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
19. 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
3. 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 two-fold 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

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<thead>
<tr>
<th>Across</th>
<th>Down</th>
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<tbody>
<tr>
<td>5.</td>
<td>Mathias</td>
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<td>10.</td>
<td>Cammarota</td>
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<td>26.</td>
<td>Fitts</td>
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<td>30.</td>
<td>Neus</td>
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<td>35.</td>
<td>Ratcliff</td>
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<td>41.</td>
<td>Pryseski</td>
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<td>56.</td>
<td>Gerard</td>
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<td>66.</td>
<td>Shields</td>
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<td>75.</td>
<td>Haske</td>
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<td>86.</td>
<td>Dernoeden</td>
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<td>94.</td>
<td>Walker</td>
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</tbody>
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Map to USNAGC and Hubbard Hall

ISOLITE
POROUS CERAMICS

IS BEING USED TO...

- ELIMINATE LOCALIZED DRY SPOTS
- INCREASE SEED GERMINATION
- INCREASE THE ROOT MASS OF SOD
- ELIMINATE COMPACTION
- BLENDED DIRECTLY INTO TOP-DRESSING
- IMPROVE GREEN & TEE CONSTRUCTION
- AMEND NATIVE SOILS-GREENS & TEES
- DRAINAGE-GREENS, BUNKERS & TEES

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