Scientists make breakthrough in drought-resistant tall fescue

By JAY FINEGAN

GRIFFIN, Ga. — University of Georgia turfgrass scientists have developed a new drought-resistant strain of fescue that promises to be a boon to golf courses. The so-called Southeast Tall Fescue is the first release to emerge from the university’s fescue breeding program, started in 1992. The seed is expected to be marketed by Landmark Seed Co. and available sometime next year.

Ronny Duncan, Ph.D., professor of breeding and stress physiology in the department of crop and soil sciences, headed up the painstaking development project. His search for grass samples that could be used in the experimentation took him to South America, Africa, the Bahamas and all over Georgia.

Duncan’s colleague in the fescue breakthrough, Bob Carrow, Ph.D., professor of turfgrass science, said the new variety will likely see duty on golf courses as rough and fairway framing and on clubhouse grounds. He said recommended mowing heights — two inches in southern cliines, an inch and a half in more moderate regions — would bar fairway use.

When the breeding program began, the goal was to develop turf-type tall fescues with the attributes necessary to persist under Georgia conditions. The primary goal was to come up with a fescue that could withstand drought, acid soil complex, and high soil temperatures, while generating enough carbohydrates — plant food produced by photosynthesis — to maintain strong roots during hot summer months. Additionally, the scientists sought a fescue strain with good turf quality, in shoot density, color and growth rate, and which would exhibit pest-resistant qualities and strong seed production.

BOOT CAMP FOR PLANTS

It took eight years, but finally Duncan and Carrow produced a strain, through natural selection, that met the criteria. “Southeast Tall Fescue,” Carrow said, “is very, very drought resistant.”

The scientists subjected their various experimental strains to severe stress and water deprivation during a “plant boot camp” that killed between 95 and 99 percent of them. “That’s the only way you can identify the ones that have super

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At Montreux, Heinricks thrives on annual Reno Tahoe Open

By DOUG SAUNDERS

RENO, Nev. — The long, hot, sunny days of Nevada summer never come quickly enough for Doug Heinricks, head superintendent here at Montreux Golf and Country Club.

The Iowa native is in his second year caring for the bentgrass fairways of this massive Jack Nicklaus-designed golf course on the eastern slope of Mount Rose, just south of Reno — “The Biggest Little City in the World.” His challenge is nurturing lush, consistent fairways and greens, not only for the discerning members of this private facility, but also for the recently held Reno Tahoe Open, a PGA Tour event.

“I love it when the warm weather sets in, because I need to have my soil temperatures come up in order to stimulate microbial activity and root growth,” he said. “The soil at the base of the mountains is decomposed granite, which makes it easily compacted and hard to penetrate. Irrigation water seems to run off rather than soak in. But it is a challenge that I am glad to take on just to be in this region.”

Montreux opened in 1997 in the midst of a golf construction boom in these parts. More than 140 holes have been built in four years. Montreux has established itself as the premier private club on the eastern slope of the

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Supers rate Audubon program highly

SELKIRK, N.Y. — A survey by Audubon International has found that taking part in the Audubon Cooperative Sanctuary Program for golf courses (ACSP) brings verifiable environmental benefits. When queried on a number of measures to improve wildlife habitat, protect water quality and reduce chemical use, ACSP members — primarily course superintendents — reported significant improvements in their environmental management practices. They also reported that they sacrificed little, if anything, in terms of playing quality or golfer satisfaction.

Audubon International launched the ACSP in 1991, in conjunction with the U.S. Golf Association, as an environmental education program designed to help golf courses enhance and protect wildlife habitat and natural resources. Today, 2,140 courses in the United States are enrolled in the program, and

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ISTRC adds new greens mix

OLATHE, Kan. — International Sports Turf Research Center (ISTRC), based here near Kansas City, recently created a second company, ISTRC NML, to provide physical properties analysis for the construction and reconstruction of greens.

ISTRC developed the first ISTRC system of physical properties analysis mainly for existing golf course greens. Their system of undisturbed core analysis has produced data from thousands of cores that has resulted in the guidelines for new bent and Bermuda grasses that refine U.S. Golf Association (USGA) specs.

ISTRC NML (New Mix Lab) was created to conduct tests required to meet USGA Green Section guidelines for new construction and reconstruction of greens. ISTRC NML qualifies for USGA recommendation by meeting the criteria and earning the accreditation of the American Association for Laboratory Accreditation (AAL). Dave Doherty, founder of both companies, said that ISTRC NML is a natural extension of the firm’s capabilities. “Imagine the benefits of the data that we have already compiled when applied to New Mix Lab technologies. As the only company with two labs, one for existing greens and one for new construction, we have a combined operation that will be an invaluable asset to the new course from inception through maturity,” he said. “We’re excited about all that we can offer our clients today.”

In 1990, Doherty and Leon Howard, who wrote the original USGA specs, began to monitor sand-based greens, a task which no one had then bothered to do. “When we first started this company, we were really just out to grow grass on athletic fields for kids,” Doherty said. “But now we do about 40 of the top 100 courses in the country.”

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INTRODUCING THE NEW TORO GROUNDSMASTER 3500-D.

The new 3500-D is the only rotary trim mower on the market that gives you a tournament quality cut. With its patent-pending Contour Plus decks, you're ensured of the cleanest cut while virtually eliminating scalping. Thanks to its popular Sidewinder cutting system, you can now trim around trees, ponds and bunkers, plus vary your tire tracking, easier than ever. And with the rotary deck's rear rollers, you can have tournament quality striping every day. The 3500-D. There's never been anything like it. Until now. To learn more, see your Toro distributor. Or visit www.toro.com.