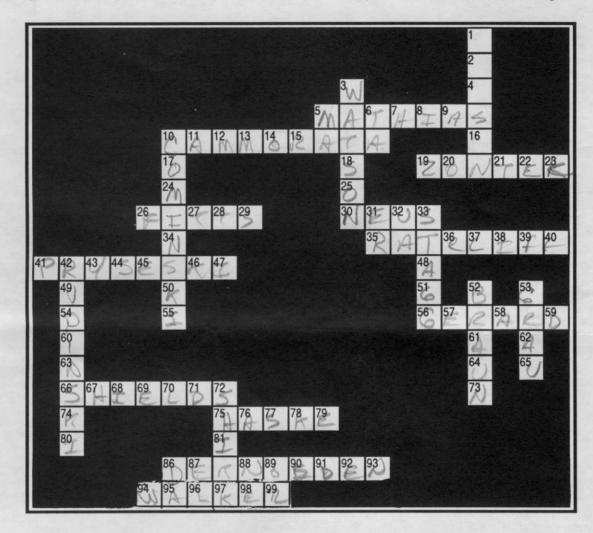
How Well Do You Know the MAAGCS?

The following crossword puzzle is comprised of MAAGCS members' last names. Clues to many of the questions may be found by looking in the past three issues of Turfgrass Matters. Stumped? The answers are listed on Page 8.



ACROSS

- 5. Lecturer and advisor for IAA students
- 10. Always brings "pop" with him when he visits
- USGA Agronomist who always ends his talks with "Go golf."
- 26. First president of the MAAGCS
- 30. Host of this year's MAAGCS picnic
- 35. Everyone always calls him a "sandbagger"
- 41. New superintendent of Cattail Creek
- 56. Superintendent made general manager
- 66. Owner of Glen Dale CC
- 75. MAAGCS member who hosts Kemper Open
- 86. UM professor who researches summer patch
- 94. Crazy Lesco salesman

DOWN

- 1. Lady MAAGCS member, former MTC president
- Honorary member who once managed Sparrows Point Country Club
- 10. Loves to punch holes in your greens
- 33. Always brings crabs to the picnic
- 42. Father & son, both superintendents
- 52. Former Supt., now representing Isolite
- 53. Honorary member who developed Crown Vetch
- 72. Host of this year's Supt./Pro tournament

Turfgrass Fertilization and Water Quality

by Joseph B. Hackman, Ph.D, Rutgers Cooperative Extension Service. Reprinted from The Greenerside, newsletter of GCSA New Jersey

Pollution of surface and groundwater are environmental concerns with the use of nitrogen fertilizers on turfgrass. A recent University of Maryland study (Gross et al., 1990, J. Environ. Qual. 19:663-668) determined losses of nutrients and sediments via runoff and leaching from turfgrass. The study compared N fertilizer applied in a liquid and granular form and an unfertilized control. Nitrogen (as urea) was applied at a rate of 4.5 lbs. per 1000 sq. ft. per year according to appropriate spring and fall feeding schedules. Surface runoff was collected from plots with slopes of five to seven percent from significant rainfall events throughout the year. Groundwater samples taken

monthly at 0.75 m depth were analyzed for nitrate.

Although nutrient losses via runoff were small, total N in runoff was approximately twofold higher in the liquid and granular treatments when compared to the unfertilized control. There was no difference between liquid and granular treatments with respect to runoff. The concentrations of nitrate in percolate under the granular, liquid and unfertilized control treatments were 1.02, 0.85 and 0.33 ppm. The liquid and granular treatments were significantly higher than the control but not different from each other. These nitrate concentrations are lower than the Environmental Protection Agency drinking water standard of 10 ppm nitrate and are considerably lower than nitrate concentrations previously reported under corn. This study demonstrated that very low concentrations of nitrate were found below the root zone of

fertilized and unfertilized turf and that nitrogen and phosphorus losses in runoff from established turfgrass were low. Sediment and nutrient losses via runoff from established turf are generally low because of the resistance to surface water movement provided by a dense turf stand. The study concludes "that properly managed and judiciously fertilized turf is not a significant source of nutrients or sediment in surface or groundwater."

Answers to Crossword

Across Down 5. Mathias 1. Jensen 10. Cammarota 3. Watson 19. Zontek 10. Cominski 26. Fitts 33. Stagg 30. Neus 42. Rudinski

52. Braun

53. Grau

41. Pryseski
 56. Gerard

35. Ratcliff

- 66. Shields 75. Haske
- 86. Dernoeden
- 94. Walker

Map to USNAGC and Hubbard Hall Left at Traffic light, Gate 8 Old Severn River Bridge USNA 648 Golf Traffic Light Course 2 450 South "New" Severn River Exit 27 Bay Rt. 50 E Bridge Bridge

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