

Effect of Foliar Applications of Urea Nitrogen and  
Ferrous Sulfate on Quality of Adelphi Kentucky Bluegrass

Foliar applications of urea nitrogen and ferrous sulfate were made to Adelphi Kentucky bluegrass on July 21. Ferrous sulfate improved turf color one week after application when no nitrogen was applied but the effect dissipated within a few days (See Table 33). When nitrogen was applied, there was no response to the ferrous sulfate treatments.

Fall Nitrogen Study on Omega Perennial Ryegrass

A study to evaluate the response of Omega perennial ryegrass to fall applications of 3 sources of nitrogen, ammonium nitrate and two organic nitrogen materials from the Ringer Corporation, Lawn Keeper and Lawn Restore. Treatment and data are given in Table 34., Responses were somewhat variable depending on date of application. The Lawn Keeper and Lawn Restore material are also being evaluated for their effects on controlling thatch. Results are still preliminary.

Table 34. Fall nitrogen fertility study on Omega perennial ryegrass at the Hancock Turfgrass Research Center. Treatments initiated in 1982. Three replications. Nitrogen applied at 1 pound per 1000 square feet.

Treatment		Turfgrass quality rating (9=best)					
Date of application	Carrier	Sept 28	Oct 4	Oct 11	Oct 19	Nov 16	Dec 15
--	Check	4.2c <sup>x</sup>	3.5b	4.2eg	3.3d	3.2d	2.5e
Sept 17	Am. nitrate	6.0b	4.7a	5.3bc	4.7bc	5.0bc	5.0bd
Sept 17	Lawn Keeper	6.8ab	5.2a	6.0b	5.2b	5.3bc	5.2bd
Sept 17	Lawn Restore	7.3a	5.3a	5.8b	4.7bc	4.2cd	3.7de
Oct 4	Am. nitrate	4.3c	3.3b	7.2a	7.3a	7.2a	7.8a
Oct 4	Lawn Keeper	4.3c	3.5b	4.8ce	5.5b	5.7b	6.5ab
Oct 4	Lawn Restore	4.0c	3.5b	5.0cd	5.5b	5.7b	5.8bc
Oct 26	Am. nitrate	4.2c	3.3b	3.5g	3.2d	3.3d	4.0ce
Oct 26	Lawn Keeper	4.0c	3.3b	4.2eg	3.2d	3.2d	5.3bd
Oct 26	Lawn Restore	4.8c	3.8b	4.0fg	3.3d	3.2d	5.5bd
Nov 2	Am. nitrate	4.2c	3.2b	4.0fg	3.0d	3.3d	4.2ce
Nov 2	Lawn Keeper	4.7c	3.7b	4.3df	3.3d	3.2d	5.5bd
Nov 2	Lawn Restore	4.5c	3.3b	4.3df	3.3d	3.5d	5.7bc
Nov 16	Am nitrate	4.7c	3.3b	3.8fg	3.3d	3.0d	6.5ab
Nov 16	Lawn Keeper	4.3c	3.3b	3.7fg	3.2d	2.8d	5.5bd
Nov 16	Lawn Restore	4.3c	3.5b	4.2eg	3.5cd	3.2d	5.7bc

<sup>x</sup> - means in columns followed by the same letter are not significantly different from each other at the 5% level using the Duncan's Multiple Range Test.