STOP 11

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Nitrogen carrier evaluations. A summary of 1967 and 1968 turfgrass quality ratings for a series of nitrogen carrier treatments applied to Merion bluegrass is given in Table 10. Treatments, applied on the 15th of the specified month, were initiated in 1967. Ammonium nitrate has been superior to the organic carriers and multiple applications give higher quality turf. The 12-pound nitrogen application from ureaformaldehyde gave the highest quality turf in 1968 compared to the 6-pound treatment of other carriers. Heavier spring applications of soluble carriers resulted in reduced dandelion densities. A similar observation was made at the Traverse City plots where crabgrass infestations are more severe when slow release nitrogen carriers are applied in the spring compared to a soluble source.

Table 10. Average turfgrass quality ratings for the Merion bluegrass fertility study on fine sandy loam at East Lansing. Nitrogen is applied at a rate of six pounds per 1000 sq. ft. Averages for 3 replications on 7 dates.

| Treatment | Visual turfgrass quality rating (1-best; 9-poorest) 1967 | 1968 | Dandelions per 1000 sq. ft. 1968 |
|---|---|---|---|
| Ureaformaldehyde - 12 lbs./1000 sq. ft. | 4.1 | 2.4 | 123 |
| 33-0-0;Apr,May,Aug | 2.7 | 2.7 | 94 |
| 33-0-0;May,Nov | 4.1 | 2.9 | 106 |
| 33-0-0;Apr,Aug,Sept | 3.2 | 3.0 | 134 |
| 33-0-0;May,Feb | 4.0 | 3.1 | 123 |
| 33-0-0;Apr,Aug | 3.1 | 3.1 | 105 |
| 33-0-0;Apr | 2.6 | 3.2 | 37 |
| 33-0-0;May | 2.7 | 3.2 | 29 |
| 6-3-0;Apr,May,Aug | 4.2 | 3.3 | 200 |
| 6-3-0;Apr | 3.5 | 3.7 | 77 |
| 33-0-0;Aug | 4.3 | 3.7 | 171 |
| Ureaformaldehyde;Apr | 5.0 | 3.9 | 180 |
| Ureaformaldehyde;Apr,May,Aug | 5.6 | 4.3 | 200 |
| Check | 6.8 | 8.0 | 875 |