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1 What is your company's primary business? (check ONLY ONE)

- F Sports Complex G Athletic Field and/or Park Architect/Designer
T School, College or University P Park
H Other (please specify) _____

2 Which of the following best describes your title? (check ONLY ONE)

- A EXECUTIVE/ADMINISTRATOR — President, Owner, Partner, Director, General Manager, Chairman of the Board, Purchasing Agent, Athletic Director
B MANAGER/SUPERINTENDENT — Superintendent, Landscape/Ground Maintenance Manager, Foreman, Supervisor
C GOVERNMENT OFFICIAL — Government Commissioner, Agent, Other Government Official
D SPECIALIST — Architect, Designer, Consultant, Agronomist, Horticulturist, Certified Specialist
F COACH E Other (please specify) _____

3 Do you have the authority to buy, specify or recommend products and/or services for your business or organization?

Y Yes N No

4 Yearly operating expenditures (excluding salaries)

- F Over \$1 million C \$50,001 - \$100,000
E \$500,001 - \$1 million B \$25,001 - \$50,000
D \$100,001 - \$500,000 A \$25,000 and under

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ization program, or by acidification of the irrigation water. In some cases, water with high residual sodium carbonate may require acidification with sulfuric, N-phuric acid (a type of urea-sulfuric acid), or phosphoric acids, or by use of a sulfur burner (which produces sulfurous acid).

Amendments may be applied directly to the turfgrass/soil or injected into the irrigation system. Acidification of water by acid injection requires unique measurements and equipment. A turfgrass manager must work closely with a consulting laboratory to determine whether acidification is required and, if it is, how it may best be accomplished.

There are many advantages to treating recycled water with direct injection of amendments into the irrigation system, among which are:

- More effective than surface application (gradual and frequent application)
- No disruption in site use
- Reduced labor
- No dust problems
- Reduced burn potential of sulfur
- Reduced risk of "overdose"
- Reduced pH and salinity fluctuations

There are also potential disadvantages to direct injection:

- Material more expensive
- Equipment and maintenance expensive
- Danger of handling acids
- Irrigation efficiency and uniformity must be optimal
- Segregation of areas is not possible (e.g., greens versus fairways in golf courses)

As human population grows and fresh water becomes increasingly scarce, recycled water is a viable alternative to costly, limited potable water for irrigating turfgrass sites. Recycled water is often better tolerated by turfgrasses than by other landscape plants; simultaneously, turfgrass venues, with their large expanses and trained maintenance staffs, are particularly well-suited to incorporate recycled water in their irrigation programs. Urban population growth ensures an expansion of turfgrass sites for a variety of recreational and functional uses, and this means that irrigation with Purple Gold will be a permanent part of our urban landscape schemes. ■

M. Ali Harivandi, PhD, is an extension specialist at the University of California Cooperative Extension. This excerpt was reprinted with his permission and that of Dr. Kimberly Erusha of the USGA Green Section.