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Extreme Drought Leads to Extreme Measures

VEGAS COURSE RIPS OUT IRRIGATED TURF TO COMPLY WITH WATER RESTRICTIONS

By Shane Sharp

That the southwestern U.S. is mired in one of the worst droughts in history is no longer front-page news. The extreme measures some golf courses are taking to cope with the worsening conditions and tighter water restrictions are worth noting, however.

Steve Swanson, superintendent at the Sienna GC in the golf-rich Las Vegas suburb of Summerlin, has removed 14.1 acres of irrigated turf from the upscale daily-fee course to comply with local water restrictions.

For its conservation efforts, Sienna received a $300,000 rebate from the Southern Nevada Water Authority (SNWA). But the rebate may do little to offset the hard times that could remain ahead. If the drought continues at its current clip, Sienna could remove a total of 60 acres of turf and spend close to a $1 million tearing apart a perfectly good golf course.

The question circulating among local superintendents is whether or not golf courses should be the primary target of heavy-handed water restrictions that have essentially left them no choice but to tear out significant portions of grass. To the voting public, the area's more than 50 golf courses appear to devour more than their share of water. In reality, the golf course industry is responsible for a mere 8 percent of regional water consumption, according to the SNWA.

Water use by the metro area's 1.6 million residents, by comparison, accounts for about 65 percent. Swanson says the politics of the situation are inevitable.

"Let's see, you can go after 50 golf courses or 1.6 million people," Swanson says. "It is not rocket science which one you go after. Let's be honest, a lot of this boils down to politics."

Clark County's two main water sources don't discriminate between homes and golf courses, however. Lake Mead, the source of 85 percent of Las Vegas' water, has dropped 74 feet in the past two years and is at 63 percent of its capacity, according to the SNWA. Lake Powell, further up the Colorado River, is down 95 feet and is at 50-percent capacity.

"Things could and probably will
get worse before they get better," Swan-son says. “Right now we’re restricted to about 8 acre feet of water per acre, per year. That could change to 6 feet in a few weeks.”

Swanson says most Siena residents have been tolerant of the course’s situation. “We sent out letters informing them of the drought situation and that we were removing turf.”

While only 3 years old, Siena was permitted in the mid-1990s shortly before the existing restriction that limits new courses to 5 acres of turf per hole. The Brian Curley/Lee Schmidt-designed course originally contained 150 acres of turf and was conceived as a “parkland-style course” in the desert. By this month, it could be down to 136 acres of turf. By late fall or early winter, it could be down to 90 acres.

The long-term prognosis for Siena is good, according to Swanson, despite the imminent transition from park-land- to desert-style course. Siena has solid financial backing from its owners, a supportive residential base and a generous maintenance budget. Swanson is also convinced the integrity of the course’s design can be retained during the entire process.

“Most of the turf that will be removed will be in areas that aren’t in play,” he says. “It will change the look and feel of the course, but I don’t think it will be more difficult to play.”

At least one local water official is convinced that Las Vegas-area courses will come out of the drought fine.

“We have some of the best superintendents in the world, and they will reinvent the way golf is played here,” says Doug Bennett, conservation manager for the SNWA.

Swanson appreciates the vote of confidence, but feels it’s optimistic. “I’m worried about some courses,” he says. “They will not be able to afford to do this. When it’s all said and done, we will spend $900,000 of our own money. That and the cost of water going up will force some clubs out of business.”

Courses that survive the first few years of tighter water restrictions should eventually be able to recoup their up-front turf removal costs through savings on water. Swanson says he currently pays $2.27 per thousand gallons. Come Oct. 1, the rate will rise to $3.

“We are looking at about a four-year payback for the turf removal when you factor in water savings,” Swanson says.

Siena is not the only course making a pre-emptive strike on tighter water restrictions. Red Rock CC, a private course in Summerlin, is replacing 14 acres of rough with drought-tolerant plants and xeriscape. South of town, the Boulder City GC is ripping out close to 30 acres of grass.
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found in the nation's water bodies as
claimed by activists.

“Natural sources such as leaves,
pollen, soil erosion, flower parts, and pet
and waterfowl waste contribute signifi-
cantly to high phosphorus levels in urban
lakes, ponds and rivers,” he added.

Skillen said there has not been enough
documented research to counter the unsub-
stantiated claims of activists.

Fisher follows Whitman
Linda Fisher, deputy administrator of the
EPA, resigned in July. Her announcement
came one day before EPA Administrator
Christine Whitman stepped down from her
position.

Novozymes takes Roots
Salem, Va-based Novozymes Biologicals
says its recent acquisition of Roots Inc. in
June will strengthen its position in the mar-
ket for environmental microorganisms, which
allow environmentally friendly growth
enhancement and disease control for turf.

