest Weather Station: Northeast Research Station

Distance: 0.25

Unit: MI

	Date	Amount	Unit
1.	31/Mar/07	0.25	IN
2.	1/Apr/07	0.01	IN
3.	2/Apr/07	0.01	IN
4.	3/Apr/07	0.09	IN
5.	4/Apr/07	0.19	IN
6.	7/Apr/07	0.14	IN
7.	8/Apr/07	0.1	IN
8.	10/Apr/07	1.01	IN

9. 14/Apr/070.39 IN  
 10. 18/Apr/070.11 IN  
 11. 25/Apr/071.37 IN  
 12. 26/Apr/070.41 IN  
 13. 2/May/07 0.04 IN  
 14. 3/May/07 1.24 IN  
 15. 15/May/070.02 IN  
 16. 16/May/070.01 IN  
 17. 17/May/070.01 IN  
 18. 3/Jun/07 0.02 IN  
 19. 16/Jun/070.01 IN  
 20. 18/Jun/070.02 IN  
 21. 19/Jun/070.4 IN  
 22. 2/Jul/07 0.3 IN  
 23. 3/Jul/07 0.06 IN  
 24. 4/Jul/07 1.14 IN  
 25. 5/Jul/07 0.31 IN  
 26. 6/Jul/07 0.27 IN  
 27. 7/Jul/07 1.39 IN  
 28. 9/Jul/07 0.36 IN  
 29. 10/Jul/070.01 IN  
 30. 11/Jul/070.27 IN  
 31. 13/Jul/070.3 IN  
 32. 14/Jul/071.96 IN  
 33. 15/Jul/072.8 IN  
 34. 17/Jul/071.56 IN  
 35. 20/Jul/070.93 IN  
 36. 21/Jul/070.1 IN  
 37. 22/Jul/070.01 IN  
 38. 30/Jul/072.35 IN

**Application Description**

	<b>A</b>		<b>B</b>	
<b>Application Date:</b>	27/Apr/07		11/May/07	
<b>Application Method:</b>	SPRAY		SPRAY	
<b>Application Timing:</b>	EPOST		LPOST	
<b>Application Placement:</b>	BROFOL		BROFOL	
<b>Air Temperature, Unit:</b>	75	F	86	F
<b>% Relative Humidity:</b>	43		52	
<b>Wind Velocity, Unit:</b>	2.4	MPH	5	MPH
<b>Wind Direction:</b>	NW		SE	
<b>Soil Temperature, Unit:</b>	76	F	88	F
<b>% Cloud Cover:</b>	0		0	

**Crop Stage At Each Application**

	<b>A</b>		<b>B</b>	
<b>Crop 1 Code, BBCH Scale:</b>	ZEAMX	BCOR	ZEAMX	BCOR
<b>Stage Scale Used:</b>	V2	V3		
<b>Stage Majority, Percent:</b>	9"			
<b>Stage Minimum, Percent:</b>	10"			

**Pest Stage At Each Application**

	<b>A</b>		<b>B</b>	
<b>Pest 1 Code, Disc., Scale:</b>	BRAPP	WBRAPP	W	
<b>Stage Majority, Percent:</b>	2-3 LF			
<b>Stage Minimum, Percent:</b>	1"			
<b>Stage Maximum, Percent:</b>	1.5"			
<b>Pest 2 Code, Disc., Scale:</b>	LAMAM	WLAMAM	W	
<b>Stage Majority, Percent:</b>	2-3 LF			
<b>Stage Minimum, Percent:</b>	.5"			
<b>Stage Maximum, Percent:</b>	.5"			

**Application Equipment**

	<b>A</b>	<b>B</b>
<b>Appl. Equipment:</b>	Tractor	Tractor
<b>Operating Pressure, Unit:</b>	40            psi	40            psi
<b>Nozzle Type:</b>	Greenleaf	Greenleaf
<b>Nozzle Size:</b>	11002	11002
<b>Nozzle Spacing, Unit:</b>	20    in	20    in
<b>Nozzles/Row:</b>	2	2
<b>Carrier:</b>	Water	Water

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Location:

Study Director:

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Pest Type	BRAPP BRAPP BRAPP BRAPP BRAPP							
Pest Code	BRAPP BRAPP BRAPP BRAPP BRAPP							
Crop Code								
Part Rated	PLTOT	PPLTOT	P PLTOT	P PLTOT	PPLTOT	P		
Rating Date	2/May/07	18/May/07	25/May/07	8/Jun/07	15/Aug/07			
Rating Data Type	Control	Control	Control	Control	Control			
Rating Unit	%	%	%	%	%			
Trt-Eval Interval	5 DA-A	7 DA-B	14 DA-B	28 DA-B	96 DA-B			
Trt Treatment	Rate	Growth						
No. Name	Rate Unit	Stage	1	2	3	4	5	
1 Roundup Weathermax	22	OZ/AEPOST	93	a 99	a 99	a 87	ab 77	b
Roundup Weathermax	22	OZ/ALPOST						
2 Ignite	32	OZ/AEPOST	93	a 99	a 99	a 92	ab 90	a
Ignite	32	OZ/ALPOST						
3 Roundup Weathermax	22	OZ/AEPOST	93	a 99	a 99	a 92	ab 92	a
Ignite	32	OZ/ALPOST						
4 Ignite	32	OZ/AEPOST	95	a 99	a 99	a 85	ab 78	b
Roundup Weathermax	22	OZ/ALPOST						
5 Roundup Weathermax	11	OZ/AEPOST	93	a 99	a 99	a 93	ab 92	a
Ignite	16	OZ/AEPOST						
Roundup Weathermax	11	OZ/ALPOST						
Ignite	16	OZ/ALPOST						
6 Roundup Weathermax	22	OZ/AEPOST	93	a 99	a 99	a 95	a 92	a
Ignite	32	OZ/AEPOST						
Roundup Weathermax	22	OZ/ALPOST						
Ignite	32	OZ/ALPOST						
7 Roundup Weathermax	22	OZ/AEPOST	93	a 99	a 99	a 87	ab 77	b
Ignite	16	OZ/AEPOST						
Roundup Weathermax	22	OZ/ALPOST						
Ignite	16	OZ/ALPOST						
8 Roundup Weathermax	11	OZ/AEPOST	93	a 99	a 99	a 83	b 78	b
Ignite	32	OZ/AEPOST						
Roundup Weathermax	11	OZ/ALPOST						
Ignite	32	OZ/ALPOST						
9 nontreated			0	b 0	b 0	b 0	c 0	c
LSD (P=.10)			1.8	0.0	0.0	6.0	4.5	
Standard Deviation			1.3	0.0	0.0	4.2	3.2	
CV			1.53	0.0	0.0	5.29	4.23	
Grand Mean			83.15	88.0	88.0	79.26	75.0	
Bartlett's X2			0.0	0.0	0.0	4.026	1.971	

