



**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/07	0.39	IN
10.	18/Apr/07	0.11	IN
11.	25/Apr/07	1.37	IN
12.	26/Apr/07	0.41	IN
13.	2/May/07	0.04	IN
14.	3/May/07	1.24	IN
15.	15/May/07	0.02	IN
16.	16/May/07	0.01	IN
17.	17/May/07	0.01	IN
18.	3/June/07	0.02	IN
19.	16/June/07	0.01	IN
20.	18/June/07	0.02	IN
21.	19/June/07	0.4	IN
22.	2/July/07	0.3	IN
23.	3/July/07	0.06	IN
24.	4/July/07	1.14	IN
25.	5/July/07	0.31	IN
26.	6/July/07	0.27	IN
27.	7/July/07	1.39	IN
28.	9/July/07	0.36	IN
29.	10/July/07	0.01	IN
30.	11/July/07	0.27	IN
31.	13/July/07	0.3	IN
32.	14/July/07	1.96	IN
33.	15/July/07	2.8	IN
34.	17/July/07	1.56	IN
35.	20/July/07	0.93	IN
36.	21/July/07	0.1	IN
37.	22/July/07	0.01	IN
38.	30/July/07	2.35	IN

**Application Description**

	A	B	C
<b>Application Date:</b>	22/Mar/07	23/Apr/07	8/May/07
<b>Application Method:</b>	SPRAY	SPRAY	SPRAY
<b>Application Timing:</b>	14DPP	EPOST	12" CORN
<b>Application Placement:</b>	BROSIOI	BROFOL	BROFOL
<b>Air Temperature, Unit:</b>	66 F	80 F	98 F
<b>% Relative Humidity:</b>	52	52	51
<b>Wind Velocity, Unit:</b>	8 MPH	6 MPH	1.6 MPH
<b>Wind Direction:</b>	S	SE	N
<b>Soil Temperature, Unit:</b>	74 F	80 F	89 F
<b>Soil Moisture:</b>		DRY	DRY
<b>% Cloud Cover:</b>		90	10

**Crop Stage At Each Application**

	A	B	C
<b>Crop 1 Code, BBCH Scale:</b>	ZEAMX	BCORZEAMX	BCORZEAMX BCOR
<b>Stage Scale Used:</b>		V2	12"

**Pest Stage At Each Application**

	<b>A</b>	<b>B</b>	<b>C</b>	
<b>Pest 1 Code, Disc., Scale:</b>	BRAPP	WBRAPP	WBRAPP	W
<b>Stage Majority, Percent:</b>		3 LF	3-4 T	
<b>Stage Minimum, Percent:</b>		2"	6"	
<b>Stage Maximum, Percent:</b>		2"	7"	
<b>Pest 2 Code, Disc., Scale:</b>	SORHA	WSORHA	WSORHA	W
<b>Stage Majority, Percent:</b>		3-4 T	4-5 LF	
<b>Stage Minimum, Percent:</b>		12"	7"	
<b>Stage Maximum, Percent:</b>		12"	8"	
<b>Pest 3 Code, Disc., Scale:</b>	SEBEX	WSEBEX	WSEBEX	W
<b>Stage Majority, Percent:</b>		COT		
<b>Stage Minimum, Percent:</b>		1"		
<b>Stage Maximum, Percent:</b>		1"		
<b>Pest 4 Code, Disc., Scale:</b>	CYPES	WCYPES	WCYPES	W
<b>Stage Minimum, Percent:</b>		4"	8"	
<b>Stage Maximum, Percent:</b>		4"	10"	
<b>Pest 5 Code, Disc., Scale:</b>	CASOB	WCASOB	WCASOB	W
<b>Stage Majority, Percent:</b>		COT		
<b>Stage Minimum, Percent:</b>		1"		
<b>Stage Maximum, Percent:</b>		1"		
<b>Pest 6 Code, Disc., Scale:</b>	IPOSS	WIPOSS	WIPOSS	W
<b>Stage Majority, Percent:</b>		1 LF	4-5 LF	
<b>Stage Minimum, Percent:</b>		1"	2"	
<b>Stage Maximum, Percent:</b>		1"	3"	
<b>Pest 7 Code, Disc., Scale:</b>	LAMAM	WLAMAM	WLAMAM	W
<b>Stage Minimum, Percent:</b>			3"	
<b>Stage Maximum, Percent:</b>			5"	