Industry loses top architect
The golf course industry lost one of its top ar-
chitects when Robert Muir Graves died in
June from cancer. Graves, 72, began his
career in 1955 as a landscape architect be-
fore slowly transitioning into golf course archi-
tecture full-time in 1960. Graves' design port-
folio includes more than 75 new golf courses.

Protection Plants
TURF-SEED TAKES ACTION TO COMBAT CROSS-POLLINATION FEARS
FROM SCOTT'S ROUNDUP READY BENTGRASS

By Frank H. Andorka Jr., Managing Editor

One Oregon turfgrass breeder has planted 250 of what he called “sentinel” plants
in farmers' fields that surround test plots of glyphosate-resistant bentgrass being
grown by a competitor to see how far the pollen from those plots will travel under
open-breeding conditions.

Bill Rose, chairman of Turf-Seed, told distributors at his company’s Field Day
event that there were 400 acres of
glyphosate-resistant turf being
grown in Oregon, and he’s con-
cerned about the possibility that it
will cross-breed with non-
glyphosate-resistant turf. So Rose
approached farmers he knew in the
Madras, Ore., region where the
fields are located and asked them
to let him plant his “sentinels” to
monitor how far the pollen travels.
The guard plants will be tested pe-
riodically to see if they've become
glyphosate resistant.

The genetically modified turf is called Roundup Ready bentgrass and has been
developed in a joint effort between The Scotts Co. and Monsanto. The companies
have mechanically inserted a gene to modify the plant’s DNA and make it resis-
tant to Monsanto's nonselective herbicide Roundup. They hope to someday make
it easier for superintendents to control turf weeds, especially Poa annua.

Rose says he's also researching how far the prevailing winds can carry pollen
from genetically engineered plants at his research facility in Canby, Ore. So far, the
trials have confirmed that the pollen will travel at least 1,000 yards, but some tests
have indicated that it can travel further, he says. He added that he's working with
the Environmental Protection Agency on the tests.

The Scotts Co. disputed Rose’s claims.

“We've conducted extensive research regarding pollen flow
and outcrossing,” the company said in a prepared statement.
“First, the only bentgrass being grown in the Madras area is
within our Oregon Department of Agriculture-approved con-
trol area. There are no other bentgrass fields within 100 miles.
That's one of the reasons we chose to plant there.

“Second, bentgrass is not sexually compatible with other
genus species, so there is no chance of outcrossing that would
transfer the glyphosate-resistant trait to say, fescues or blue-
grasses, for example,” the statement continued. “Additionally,
the new variety is only resistant to glyphosate, so other herbi-
cides can control bentgrass in seed production environments.
Even if it does outcross to bentgrass plants growing on ditch
banks, those hybrid plants can be controlled with other herbi-
cides or by mechanical removal.”

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Paul B. Latshaw, CGCS
Oak Hill Country Club
Rochester, New York
A Monumental Achievement

BETWEEN THE WASHINGTON MONUMENT AND THE CAPITOL BUILDING, THE SMITHSONIAN PAID TRIBUTE TO THE BIRTHPLACE OF GOLF

By Frank H. Andorka Jr., Managing Editor

Frank Morse, construction superintendent for Landscapes Unlimited, could hardly believe his eyes when he went to scope out the firm’s latest project on Memorial Day — a 40-yard hole in Washington D.C.’s National Mall.

The hole was part of the Smithsonian Institution’s Folk-life Festival, held June 25-29 and July 2-6, and was part of a Scottish heritage exhibit.

“I walked down by the White House, the Vietnam Memorial and the Lincoln Memorial, and there was the site for the hole in the middle of it all,” Morse says. “On one end of the Mall was the Washington Monument and on the other was the Capitol. I knew I was working on sacred ground.”

Each year, the Smithsonian’s festival promotes an understanding of domestic and international folk customs, and the featured country in 2003 was Scotland. It originally planned only to feature Barry Kerr of Heritage Golf in St. Andrews, a fourth-generation golf club maker, making wood-shaft clubs. But Kerr called his friend Michael Hurdzan, a principal of the Columbus, Ohio, firm Hurdzan Fry Golf Design, with the idea of creating a hole as a backdrop for his demonstrations.

“I’ve known Barry for a long time, and when he called me with this idea, I thought it would be cool,” Hurdzan says. “So we called the Smithsonian and said we’d like to move some earth on the National Mall to build this hole, and they said OK.”

Hurdzan says he loosely modeled the hole after St. Andrews’ famous 17th “Road Hole,” replete with three sod bunkers (varying in depth from 4 feet to 6 feet) and an undulating 1,500 square foot green.

“It was fun to watch people come out of the Metro [Washington’s subway] station, and the first thing they saw was the hole,” Hurdzan says. “You saw them do a double take and scratch their heads as they wondered what in the devil it was.”

