

MSU Weed Science Research Program

WEED CONTROL IN CORN WITH BALANCE FLEXX, 2011

Trial ID: C1511 Study Dir.: Andy Chomas
Conducted: CAMPUS Investigator: Christy Sprague

Date Planted: 5/10/2011 Row Spacing: 30 IN
Variety: GARST 88M51 No. of Reps: 3
Population: 30,500 % OM: 2.6
Soil Type: Loam pH: 6.2
Plot Size: 10 X 35 FT Design: RANDOMIZED COMPLETE BLOCK

Tillage: Fall Chisel, Spring Field Cultivated X2.
Fertilizer: 300 lbs/A 46-0-0 Broadcast. 125 lbs/A 19-19-19 in Row at Planting.

Table with 5 columns (A-E) and 11 rows of weather and application data including Application Timing, Date Treated, Time Treated, % Cloud Cover, Air Temp., % Relative Humidity, Wind Speed/Unit/Dir, Soil Temp., Soil/Leaf Surface M, and Soil Moist.

Table with 5 columns (A-E) showing Crop Stage at Each Application with rows for Height (In.) and Stage (L).

Table with 5 columns (A-E) showing Weed Stage at Each Application with multiple rows for Height (In.) and Stage (L) for different weed types.

Table with 2 columns (Date, Weed Name, Density) showing Weed Density (plants/sq. ft.) for weeds ANGR, CHEAL, AMARE, AMBEL, and ABUTH.

Table with 12 columns (Appl, Sprayer, Speed, Nozzle, Nozzle, Nozzle, Nozzle, Boom, GPA, Carrier, PSI) showing Application Equipment details for treatments A, B, C, D, and E.

Comments: * Weed Stage at Each Application: The order is as follows, ANGR(ANNUAL GRASS), CHEAL(COMMON LAMBSQUARTERS), AMARE(REDROOT PIGWEED), AMBEL(COMMON RAGWEED), ABUTH(VELVETLEAF).

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Weed Code									ANGR	CHEAL	AMARE	AMBEL	ABUTH
Crop Code									control	control	control	control	control
Rating Data Type									percent	percent	percent	percent	percent
Rating Unit									6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011
Rating Date									AT POST	AT POST	AT POST	AT POST	AT POST
Trt-Eval Interval									0	0	0	0	0
# Subsamples, Dec.									0	0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code						
1	Untreated						A	0	0	0	0	0	0
2	Corvus	2.6	SC	5.6	fl oz/a	EP	B	2	72	100	100	100	100
2	Atrazine	4	L	1	qt/a	EP	B						
3	Balance FLEXX	2	SC	6	fl oz/a	PRE	A	0	62	97	85	93	100
4	Balance FLEXX	2	SC	6	fl oz/a	PRE	A	0	67	100	100	100	99
4	Atrazine	4	L	1	qt/a	PRE	A						
5	Balance FLEXX	2	SC	4	fl oz/a	PRE	A	0	57	92	81	86	100
5	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP	C						
5	Ammonium Sulfate	100	DF	17	lb/100 gal	MP	C						
6	Balance FLEXX	2	SC	4	fl oz/a	EP	B	0	33	100	100	100	100
6	Ignite 280	2.34	L	22	fl oz/a	MP	C						
6	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP	C						
7	Balance FLEXX	2	SC	4	fl oz/a	EP	B	0	62	100	100	100	100
7	Atrazine	4	L	1	qt/a	EP	B						
8	Lumax	3.94	SE	2	qt/a	PRE	A	0	77	93	100	97	100
8	Touchdown Total	4.17	L	24	fl oz/a	MP	C						
8	Ammonium Sulfate	100	DF	17	lb/100 gal	MP	C						
9	Harness Xtra 5.6	5.6	L	1.6	qt/a	PRE	A	0	82	100	100	85	97
9	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP	C						
9	Ammonium Sulfate	100	DF	17	lb/100 gal	MP	C						
LSD (P=.05)								1.7	8.6	7.8	5.2	8.9	1.9
Standard Deviation								1.0	5.0	4.5	3.0	5.1	1.1
CV								519.62	8.76	5.2	3.51	6.05	1.22

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

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Weed Code									ANGR	CHEAL	AMARE	AMBEL	ABUTH
Crop Code									control	control	control	control	control
Rating Data Type									percent	percent	percent	percent	percent
Rating Unit									6/22/2011	6/22/2011	6/22/2011	6/22/2011	6/22/2011
Rating Date									14 DAPO	14 DAPO	14 DAPO	14 DAPO	14 DAPO
Trt-Eval Interval									0	0	0	0	0
# Subsamples, Dec.									0	0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code						
1	Untreated						A	0	0	0	0	0	0
2	Corvus	2.6	SC	5.6	fl oz/a	EP	B	0	65	97	100	100	100
2	Atrazine	4	L	1	qt/a	EP	B						
3	Balance FLEXX	2	SC	6	fl oz/a	PRE	A	0	45	80	70	93	100
4	Balance FLEXX	2	SC	6	fl oz/a	PRE	A	0	61	94	83	90	100
4	Atrazine	4	L	1	qt/a	PRE	A						
5	Balance FLEXX	2	SC	4	fl oz/a	PRE	A	0	86	94	97	97	95
5	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP	C						
5	Ammonium Sulfate	100	DF	17	lb/100 gal	MP	C						
6	Balance FLEXX	2	SC	4	fl oz/a	EP	B	0	93	100	100	100	100
6	Ignite 280	2.34	L	22	fl oz/a	MP	C						
6	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP	C						
7	Balance FLEXX	2	SC	4	fl oz/a	EP	B	0	40	98	100	100	100
7	Atrazine	4	L	1	qt/a	EP	B						
8	Lumax	3.94	SE	2	qt/a	PRE	A	0	95	100	92	98	98
8	Touchdown Total	4.17	L	24	fl oz/a	MP	C						
8	Ammonium Sulfate	100	DF	17	lb/100 gal	MP	C						
9	Harness Xtra 5.6	5.6	L	1.6	qt/a	PRE	A	0	81	92	82	100	93
9	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP	C						
9	Ammonium Sulfate	100	DF	17	lb/100 gal	MP	C						
LSD (P=.05)								0.0	7.7	7.4	10.5	9.0	3.9
Standard Deviation								0.0	4.4	4.3	6.1	5.2	2.3
CV								0.0	7.06	5.07	7.54	6.04	2.58

