

MSU Weed Science Research Program

NON-CROP: Dicamba formulation comparison on non-resistant broadleaf weeds

Trial ID: NC02-11 Study Dir.: Sprague, Powell
Conducted: MSU Campus T-12 Investigator: Christy Sprague

Date Planted: Row Spacing: IN
Variety: No. of Reps: 4
Population: % OM: 7
Soil Type: Loam pH: 3.8
Plot Size: 10 X 30 FT Design: RANDOMIZED COMPLETE BLOCK

Tillage: Spring soil finish
Fertilizer: None

Crop and Weed Description

Table with 4 columns: Weed, Code, Common Name, Scientific Name. Lists weeds 1-5 including CHEAL, AMAPO, AMBEL, ABUTH, and SINAR.

Application Description

Table with 3 columns: Application Timing, A, B. Lists parameters like Date Treated, Time Treated, % Cloud Cover, Air Temp., etc.

Weed Stage at Each Application

Table with 3 columns: Weed Name, A, B. Lists weed names and their stages at applications A and B.

Application Equipment

Table with 11 columns: Appl, Sprayer, Speed, Nozzle, Nozzle, Nozzle, Boom, Width, GPA, Carrier, PSI. Lists equipment for applications A and B.

Comments: Select Max (12 fl oz/A) + COC 1% v/v) was applied to the entire study to control grass weeds.

MSU Weed Science Research Program

NON-CROP: Dicamba formulation comparison on non-resistant broadleaf weeds

Trial ID: NC02-11
Conducted: MSU Campus T-12Study Dir.: Sprague, Powell
Investigator: Christy Sprague

Weed Code	CHEAL	AMAPO	AMBEL	ABUTH	SINAR
Crop Code					
Rating Data Type	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Rating Date	7/14/2011	7/14/2011	7/14/2011	7/14/2011	7/14/2011
Trt-Eval Interval	7 DA-A	7 DA-A	7 DA-A	7 DA-A	7 DA-A
# Subsamples, Dec.					

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	CHEAL	AMAPO	AMBEL	ABUTH	SINAR
1	Clarity	4	L	0.25	lb ai/a	3" WDS	A	73.8	65.0	60.0	51.3	43.8
1	Class Act Next Generation		L	2.5	% v/v	3" WDS	A					
2	Clarity	4	L	0.375	lb ai/a	3" WDS	A	75.0	61.3	63.8	63.8	47.5
2	Class Act Next Generation		L	2.5	% v/v	3" WDS	A					
3	Clarity	4	L	0.5	lb ai/a	3" WDS	A	73.8	61.3	66.3	65.0	47.5
3	Class Act Next Generation		L	2.5	% v/v	3" WDS	A					
4	Mon 100555	4	L	0.25	lb ai/a	3" WDS	A	70.0	58.8	61.3	57.5	37.5
4	Class Act Next Generation		L	2.5	% v/v	3" WDS	A					
5	Mon 100555	4	L	0.375	lb ai/a	3" WDS	A	71.3	60.0	62.5	63.8	42.5
5	Class Act Next Generation		L	2.5	% v/v	3" WDS	A					
6	Mon 100555	4	L	0.5	lb ai/a	3" WDS	A	72.5	69.3	66.3	63.8	55.0
6	Class Act Next Generation		L	2.5	% v/v	3" WDS	A					
7	Mon 100111	5	L	0.25	lb ai/a	3" WDS	A	71.3	58.8	58.8	41.3	40.0
7	Class Act Next Generation		L	2.5	% v/v	3" WDS	A					
8	Mon 100111	5	L	0.375	lb ai/a	3" WDS	A	70.0	58.8	55.0	57.5	50.0
8	Class Act Next Generation		L	2.5	% v/v	3" WDS	A					
9	Mon 100111	5	L	0.5	lb ai/a	3" WDS	A	71.3	55.0	62.5	61.3	52.5
9	Class Act Next Generation		L	2.5	% v/v	3" WDS	A					
10	2,4-D Amine	4	L	0.5	qt/a	3" WDS	A	71.3	61.3	55.0	65.0	55.0
10	Class Act Next Generation		L	2.5	% v/v	3" WDS	A					
11	Clarity	4	L	0.25	lb ai/a	6" WDS	B					
11	Class Act Next Generation		L	2.5	% v/v	6" WDS	B					
12	Clarity	4	L	0.375	lb ai/a	6" WDS	B					
12	Class Act Next Generation		L	2.5	% v/v	6" WDS	B					
13	Clarity	4	L	0.5	lb ai/a	6" WDS	B					
13	Class Act Next Generation		L	2.5	% v/v	6" WDS	B					
14	Mon 100555	4	L	0.25	lb ai/a	6" WDS	B					
14	Class Act Next Generation		L	2.5	% v/v	6" WDS	B					
15	Mon 100555	4	L	0.375	lb ai/a	6" WDS	B					
15	Class Act Next Generation		L	2.5	% v/v	6" WDS	B					
16	Mon 100555	4	L	0.5	lb ai/a	6" WDS	B					
16	Class Act Next Generation		L	2.5	% v/v	6" WDS	B					
17	Mon 100111	5	L	0.25	lb ai/a	6" WDS	B					
17	Class Act Next Generation		L	2.5	% v/v	6" WDS	B					
18	Mon 100111	5	L	0.375	lb ai/a	6" WDS	B					
18	Class Act Next Generation		L	2.5	% v/v	6" WDS	B					
19	Mon 100111	5	L	0.5	lb ai/a	6" WDS	B					
19	Class Act Next Generation		L	2.5	% v/v	6" WDS	B					
20	2,4-D Amine	4	L	0.5	qt/a	6" WDS	B					
20	Class Act Next Generation		L	2.5	% v/v	6" WDS	B					

