

# Michigan State University

## 1996 Turfgrass Fertility Study



TABLE 3. Clipping Weight from Karsten Tissue Analysis

Clipping weights in grams

Carrier	Rate & Timing	June 24	July 1	July 8	July 22	July 29	Season Avg.
130 A	0.25 lbs./wk.	28.9 de	14.9 c	07.3 d	18.2 bcd	16.4 bcd	17.1
<b>131 A<sup>1</sup></b>	<b>0.19 lbs./wk.</b>	<b>36.7 ab</b>	<b>20.9 a</b>	<b>11.0 b</b>	<b>36.7 a</b>	<b>24.4 a</b>	<b>25.9</b>
134 A	0.16 lbs./wk.	26.2 e	13.5 c	05.3 e	15.5 de	13.9 de	14.9
<b>135 A<sup>1</sup></b>	<b>0.12 lbs./wk.</b>	<b>30.2 d</b>	<b>14.5 c</b>	<b>07.2 d</b>	<b>19.0 bc</b>	<b>17.3 bc</b>	<b>17.6</b>
130 A	1.0 lb./mo.	33.4 c	14.3 c	09.5 c	19.5 cd	15.8 cd	18.5
<b>131 A<sup>1</sup></b>	<b>0.75 lbs./mo.</b>	<b>38.7 a</b>	<b>18.4 b</b>	<b>14.4 a</b>	<b>29.7 b</b>	<b>18.9 b</b>	<b>24.0</b>
134 A	0.62 lbs./mo.	28.9 de	13.8 c	07.6 d	14.5 e	12.5 e	15.5
<b>135 A<sup>1</sup></b>	<b>0.47 lbs./mo.</b>	<b>34.7 be</b>	<b>15.7 c</b>	<b>10.6 bc</b>	<b>21.5 cd</b>	<b>16.0 cd</b>	<b>19.7</b>
Probiility		.00	.00	.00	.00	.00	
LSD @ 0.05		3.1	2.3	1.1	3.9	2.7	

Applicaton Dates for MSU Turfgrass Study

All Treatments

June 3

July 1

August 6

Weekly Feeding Treatments

June 10, June 17, June 25

July 9, July 16, July 22, July 31

August 13, August 21, August 28, September 4

TABLE 4. Nitrogen Content of Clippings from Karsten Tissue Analysis

Nitrogen content in clippings

Carrier	Rate & Timing	July 1	July 8	July 22	Season Avg.
130 A	0.25 lbs./wk.	4.25 be	4.26 d	4.16 bc	4.22
<b>131 A<sup>1</sup></b>	<b>0.19 lbs./wk.</b>	<b>4.91 a</b>	<b>4.71 c</b>	<b>4.78 a</b>	<b>4.8</b>
134 A	0.16 lbs./wk.	4.07 cd	4.36 d	3.81 d	4.08
<b>135 A<sup>1</sup></b>	<b>0.12 lbs./wk.</b>	<b>4.31 b</b>	<b>4.15 d</b>	<b>4.14 bc</b>	<b>4.2</b>
130 A	1.0 lb./mo.	3.93 de	4.77 bc	4.07 c	4.25
<b>131 A<sup>1</sup></b>	<b>0.75 lbs./mo.</b>	<b>4.36 b</b>	<b>5.46 a</b>	<b>4.72 a</b>	<b>4.85</b>
134 A	0.62 lbs./mo.	3.73 e	4.28 d	3.75 d	3.92
<b>135 A<sup>1</sup></b>	<b>0.47 lbs./mo.</b>	<b>4.03 cd</b>	<b>5.02 b</b>	<b>4.27 b</b>	<b>4.44</b>
Probiility		.00	.00	.00	.00
LSD @ 0.05		.23	.29	.17	.17

Applicaton Dates for MSU Turfgrass Study

All Treatments

June 3

July 1

August 6

Weekly Feeding Treatments

June 10, June 17, June 25

July 9, July 16, July 22, July 31

August 13, August 21, August 28, September 4

*Note: Inclusion of Menefee Humate in 131 and 135 consistently increased clipping weight and tissue nitrogen in every observation but one.*

Means in columns followed by the same letter are not significantly different at the 5% level using the LSD means separation test.

<sup>1</sup>Menefee Humate™ added at 27.5% w/w