Morse says the construction disturbed between 6,000 square feet to 7,000 square feet of dirt. The project took four times as long as expected to build because of the rain that inundated the East Coast this spring. Normally, Landscapes Unlimited could have finished the project in

Continued on page 19
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Continued from page 16

seven to 10 days, but it took four weeks instead, he added.

"It was labor-intensive since we had to build the hole by hand," Morse says. "We couldn’t bring heavy construction equipment on to the Mall."

Both Landscapes Unlimited and Hurdzan Fry donated their time and labor to making the project a reality, and other vendors donated materials and equipment to the hole.

So which lucky superintendent took care of this hallowed site? That honor fell to Dean Graves, certified superintendent at the Chevy Chase (Md.) Club and a Golfdom Advisory Staff member, who says he considered himself more of an advisor to the project. "It rained so much this spring that the last time I went down to look at it [in late June], it looked like Scotland," Graves says, laughing. "It was neat being a part of the project."

Graves says the grounds superintendent of the National Mall asked questions about how to handle washouts in the bunkers and how to mow the greens so they weren’t scalped.

After the festival was over, the hole was plowed under, and the Mall was returned to its former state. But for one brief moment, golf held a place among America’s greatest monuments.

"I think that it recognizes that golf is a mainstream pursuit in the United States, and its connection to Scotland proves that it’s also universal," Hurdzan says. "For the Smithsonian to put golf front and center in this way was a tribute to the reputation the sport has throughout the world."

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It's the antithesis of Augusta National GC. What Augusta is — historic, hallowed and high-falutin' — Golf Plus is not. If Augusta is the glamorous Rolls Royce of golf courses, then Golf Plus is the humble Pinto with 152,832 miles — and counting.

Golf Plus is a par-three executive nine-hole course and driving range located about five miles from Augusta National. The two courses are located on the same famed Washington Road. But the similarities stop there. Cold.

Regis Costabile is the owner/general manager/superintendent/teaching professional/cash register clerk/phone attendant of Golf Plus. You might think he'd resent the club down the road and all that it stands for — power, money and prestige — but that's not the case at all.

The prodigious Augusta machine helps Costabile's itty-bitty business, especially during Masters week. “Augusta is absolutely great for my business,” Costabile announces.

Except on this ugly April day. It's Monday of Master's week and what looks like the beginning of monsoon season in Georgia. A steady, hard and chilly rain refuses to let up. And for the first time in 20 years, Augusta cancels the day's practice round and closes the course to spectators.

It's a sad say for the thousands of spectators who showed up to watch some golf. Many drove several hours from Northern states, but were left pimento cheese sandwichless and holding bags from Burger King. “When Augusta closes during Masters week, you know the weather has to be bad,” Costabile says.

It's one of those dreary days where everything looks like it's colored in black and white, except Costabile's untucked bright-yellow polo shirt. He sits at a small table in the center of his cluttered, pint-sized pro shop watching the Iraqi war on CNN. A cat naps peacefully on a chair nearby. They are the only souls in the place.

Costabile says Golf Plus, located a pitching wedge down the street from Club Car, would be packed if the weather was as half as sunny as his shirt. There would be a line of people waiting to get on the driving range, and each of the nine holes on the executive course would be four-deep with golfers.

Instead, his business for the day has gone down the drain with the rain. But Costabile, a tall and friendly man who sports silver hair, a well-trimmed mustache, a George Hamilton-like tan and a Jimmy Buffett-type attitude, doesn't seemed too miffed about the day's lost business and the weatherman's forecast of rain for the week's remainder.

Costabile, who has owned Golf Plus for 13 years, says the business will eventually kick in, even after Masters week. That's when the locals, who normally lay low until the tournament is over, dust off their drivers and head to his range.

“We had a good year last year,” Costabile says. “They absolutely beat the grass off the ground. You can always tell how good a year you had by how much grass is left at the end of it.”

Although he enjoys wearing his turf maintenance hat, he admits it's no fun fixing the army of divots left on the driving range after a busy day. “The only way to realize how much work it is, is to let 10 people with 100 golf balls each stand on your front lawn and hit them,” he says. “Then when they leave you have to repair the turf.”

Oh, the pain of running your own business and having to be the jack of all trades. Would Costabile trade in Golf Plus for a gig at the "other" course down the road that's literally located on the other side of the railroad tracks?

Not a chance.

While Costabile agrees with the throngs that say Augusta is one of the greatest courses in the universe, he's content to make his living mowing the turf, keeping the books and doing just about everything else at Golf Plus. There are plenty of miles left on the business.

Costabile is perfectly happy working in the shadow of the giant.

Aylward, editor of Golfdom, can be reached at 440-891-2770 or laylward@advanstar.com.