MSU Weed Science Research Program

NON-CROP: Dicamba formulation comparison on non-resistant broadleaf weeds

Trial ID: NC02-11 Study Dir.: Sprague, Powell
Conducted: MSU Campus T-12 Investigator: Christy Sprague

Weed Code	CHEAL	AMAPO	AMBEL	ABUTH	SINAR
Crop Code					
Rating Data Type	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Rating Date	7/14/2011	7/14/2011	7/14/2011	7/14/2011	7/14/2011
Trt-Eval Interval	7 DA-A	7 DA-A	7 DA-A	7 DA-A	7 DA-A
# Subsamples, Dec.					

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code
LSD (P=.05)							
Standard Deviation							
CV							

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.

MSU Weed Science Research Program

NON-CROP: Dicamba formulation comparison on non-resistant broadleaf weeds

Trial ID: NC02-11
Conducted: MSU Campus T-12Study Dir.: Sprague, Powell
Investigator: Christy Sprague

Weed Code	CHEAL	AMAPO	AMBEL	ABUTH	SINAR
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	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A
# Subsamples, Dec.					

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	CHEAL	AMAPO	AMBEL	ABUTH	SINAR
1	Clarity	4	L	0.25	lb ai/a	3" WDS	A	71.3	57.5	63.8	55.0	62.5
1	Class Act Next Generation		L	2.5	% v/v	3" WDS	A					
2	Clarity	4	L	0.375	lb ai/a	3" WDS	A	72.5	57.5	64.3	56.3	66.3
2	Class Act Next Generation		L	2.5	% v/v	3" WDS	A					
3	Clarity	4	L	0.5	lb ai/a	3" WDS	A	76.3	60.0	67.5	62.5	60.0
3	Class Act Next Generation		L	2.5	% v/v	3" WDS	A					
4	Mon 100555	4	L	0.25	lb ai/a	3" WDS	A	73.8	61.3	58.8	55.0	60.0
4	Class Act Next Generation		L	2.5	% v/v	3" WDS	A					
5	Mon 100555	4	L	0.375	lb ai/a	3" WDS	A	71.3	57.5	66.3	55.0	65.0
5	Class Act Next Generation		L	2.5	% v/v	3" WDS	A					
6	Mon 100555	4	L	0.5	lb ai/a	3" WDS	A	73.8	60.0	66.3	61.7	66.3
6	Class Act Next Generation		L	2.5	% v/v	3" WDS	A					
7	Mon 100111	5	L	0.25	lb ai/a	3" WDS	A	68.8	52.5	55.0	46.3	57.5
7	Class Act Next Generation		L	2.5	% v/v	3" WDS	A					
8	Mon 100111	5	L	0.375	lb ai/a	3" WDS	A	71.3	55.0	60.0	62.5	61.3
8	Class Act Next Generation		L	2.5	% v/v	3" WDS	A					
9	Mon 100111	5	L	0.5	lb ai/a	3" WDS	A	72.5	60.0	67.5	58.8	62.5
9	Class Act Next Generation		L	2.5	% v/v	3" WDS	A					
10	2,4-D Amine	4	L	0.5	qt/a	3" WDS	A	72.5	58.8	62.5	65.0	67.5