**Application Equipment**

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

# LSU Northeast Research Station

## Evaluation of Valor for preplant weed control and corn yield.

Trial ID: SJ07C011      Protocol ID: SJ07C011  
 Location:                      Study Director: Valent MD68.01  
    Investigator: Bill Williams

Pest Type				LAMAM	LAMAM	LAMAM	BRAPP	BRAPP
Pest Code								
Crop Code								
Part Rated				PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Date				29/Mar/07	12/Apr/07	18/Apr/07	29/Mar/07	12/Apr/07
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%
Trt-Eval Interval				7 DA-A	21 DA-A	27 DA-A	7 DA-A	21 DA-A
Trt Treatment	Rate	Growth						
No. Name	Rate Unit	Stage	1	2	3	4	5	
1 nontreated			77	c 80	c 83	b 0	d 0	c
2 Roundup Weathermax	22	OZ/A 14DPP	95	a 95	a 99	a 53	c 67	b
Ammonium Sulfate	2.5	LB/A 14DPP						
Roundup Weathermax	22	OZ/A 12 in C						
Ammonium Sulfate	2.5	LB/A 12 in C						
3 Roundup Weathermax	22	OZ/A 14DPP	95	a 95	a 99	a 93	a 95	a
Valor	2	OZ/A 14DPP						
Ammonium Sulfate	2.5	LB/A 14DPP						
Roundup Weathermax	22	OZ/A 12 in C						
Ammonium Sulfate	2.5	LB/A 12 in C						
4 Roundup Weathermax	22	OZ/A 14DPP	95	a 95	a 99	a 92	a 95	a
Valor	2	OZ/A 14DPP						
Atrazine	1	QT/A 14DPP						
Ammonium Sulfate	2.5	LB/A 14DPP						
Roundup Weathermax	22	OZ/A 12 in C						
Ammonium Sulfate	2.5	LB/A 12 in C						
5 Roundup Weathermax	22	OZ/A 14DPP	83	b 87	b 87	b 80	b 82	ab
2,4-D Amine	24	OZ/A 14DPP						
Ammonium Sulfate	2.5	LB/A 14DPP						
Roundup Weathermax	22	OZ/A EPOST						
Atrazine	1	QT/A EPOST						
Ammonium Sulfate	2.5	LB/A EPOST						
6 Roundup Weathermax	22	OZ/A 14DPP	95	a 93	a 99	a 92	a 95	a
Valor	2	OZ/A 14DPP						
Ammonium Sulfate	2.5	LB/A 14DPP						
Roundup Weathermax	22	OZ/A 12 in C						
Atrazine	1	QT/A 12 in C						
Ammonium Sulfate	2.5	LB/A 12 in C						
7 Roundup Weathermax	22	OZ/A 14DPP	95	a 95	a 99	a 93	a 87	a
Valor	2	OZ/A 14DPP						

	Ammonium Sulfate	2.5	LB/A 14DPP						
	Roundup Weathermax	22	OZ/A 12 in C						
	Resource	3	OZ/A 12 in C						
	Ammonium Sulfate	2.5	LB/A 12 in C						
8	Roundup Weathermax	22	OZ/A 14DPP	90	a 83	bc 87	b 85	ab 78	ab
	2,4-D Amine	24	OZ/A 14DPP						
	Ammonium Sulfate	2.5	LB/A 14DPP						
	Roundup Weathermax	22	OZ/A EPOST						
	Atrazine	1	QT/A EPOST						
	Roundup Weathermax	22	OZ/A 12 in C						
	Atrazine	1	QT/A 12 in C						
	Ammonium Sulfate	2.5	LB/A 12 in C						
LSD (P=.10)				4.4	4.4	4.6	8.0	11.9	
Standard Deviation				3.1	3.1	3.2	5.6	8.2	
CV				3.41	3.41	3.39	7.55	11.03	
Grand Mean				90.63	90.38	93.96	73.54	74.79	
Bartlett's X2				0.0	0.027	0.0	6.792	1.573	
P(Bartlett's X2)				.	0.986	1.00	0.34	0.665	
Replicate F				0.000	2.853	2.882	0.845	1.945	
Replicate Prob(F)				1.0000	0.0913	0.0895	0.4502	0.1797	
Treatment F				15.484	11.877	14.668	103.377	44.654	
Treatment Prob(F)				0.0001	0.0001	0.0001	0.0001	0.0001	

