

Fertilizer Source Evaluations on Perennial Ryegrass at Colorado State University (1993)

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Nitrogen Application Rates and Dates of Application:

Fertilizers were applied at 1 lb. N/1000 square feet (unless otherwise noted) on: 24 May, 28 June, August 12, September 25 in 1993. Treatments in bold type have only 24 May and 12 August as application dates; these applications are at 2 or 3 lbs. N/1000 square feet (as indicated in parenthesis). Nutralene "a" (see attached table) received fertilizer on May 24 and July 19. Nutralene "b" received fertilizer on May 24 and August 12.

Quality Ratings:

Quality ratings were taken within 2 days of the dates indicated in the attached table. Quality was rated on a scale of 1 to 9, with "9" being the highest possible rating. A rating of "6" would be considered to be of acceptable, but lower, quality. The last 2 columns in the table indicate the percentage of rating dates when the average rating for that fertility treatment equaled or exceeded 7.5 or 8.5, respectively.

Performance of Sustane Fertilizer in 1993

The higher use rates of Sustane (5-2-4) performed best and most uniformly on this fairway study. The most effective treatment received 4 applications, each at 2 lbs. Of N per 1000 square feet. The two-application treatments, with either 2 or 3 pounds of N per 1000 square feet, were also very effective. Color was generally very good with the higher treatment rates, but also generally acceptable when four applications were made at the one-pound N rate. Although clipping yields were not taken, vertical growth rates were not excessive at any time, and growth appeared to be quite uniform with all treatments throughout the growing season. There was no evidence of burning or phytotoxicity with the single 2- or 3-pound N applications, made in May and August.