



GOLF FOUNDATION OF COLORADO

November 9, 2011

GolfPreserves
4700 South Syracuse Street, Suite 375
Denver, Colorado 80237

Noble and Bill,

I wanted to give you a brief update on the funds provided by Golfpreserves in the amount of \$12,000 to the Golf Foundation of Colorado, Inc. through the sale of carbon credits.

GFCO, Inc. received a proposal from Dr. Yaling Qian and Dr Tony Koski of Colorado State University and Dr. Ron Follet and Katrina Gillette of the USDA-ARS outlining their plans for golf course carbon research.

Their project, titled **Carbon Footprint of Colorado Golf Courses**, is summarized below:

The goal of this project is to determine the C footprint of golf courses in Colorado through evaluating energy consumption of golf course facilities as a whole, C sequestration of different sections of golf courses, and N trace gas emissions.

Objectives:

1. To evaluate golf fuel and electricity associated with course maintenance activities (electricity used for irrigation, fuel and energy used for mowing, spraying, and aeration, vehicle and golf cart uses); and b) fuel and electricity associated with clubhouse operations.
2. To determine carbon sequestration rates of different sectors of golf courses.
3. To determine trace gas fluxes on golf course fairways, rough, and putting greens.

Research Benefits to Golf Course Superintendents

- The project will define a golf course's carbon emissions and the proportions to individual activities. The results can be used to identify potential improvements of golf course operations that can reduce the overall footprint.
- Provide C sequestration capacity data for different sectors of a golf course;
- Provide information on the total greenhouse gas budget of golf course operation;
- The footprint can be used to benchmark the facility's own operation;
- Research will aid in the development of carbon budget model on golf courses.
- Possibility (if requested) to speak at RMGCSA engagement with applicable results;
- Authoring article in **Reporter** and/or **GCM** publication with applicable results

The GFCO, Inc. board overwhelming approved the request and granted \$12,000 to fund the CSU/USDA-ARS proposal.

The Golf Foundation of Colorado, Inc., in conjunction with the Rocky Mountain Golf Course Superintendents Association, is proud to be a participant with Golfpreserves in funding successful research that will determine the carbon emissions and carbon sequestration capabilities of golf courses in Colorado that can be used as a model for the rest of the nation.

Sincerely,

Lance J. Johnson, CGCS
President, Golf Foundation of Colorado, Inc.