10	Class Act Next Generation		L	2.5	% v/v	3" WDS	A					
11	Clarity	4	L	0.25	lb ai/a	6" WDS	B	65.0	51.3	48.8	50.0	43.8
11	Class Act Next Generation		L	2.5	% v/v	6" WDS	B					
12	Clarity	4	L	0.375	lb ai/a	6" WDS	B	66.3	53.8	47.5	48.3	43.8
12	Class Act Next Generation		L	2.5	% v/v	6" WDS	B					
13	Clarity	4	L	0.5	lb ai/a	6" WDS	B	65.0	53.8	47.5	51.3	47.5
13	Class Act Next Generation		L	2.5	% v/v	6" WDS	B					
14	Mon 100555	4	L	0.25	lb ai/a	6" WDS	B	65.0	47.5	46.3	43.8	46.3
14	Class Act Next Generation		L	2.5	% v/v	6" WDS	B					
15	Mon 100555	4	L	0.375	lb ai/a	6" WDS	B	60.0	46.3	47.5	41.7	40.0
15	Class Act Next Generation		L	2.5	% v/v	6" WDS	B					
16	Mon 100555	4	L	0.5	lb ai/a	6" WDS	B	62.5	45.0	50.0	42.5	43.8
16	Class Act Next Generation		L	2.5	% v/v	6" WDS	B					
17	Mon 100111	5	L	0.25	lb ai/a	6" WDS	B	62.5	50.0	43.8	42.5	43.8
17	Class Act Next Generation		L	2.5	% v/v	6" WDS	B					
18	Mon 100111	5	L	0.375	lb ai/a	6" WDS	B	65.0	53.8	48.8	45.0	46.3
18	Class Act Next Generation		L	2.5	% v/v	6" WDS	B					
19	Mon 100111	5	L	0.5	lb ai/a	6" WDS	B	67.5	51.3	47.5	45.0	45.0
19	Class Act Next Generation		L	2.5	% v/v	6" WDS	B					
20	2,4-D Amine	4	L	0.5	qt/a	6" WDS	B	63.8	52.5	45.0	50.0	45.0
20	Class Act Next Generation		L	2.5	% v/v	6" WDS	B					

MSU Weed Science Research Program

NON-CROP: Dicamba formulation comparison on non-resistant broadleaf weeds

Trial ID: NC02-11 Study Dir.: Sprague, Powell
Conducted: MSU Campus T-12 Investigator: Christy Sprague

Weed Code	CHEAL	AMAPO	AMBEL	ABUTH	SINAR
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	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A
# Subsamples, Dec.					

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code
LSD (P=.05)							
Standard Deviation							
CV							

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.

MSU Weed Science Research Program

NON-CROP: Dicamba formulation comparison on non-resistant broadleaf weeds

Trial ID: NC02-11
Conducted: MSU Campus T-12Study Dir.: Sprague, Powell
Investigator: Christy Sprague

Weed Code	CHEAL	AMAPO	AMBEL	ABUTH	SINAR
Crop Code					
Rating Data Type	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Rating Date	7/30/2011	7/30/2011	7/30/2011	7/30/2011	7/30/2011
Trt-Eval Interval	23 DA-A	23 DA-A	23 DA-A	23 DA-A	23 DA-A
# Subsamples, Dec.					