# LSU Northeast Research Station

Pest Type					
Pest Code	LAMAM	LAMAM	LAMAM	BRAPP	BRAPP
Crop Code					
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Date	29/Mar/07	12/Apr/07	18/Apr/07	29/Mar/07	12/Apr/07
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%
Trt-Eval Interval	7 DA-A	21 DA-A	27 DA-A	7 DA-A	21 DA-A
Trt Treatment					
No.	Rate	Growth			
Name	Unit	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	BRAPP BRAPP BRAPP BRAPP BRAPP							
Pest Code								
Crop Code								
Part Rated	PLATOT P PLATOT P PLATOT P PLATOT P PLATOT P							
Rating Date	18/Apr/07 26/Apr/07 30/Apr/07 7/May/07 22/May/07							
Rating Data Type	CONTROL CONTROL CONTROL CONTROL CONTROL							
Rating Unit	%							
Trt-Eval Interval	27 DA-A 3 DA-B 7 DA-B 14 DA-B 14 DA-C							
Trt Treatment	Rate	Growth						
No. Name	Rate	Unit Stage	6	7	8	9	10	
1 nontreated			0	b0	c 0	b0	b0	b
2 Roundup Weathermax	22	OZ/A 14DPP	0	b0	c 0	b0	b95	a
Ammonium Sulfate	2.5	LB/A 14DPP						
Roundup Weathermax	22	OZ/A 12 in C						
Ammonium Sulfate	2.5	LB/A 12 in C						
3 Roundup Weathermax	22	OZ/A 14DPP	78	a 63	b 0	b0	b95	a
Valor	2	OZ/A 14DPP						
Ammonium Sulfate	2.5	LB/A 14DPP						
Roundup Weathermax	22	OZ/A 12 in C						
Ammonium Sulfate	2.5	LB/A 12 in C						
4 Roundup Weathermax	22	OZ/A 14DPP	87	a 77	ab0	b0	b95	a
Valor	2	OZ/A 14DPP						
Atrazine	1	QT/A 14DPP						
Ammonium Sulfate	2.5	LB/A 14DPP						
Roundup Weathermax	22	OZ/A 12 in C						
Ammonium Sulfate	2.5	LB/A 12 in C						
5 Roundup Weathermax	22	OZ/A 14DPP	0	b 85	a 90	a 95	a 95	a
2,4-D Amine	24	OZ/A 14DPP						
Ammonium Sulfate	2.5	LB/A 14DPP						
Roundup Weathermax	22	OZ/A EPOST						
Atrazine	1	QT/A EPOST						
Ammonium Sulfate	2.5	LB/A EPOST						
6 Roundup Weathermax	22	OZ/A 14DPP	77	a 77	ab0	b0	b95	a
Valor	2	OZ/A 14DPP						
Ammonium Sulfate	2.5	LB/A 14DPP						
Roundup Weathermax	22	OZ/A 12 in C						
Atrazine	1	QT/A 12 in C						
Ammonium Sulfate	2.5	LB/A 12 in C						
7 Roundup Weathermax	22	OZ/A 14DPP	80	a 75	ab0	b0	b96	a
Valor	2	OZ/A 14DPP						
Ammonium Sulfate	2.5	LB/A 14DPP						
Roundup Weathermax	22	OZ/A 12 in C						
Resource	3	OZ/A 12 in C						
Ammonium Sulfate	2.5	LB/A 12 in C						
8 Roundup Weathermax	22	OZ/A 14DPP	0	b 73	ab 90	a 95	a 95	a
2,4-D Amine	24	OZ/A 14DPP						
Ammonium Sulfate	2.5	LB/A 14DPP						

