

USGA Green Section Funds \$1,000,000 In New Research Projects

Funding for 15 new university research projects totaling \$1 million have been approved by the Green Section of the United States Golf Association.

Most of the funding is aimed at multi-year studies, with seven of the studies targeting turfgrass development and management, two projects looking at golf course construction practices, and six projects investigating pesticide and nutrient use.

The USGA already has 72 studies in progress and has committed more than \$18 million in research grants since 1983.

For a complete list of research studies funded by the USGA Green Section, visit the USGA webpage at www.usga.org.

The Green Section was founded in 1920 and remains involved in every phase of golf course maintenance and management. These activities include funding research to develop improved strains of turfgrass that require less water and are more tolerant of stress, and the promotion of environmentally sensitive construction and maintenance practices.

New Research Projects for 2000

Integrated Turfgrass Management

Biological Control of White Grubs on Golf Courses by Native Parasitic Wasps, University of Kentucky, Daniel Potter, 2 years, \$21,475.

Identification and Metabolic Diversity of Rhizobacteria from Bent & Bermuda Greens Clemson, University Horace Skipper, 2 years, \$17,400.

Establishment & Management of Seeded Bermudagrass in the Transition Zone, University of Arkansas, Michael Richardson, 3 years, \$14,333.

Relationship of Environment, Management, and Physiology to Bermudagrass Decline, Texas A&M Univ., Richard White, 3 years, \$24,995.

Integrating Biologically Based Strategies for Turfgrass Pest Management (Phase II), University of Georgia, S. Kristine Braman, 3 years, \$12,557.

Turfgrass Germplasm Enhancement

Development of Gray Leaf Spot Resistant Perennial Ryegrass Through Breeding and Biotechnological Approaches, University of Kentucky, Mark Farman, 3 years, \$25,000.

Identification of Creeping Bentgrass (*Agrostis palustris* Huds.) Cultivars Using Simple Sequence Repeats (SSRs), Rutgers Univ., William Meyer, 2 years, \$24,940.

Course Construction Practices

Effect of Rootzone Material and Depth on Moisture Retention in USGA Greens Michigan State Univ., Bernard Leinauer, 3 years, \$25,000.

Determining the Bulk Mechanical Behavior of Sand for Rootzone Mixtures, Penn State University, Charles Mancino, 2 years, \$7,691.

Pesticide and Nutrient Fate Modeling

Best Management of Post-application Irrigation To Reduce Exposure to Volatile & Foliar Pesticide Residues, University of Massachusetts, John Clark, 3 years, \$24,955.

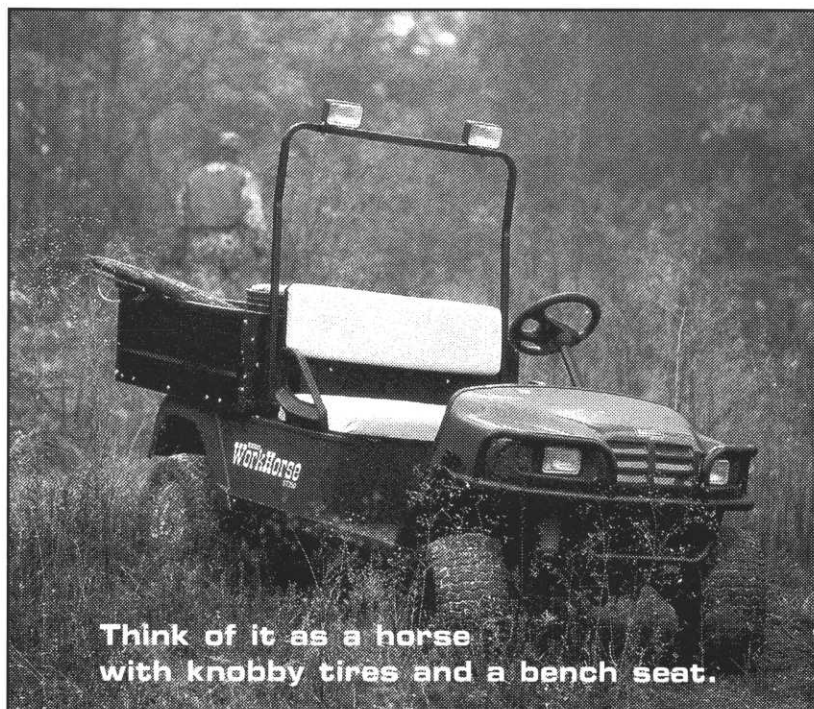
From Small Plots to Course Watersheds: Calibration of Computer Model Scenarios for Pesticide & Nutrient Runoff & Leaching in Turfgrass Environments, University of Georgia, Kevin L. Armbrust, 3 years, \$25,000.

Controlling Nutrient Runoff from Fairways Using Vegetative Filter Strips, Oklahoma State Univ., Greg Bell, 3 years, \$25,000.

Surface & Subsurface Water Quality Data Collection and Model Development for a Watershed Scale Turfgrass System, USDA - ARS, Kevin King, 3 years, \$24,933.

Further Evaluation and Modeling of Pesticide Partitioning Data from the UCR Putting Green Lysimeters, University of Calif./Riverside, Laosheng Wu, 2 years, \$12,467.

Phosphorus Fertilization of USGA-type Greens: Placement, Rates, and Leaching, Auburn University, Beth Guertal, 3 years, \$25,162.



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