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	CHEAL	AMAPO	AMBEL	ABUTH	SINAR
1	Clarity	4	L	0.25	lb ai/a	3" WDS	A	80.0	72.0	74.5	78.3	77.5
1	Class Act Next Generation		L	2.5	% v/v	3" WDS	A					
2	Clarity	4	L	0.375	lb ai/a	3" WDS	A	86.8	81.3	82.8	82.5	83.3
2	Class Act Next Generation		L	2.5	% v/v	3" WDS	A					
3	Clarity	4	L	0.5	lb ai/a	3" WDS	A	95.5	83.8	90.0	83.0	89.3
3	Class Act Next Generation		L	2.5	% v/v	3" WDS	A					
4	Mon 100555	4	L	0.25	lb ai/a	3" WDS	A	77.0	67.0	66.5	71.3	75.0
4	Class Act Next Generation		L	2.5	% v/v	3" WDS	A					
5	Mon 100555	4	L	0.375	lb ai/a	3" WDS	A	83.8	79.5	75.8	77.5	77.5
5	Class Act Next Generation		L	2.5	% v/v	3" WDS	A					
6	Mon 100555	4	L	0.5	lb ai/a	3" WDS	A	90.0	85.0	83.8	85.0	83.3
6	Class Act Next Generation		L	2.5	% v/v	3" WDS	A					
7	Mon 100111	5	L	0.25	lb ai/a	3" WDS	A	82.5	72.5	69.5	69.5	68.3
7	Class Act Next Generation		L	2.5	% v/v	3" WDS	A					
8	Mon 100111	5	L	0.375	lb ai/a	3" WDS	A	85.0	76.3	77.0	75.0	75.0
8	Class Act Next Generation		L	2.5	% v/v	3" WDS	A					
9	Mon 100111	5	L	0.5	lb ai/a	3" WDS	A	94.5	88.5	83.8	83.8	81.3
9	Class Act Next Generation		L	2.5	% v/v	3" WDS	A					
10	2,4-D Amine	4	L	0.5	qt/a	3" WDS	A	85.0	67.5	66.5	88.8	99.0
10	Class Act Next Generation		L	2.5	% v/v	3" WDS	A					
11	Clarity	4	L	0.25	lb ai/a	6" WDS	B	81.3	62.5	60.0	60.0	52.5
11	Class Act Next Generation		L	2.5	% v/v	6" WDS	B					
12	Clarity	4	L	0.375	lb ai/a	6" WDS	B	87.5	71.3	66.3	65.0	55.0
12	Class Act Next Generation		L	2.5	% v/v	6" WDS	B					
13	Clarity	4	L	0.5	lb ai/a	6" WDS	B	93.5	88.5	78.3	72.5	70.0
13	Class Act Next Generation		L	2.5	% v/v	6" WDS	B					
14	Mon 100555	4	L	0.25	lb ai/a	6" WDS	B	86.3	72.5	63.3	65.8	60.0
14	Class Act Next Generation		L	2.5	% v/v	6" WDS	B					
15	Mon 100555	4	L	0.375	lb ai/a	6" WDS	B	86.3	75.0	71.3	71.3	57.5
15	Class Act Next Generation		L	2.5	% v/v	6" WDS	B					
16	Mon 100555	4	L	0.5	lb ai/a	6" WDS	B	99.0	85.0	80.0	78.8	65.0
16	Class Act Next Generation		L	2.5	% v/v	6" WDS	B					
17	Mon 100111	5	L	0.25	lb ai/a	6" WDS	B	80.0	65.8	61.3	62.5	56.3
17	Class Act Next Generation		L	2.5	% v/v	6" WDS	B					
18	Mon 100111	5	L	0.375	lb ai/a	6" WDS	B	94.8	82.5	73.5	66.3	68.3
18	Class Act Next Generation		L	2.5	% v/v	6" WDS	B					
19	Mon 100111	5	L	0.5	lb ai/a	6" WDS	B	96.8	87.5	77.0	81.3	67.0
19	Class Act Next Generation		L	2.5	% v/v	6" WDS	B					
20	2,4-D Amine	4	L	0.5	qt/a	6" WDS	B	96.8	72.5	68.5	72.0	78.3
20	Class Act Next Generation		L	2.5	% v/v	6" WDS	B					

MSU Weed Science Research Program

NON-CROP: Dicamba formulation comparison on non-resistant broadleaf weeds

Trial ID: NC02-11 Study Dir.: Sprague, Powell
Conducted: MSU Campus T-12 Investigator: Christy Sprague

Weed Code	CHEAL	AMAPO	AMBEL	ABUTH	SINAR
Crop Code					
Rating Data Type	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Rating Date	7/30/2011	7/30/2011	7/30/2011	7/30/2011	7/30/2011
Trt-Eval Interval	23 DA-A	23 DA-A	23 DA-A	23 DA-A	23 DA-A
# Subsamples, Dec.					

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code
LSD (P=.05)							
Standard Deviation							
CV							

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.

