

North Carolina State University

Tolerance of Coastal Bermudagrass to Plateau and Select Biostimulents

Trial ID: 03-D45
Location: Lake Wheeler

Study Dir.: Travis Gannon
Investigator: Fred Yelverton

Weed Code											CYNDA	CYNDA	CYNDA	CYNDA	DIGIS
Crop Code											PHYTO	PHYTO	PHYTO	PHYTO	CONTROL
Rating Data Type											%	%	%	%	%
Rating Unit											8-4-03	8-18-03	9-4-03	9-17-03	8-18-03
Rating Date											14 DA-A	28 DA-A	45 DA-A	58 DA-A	28 DA-A
Trt-Eval Interval															
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Spray Volume					
1	Plateau X-77	2 L	L	4 oz/a	% v/v			JULY 21 A			0.0 a	0.0 b	0.0 a	0.0 a	60.0 ab
2	Plateau X-77	2 L	L	6 oz/a	% v/v			JULY 21 A			0.0 a	23.8 a	0.0 a	0.0 a	58.8 ab
3	Plateau TraFix X-77	2 L	L	4 oz/a	% v/v	1 qt/a		JULY 21 A			0.0 a	0.0 b	0.0 a	0.0 a	48.8 b
4	Plateau TraFix X-77	2 L	L	6 oz/a	% v/v	1 qt/a		JULY 21 A			0.0 a	0.0 b	0.0 a	0.0 a	67.5 a
5	Plateau K-Tionic X-77	2 L	L	4 oz/a	% v/v	1 qt/a		JULY 21 A			0.0 a	0.0 b	0.0 a	0.0 a	62.5 ab
6	Plateau K-Tionic X-77	2 L	L	6 oz/a	% v/v	1 qt/a		JULY 21 A			1.3 a	0.0 b	0.0 a	0.0 a	73.8 a
7	Plateau Hydra-Hume X-77	2 L	L	4 oz/a	% v/v	1 gal/a		JULY 21 A			0.0 a	0.0 b	0.0 a	0.0 a	31.3 c
8	Plateau Hydra-Hume X-77	2 L	L	6 oz/a	% v/v	1 gal/a		JULY 21 A			0.0 a	0.0 b	0.0 a	0.0 a	51.3 b
9	Plateau MXPA Plus X-77	2 L	WP	4 oz/a	% v/v	2.4 g/a		JULY 21 A			0.0 a	0.0 b	0.0 a	0.0 a	60.0 ab
10	Plateau MXPA Plus X-77	2 L	WP	6 oz/a	% v/v	2.4 g/a		JULY 21 A			0.0 a	5.0 b	0.0 a	0.0 a	62.5 ab
11	Nontreated										0.0 a	0.0 b	0.0 a	0.0 a	0.0 d
LSD (P=.05)											1.09	5.53	0.00	0.00	15.59
Standard Deviation											0.75	3.83	0.00	0.00	10.80
CV											663.33	146.49	0.0	0.0	20.62
Grand Mean											0.11	2.61	0.0	0.0	52.39
Bartlett's X2											0.0	0.241	0.0	0.0	7.273
P(Bartlett's X2)											.	0.623	.	.	0.609
Replicate F											1.000	0.659	0.000	0.000	4.487
Replicate Prob(F)											0.4064	0.5838	1.0000	1.0000	0.0102
Treatment F											1.000	14.023	0.000	0.000	14.581
Treatment Prob(F)											0.4654	0.0001	1.0000	1.0000	0.0001

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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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Spray Volume		
1	Plateau X-77	2 L	L	4 oz/a	% v/v			JULY 21 A			43.8 cde	33.8 bc
2	Plateau X-77	2 L	L	6 oz/a	% v/v			JULY 21 A			58.8 abc	56.3 ab
3	Plateau TraFix X-77	2 L	L	4 oz/a	% v/v	1 qt/a		JULY 21 A			60.0 abc	42.5 ab
4	Plateau TraFix X-77	2 L	L	6 oz/a	% v/v	1 qt/a		JULY 21 A			71.3 a	57.5 ab
5	Plateau K-Tionic X-77	2 L	L	4 oz/a	% v/v	1 qt/a		JULY 21 A			46.3 bcd	50.0 ab
6	Plateau K-Tionic X-77	2 L	L	6 oz/a	% v/v	1 qt/a		JULY 21 A			65.5 ab	73.8 a
7	Plateau Hydra-Hume X-77	2 L	L	4 oz/a	% v/v	1 gal/a		JULY 21 A			25.0 ef	55.0 ab
8	Plateau Hydra-Hume X-77	2 L	L	6 oz/a	% v/v	1 gal/a		JULY 21 A			18.8 fg	41.3 ab
9	Plateau MXPA Plus X-77	2 L	WP	4 oz/a	% v/v	2.4 g/a		JULY 21 A			36.3 def	60.0 ab
10	Plateau MXPA Plus X-77	2 L	WP	6 oz/a	% v/v	2.4 g/a		JULY 21 A			65.0 ab	52.5 ab
11	Nontreated										0.0 g	0.0 c
LSD (P=.05)											19.29	33.86
Standard Deviation											13.36	23.45
CV											29.96	49.37
Grand Mean											44.59	47.5
Bartlett's X2											13.795	7.821
P(Bartlett's X2)											0.13	0.552
Replicate F											0.564	3.487
Replicate Prob(F)											0.6428	0.0278
Treatment F											11.466	2.632
Treatment Prob(F)											0.0001	0.0197

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.

Trial Comments

7-10-03 - Trial area was mowed to 5 inch mowing height.

7-21-03 - Trial was initiated. Trial area was a fair stand of bermudagrass mixed in with clover, large crabgrass, dallisgrass, and other grassy weeds.

8-4-03 - Trial was evaluated for bermudagrass phytotoxicity. Minimal phytotoxicity present from any of the treated plots.

8-18-03 - Trial was evaluated for bermudagrass phytotoxicity and large crabgrass control. Minimal phytotoxicity present from any of the treated plots, large crabgrass injured in select plots.