Means followed by same letter do not significantly differ (P=.05, LSD)
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Weed Code									ANGR	CHEAL	AMARE	AMBEL	ABUTH	
Crop Code														
Rating Data Type														
Rating Unit														
Rating Date														
Trt-Eval Interval														
# Subsamples, Dec.														
1	Untreated								0	0	0	0	0	
2	Corvus	2.6	SC	5.6	fl oz/a	EP	B	0	65	100	100	100	100	
2	Atrazine	4	L	1	qt/a	EP	B							
3	Balance FLEXX	2	SC	6	fl oz/a	PRE	A	0	33	71	68	87	97	
4	Balance FLEXX	2	SC	6	fl oz/a	PRE	A	0	50	95	95	97	100	
4	Atrazine	4	L	1	qt/a	PRE	A							
5	Balance FLEXX	2	SC	4	fl oz/a	PRE	A	0	79	78	92	100	98	
5	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP	C							
5	Ammonium Sulfate	100	DF	17	lb/100 gal	MP	C							
6	Balance FLEXX	2	SC	4	fl oz/a	EP	B	0	95	100	100	100	100	
6	Ignite 280	2.34	L	22	fl oz/a	MP	C							
6	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP	C							
7	Balance FLEXX	2	SC	4	fl oz/a	EP	B	0	32	100	100	100	100	
7	Atrazine	4	L	1	qt/a	EP	B							
8	Lumax	3.94	SE	2	qt/a	PRE	A	0	88	87	98	97	98	
8	Touchdown Total	4.17	L	24	fl oz/a	MP	C							
8	Ammonium Sulfate	100	DF	17	lb/100 gal	MP	C							
9	Harness Xtra 5.6	5.6	L	1.6	qt/a	PRE	A	0	76	78	95	100	96	
9	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP	C							
9	Ammonium Sulfate	100	DF	17	lb/100 gal	MP	C							
LSD (P=.05)									0.0	16.1	7.3	6.8	9.8	5.3
Standard Deviation									0.0	9.3	4.2	3.9	5.7	3.1
CV									0.0	16.15	5.33	4.74	6.52	3.49

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Weed Code	ANGR	CHEAL	AMARE	AMBEL	ABUTH							
Crop Code												
Rating Data Type	control	control	control	control	control							
Rating Unit	percent	percent	percent	percent	percent							
Rating Date	7/21/2011	7/21/2011	7/21/2011	7/21/2011	7/21/2011							
Trt-Eval Interval	43 DAPO	43 DAPO	43 DAPO	43 DAPO	43 DAPO							
# Subsamples, Dec.	0	0	0	0	0							
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code					
1	Untreated						A	0	0	0	0	0
2	Corvus	2.6	SC	5.6	fl oz/a	EP	B	60	100	100	100	100
2	Atrazine	4	L	1	qt/a	EP	B					
3	Balance FLEXX	2	SC	6	fl oz/a	PRE	A	37	93	90	100	100
4	Balance FLEXX	2	SC	6	fl oz/a	PRE	A	37	92	90	100	100
4	Atrazine	4	L	1	qt/a	PRE	A					
5	Balance FLEXX	2	SC	4	fl oz/a	PRE	A	78	83	92	97	97
5	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP	C					
5	Ammonium Sulfate	100	DF	17	lb/100 gal	MP	C					
6	Balance FLEXX	2	SC	4	fl oz/a	EP	B	95	100	98	100	100
6	Ignite 280	2.34	L	22	fl oz/a	MP	C					
6	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP	C					
7	Balance FLEXX	2	SC	4	fl oz/a	EP	B	30	98	100	100	100
7	Atrazine	4	L	1	qt/a	EP	B					
8	Lumax	3.94	SE	2	qt/a	PRE	A	89	95	95	99	98
8	Touchdown Total	4.17	L	24	fl oz/a	MP	C					
8	Ammonium Sulfate	100	DF	17	lb/100 gal	MP	C					
9	Harness Xtra 5.6	5.6	L	1.6	qt/a	PRE	A	75	78	92	98	100
9	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP	C					
9	Ammonium Sulfate	100	DF	17	lb/100 gal	MP	C					
LSD (P=.05)								26.2	8.2	8.7	3.9	3.8
Standard Deviation								15.1	4.7	5.0	2.2	2.2
CV								27.2	5.78	5.97	2.54	2.5

Means followed by same letter do not significantly differ (P=.05, LSD)

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