Roundup Weathermax 22	OZ/AEPOST				
Atrazine 1	QT/AEPOST				
Roundup Weathermax 22	OZ/A 12 in C				
Atrazine 1	QT/A 12 in C				
Ammonium Sulfate 2.5	LB/A 12 in C				
LSD (P=.10)	8.2	10.8	0.0	0.0	3.3
Standard Deviation	5.7	7.5	0.0	0.0	2.3
CV	14.26	13.32	0.0	0.0	2.8
Grand Mean	40.21	56.25	22.5	23.75	83.04
Bartlett's X2	0.963	2.784	0.0	0.0	0.978
P(Bartlett's X2)	0.81	0.733	.	.	0.986
Replicate F	2.882	3.398	0.000	0.000	16.585
Replicate Prob(F)	0.0895	0.0627	1.0000	1.0000	0.0002
Treatment F	169.299	66.324	0.000	0.000	625.807
Treatment Prob(F)	0.0001	0.0001	1.0000	1.0000	0.0001

# LSU Northeast Research Station

Pest Type					
Pest Code		BRAPP	BRAPP	BRAPP	BRAPP
Crop Code					
Part Rated		PLATOT P	PLATOT P	PLATOT P	PLATOT P
Rating Date		18/Apr/07	26/Apr/07	30/Apr/07	7/May/07
Rating Data Type		CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit		%	%	%	%
Trt-Eval Interval		27 DA-A	3 DA-B	7 DA-B	14 DA-B
Trt Treatment	Rate	Growth			
No.	Name	RateUnit	Stage	6	7
				8	9
				10	

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.



Roundup Weathermax 22	OZ/AEPOST			
Atrazine 1	QT/AEPOST			
Roundup Weathermax 22	OZ/A 12 in C			
Atrazine 1	QT/A 12 in C			
Ammonium Sulfate 2.5	LB/A 12 in C			
LSD (P=.10)	0.0	0.0	1.5	0.0
Standard Deviation	0.0	0.0	1.0	0.0
CV	0.0	0.0	1.66	0.0
Grand Mean	83.13	83.13	61.46	0.0
Bartlett's X2	0.0	0.0	0.0	0.0
P(Bartlett's X2)	.	.	.	.
Replicate F	0.000	0.000	1.000	0.000
Replicate Prob(F)	1.0000	1.0000	0.3927	1.0000
Treatment F	0.000	0.000	1777.000	0.000
Treatment Prob(F)	1.0000	1.0000	0.0001	1.0000

# LSU Northeast Research Station

Pest Type				
Pest Code		BRAPP	BRAPP	BRAPP
Crop Code				ZEAMX
Part Rated		PLATOT P	PLATOT P	PLATOT P PLATOT C
Rating Date		5/Jun/07	3/Jul/07	13/Aug/07 11/Apr/07
Rating Data Type		CONTROL	CONTROL	CONTROL PHYTOGEN
Rating Unit		%	%	%
Trt-Eval Interval		28 DA-C	56 DA-C	144 DA-A 20 DA-A
Trt Treatment	Rate	Growth		
No. Name	Rate Unit	Stage	11	12 13 14