P(Bartlett's X2)	1.00	.	.	0.673	0.922
Replicate F	28.000	0.000	0.000	3.368	0.276
Replicate Prob(F)	0.0001	1.0000	1.0000	0.0601	0.7625
Treatment F	1800.572	0.000	0.000	153.368	249.931
Treatment Prob(F)	0.0001	1.0000	1.0000	0.0001	0.0001

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Pest Type					
Pest Code		BRAPP	BRAPP	BRAPP	BRAPP
Crop Code					
Part Rated		PLTOT	PPLTOT	P PLTOT	P PLTOT
Rating Date		2/May/07	18/May/07	25/May/07	8/Jun/07
Rating Data Type		Control	Control	Control	Control
Rating Unit		%	%	%	%
Trt-Eval Interval		5 DA-A	7 DA-B	14 DA-B	28 DA-B
Trt Treatment	Rate	Growth			
No.	Name	RateUnit	Stage	1	2
				3	4
				5	

Means followed by same letter do not significantly differ (P=.10, Student-Newman-Keuls)

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

# LSU Northeast Research Station

Pest Type				
Pest Code		SORHA	SORHA	SORHA
Crop Code				
Part Rated		PLTOT P	PLTOT P	PLTOT P
Rating Date		18/May/07	25/May/07	8/Jun/07
Rating Data Type		Control	Control	Control
Rating Unit		%	%	%
Trt-Eval Interval		7 DA-B	14 DA-B	28 DA-B

Trt No.	Treatment Name	Rate	Growth Unit	Stage	6	7	8	9
1	Roundup Weathermax	22	OZ/AEPOST	99	a	99	a	85
	Roundup Weathermax	22	OZ/ALPOST					a
2	Ignite	32	OZ/AEPOST	99	a	99	a	73
	Ignite	32	OZ/ALPOST					b
3	Roundup Weathermax	22	OZ/AEPOST	99	a	99	a	80
	Ignite	32	OZ/ALPOST					ab
4	Ignite	32	OZ/AEPOST	99	a	99	a	87
	Roundup Weathermax	22	OZ/ALPOST					ab
5	Roundup Weathermax	11	OZ/AEPOST	99	a	99	a	83
	Ignite	16	OZ/AEPOST					ab
	Roundup Weathermax	11	OZ/ALPOST					73
	Ignite	16	OZ/ALPOST					b
6	Roundup Weathermax	22	OZ/AEPOST	99	a	99	a	87
	Ignite	32	OZ/AEPOST					ab
	Roundup Weathermax	22	OZ/ALPOST					73
	Ignite	32	OZ/ALPOST					b
7	Roundup Weathermax	22	OZ/AEPOST	99	a	99	a	83
	Ignite	16	OZ/AEPOST					ab
	Roundup Weathermax	22	OZ/ALPOST					73
	Ignite	16	OZ/ALPOST					b
8	Roundup Weathermax	11	OZ/AEPOST	99	a	99	a	77
	Ignite	32	OZ/AEPOST					ab
	Roundup Weathermax	11	OZ/ALPOST					73
	Ignite	32	OZ/ALPOST					b
9	nontreated				0	b	0	b
					0	b	0	c
					0	b	0	0
					0	b	0	d
	LSD (P=.10)				0.0	0.0	8.7	4.5
	Standard Deviation				0.0	0.0	6.1	3.2
	CV				0.0	0.0	8.35	4.87
	Grand Mean				88.0	88.0	73.33	64.81
	Bartlett's X2				0.0	0.0	1.172	0.966
	P(Bartlett's X2)				.	.	0.978	0.995
	Replicate F				0.000	0.000	0.000	27.163
	Replicate Prob(F)				1.0000	1.0000	1.0000	0.0001
	Treatment F				0.000	0.000	62.667	215.047
	Treatment Prob(F)				1.0000	1.0000	0.0001	0.0001

# LSU Northeast Research Station

Pest Type							
Pest Code		SORHA	SORHA	SORHA	SORHA		
Crop Code							
Part Rated		PLTOT P	PLTOT P	PLTOT P	PPLTOT P		
Rating Date		18/May/07	25/May/07	8/Jun/07	15/Aug/07		
Rating Data Type		Control	Control	Control	Control		
Rating Unit		%	%	%	%		
Trt-Eval Interval		7 DA-B	14 DA-B	28 DA-B	96 DA-B		
Trt Treatment	Rate	Growth					
No.	Name	RateUnit	Stage	6	7	8	9

Means followed by same letter do not significantly differ (P=.10, Student-Newman-Keuls)

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