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	Crop Code	Part Rated	Rating Date	Rating Data Type	Rating Unit	Trt-Eval Interval							
								ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX		
								PLATOT C	PLATOT C	GRAIN c	GRAIN c	GRAIN c		
								18/Apr/07	2/May/07	24/Aug/07	24/Aug/07	24/Aug/07		
								PHYTOGEN	PHYTOGEN	YIELD	Moisture	YIELD		
								%	%	lb/plt	%	BU		
								27 DA-A	41 DA-A					
Trt Treatment	Rate	Growth												
No. Name	Rate	Unit	Stage	15	16	17	18	19						
1 nontreated				0	b0	b1	b12	b10	b					
2 Roundup Weathermax	22	OZ/A	14DPP	0	b0	b22	a14	a163	a					
Ammonium Sulfate	2.5	LB/A	14DPP											
Roundup Weathermax	22	OZ/A	12 in C											
Ammonium Sulfate	2.5	LB/A	12 in C											
3 Roundup Weathermax	22	OZ/A	14DPP	13	a10	a23	a15	a170	a					
Valor	2	OZ/A	14DPP											
Ammonium Sulfate	2.5	LB/A	14DPP											
Roundup Weathermax	22	OZ/A	12 in C											
Ammonium Sulfate	2.5	LB/A	12 in C											
4 Roundup Weathermax	22	OZ/A	14DPP	15	a10	a24	a14	a175	a					
Valor	2	OZ/A	14DPP											
Atrazine	1	QT/A	14DPP											
Ammonium Sulfate	2.5	LB/A	14DPP											
Roundup Weathermax	22	OZ/A	12 in C											
Ammonium Sulfate	2.5	LB/A	12 in C											
5 Roundup Weathermax	22	OZ/A	14DPP	0	b0	b24	a14	a179	a					
2,4-D Amine	24	OZ/A	14DPP											
Ammonium Sulfate	2.5	LB/A	14DPP											
Roundup Weathermax	22	OZ/A	EPOST											
Atrazine	1	QT/A	EPOST											
Ammonium Sulfate	2.5	LB/A	EPOST											
6 Roundup Weathermax	22	OZ/A	14DPP	15	a10	a24	a14	a180	a					
Valor	2	OZ/A	14DPP											
Ammonium Sulfate	2.5	LB/A	14DPP											
Roundup Weathermax	22	OZ/A	12 in C											
Atrazine	1	QT/A	12 in C											
Ammonium Sulfate	2.5	LB/A	12 in C											
7 Roundup Weathermax	22	OZ/A	14DPP	15	a10	a21	a14	a156	a					
Valor	2	OZ/A	14DPP											
Ammonium Sulfate	2.5	LB/A	14DPP											
Roundup Weathermax	22	OZ/A	12 in C											
Resource	3	OZ/A	12 in C											
Ammonium Sulfate	2.5	LB/A	12 in C											
8 Roundup Weathermax	22	OZ/A	14DPP	0	b0	b23	a14	a172	a					
2,4-D Amine	24	OZ/A	14DPP											
Ammonium Sulfate	2.5	LB/A	14DPP											

Roundup Weathermax 22	OZ/AEPOST				
Atrazine 1	QT/AEPOST				
Roundup Weathermax 22	OZ/A 12 in C				
Atrazine 1	QT/A 12 in C				
Ammonium Sulfate 2.5	LB/A 12 in C				
LSD (P=.10)	1.5	0.0	2.8	0.7	20.2
Standard Deviation	1.0	0.0	1.9	0.5	14.0
CV	14.0	0.0	9.34	3.45	9.31
Grand Mean	7.29	5.0	20.5	14.03	150.67
Bartlett's X2	0.0	0.0	6.476	3.974	6.737
P(Bartlett's X2)	.	.	0.485	0.783	0.457
Replicate F	1.000	0.000	2.009	1.345	1.857
Replicate Prob(F)	0.3927	1.0000	0.1710	0.2923	0.1927
Treatment F	175.857	0.000	50.263	7.976	50.392
Treatment Prob(F)	0.0001	1.0000	0.0001	0.0005	0.0001

# LSU Northeast Research Station

Pest Type					
Pest Code					
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Part Rated	PLATOT C	PLATOT C	GRAIN c	GRAIN c	GRAIN c
Rating Date	18/Apr/07	2/May/07	24/Aug/07	24/Aug/07	24/Aug/07
Rating Data Type	PHYTOGEN	PHYTOGEN	YIELD	Moisture	YIELD
Rating Unit	%	%	lb/plt	%	BU
Trt-Eval Interval	27 DA-A	41 DA-A			

Trt Treatment	Rate	Growth			
No. Name	Rate Unit	Stage	15	16	17
					18
					19

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.

Column 19:  $TY1 = 7.288766 * [17] * (100 - [18]) / 85$