Current drought only hints at water problems to come

Drought conditions continue to plague huge regions of the United States, posing enormous challenges for course superintendents. In the southeastern states, including Florida, Georgia, Alabama and South Carolina, the situation has deteriorated from serious to critical. In metro Atlanta and many other areas, for example, water restrictions are now in place.

Farther west, Missouri recorded its driest April on record. In Arizona, the stretch from October to April was the second driest ever. The story in Texas is no better. And much of the great American "breadbasket" — including Kansas, Nebraska and Oklahoma — is now drought-stricken.

In time, the rains probably will return. But if you listen to Professor Ronny Duncan, of the University of Georgia, the long-term outlook for fresh water isn't very pretty — not in the United States, nor anywhere else. Duncan, a Ph.D. specializing in the development of turf grasses for stressful conditions, says "we've got a situation here that's not going to get any better than it is right now, and it will get progressively worse."

Duncan frames his position against the backdrop of a wildly exploding global population and a rapidly growing thirst for potable water. A few facts he cited recently at an Atlanta and many other areas, for example, water restrictions are now in place.

1. According to United Nations' projections, world population will double to 12 billion people by 2100.
2. Global demand for fresh, potable water will double every 20 years.
3. Renewable water resources per person decreased 50 percent between 1960 and 1998. Another 50-percent reduction is projected by 2025.
4. Between five and 32 inches over the next 100 years, depending on the severity of the "greenhouse effect."
5. Water quality and quantity will be a dominant worldwide concern in the 21st century, Duncan maintains. "The coming water problems, he predicts, "will significantly impact entire societies. The whole issue of water availability is going to change, and I think it's going to change very fast."

Aginst Duncan's grim scenario, golf courses are bound to face even greater societal and regulatory pressure to lower water usage. Faced with a choice between watering courses or providing the essential resource to their burgeoning populations, there's no doubt where government authorities will come down on the issue.

Fortunately, Duncan says, the golf industry is somewhat ahead of the curve. New grass varieties are coming on stream, more courses are irrigating with effluent or "gray water," and irrigation audits are on the rise. Amazingly, the possibility of irrigating with sea water now also exists.

"We don't have to sacrifice anything from the golf side, or in the quality of the grass," he says, "but we have to change our mentality on how we manage these jobs. And we can be proactive in showing how we're environmentally responsive to this. The golf industry needs to present a positive image to the public that says, 'Hey, we are environmental stewards and we're going to stay on top of this with our management tactics.'"

Superintendent Brian Sullivan, at Bel-Air Country Club in Los Angeles and many others with that approach. "Water is going to be the main issue throughout the country," he says. "Certainly in Southern California is it our biggest issue. We need to do our best to conserve it, and we need to communicate our conservation efforts, so when water boards allocate the water, turf is right up there with all the recreational activities that compete for that water."

Duncan points to drought-tolerant grasses as one promising example. Seed research companies have made nice strides in developing grasses that can survive in harsh, dry conditions. "We're starting to see a trend in that direction," he observes. "Those grasses are beginning to pay off with reduced course watering."

He is also seeing greater emphasis on efficiency in irrigation. More superintendents are intent on fitting the heads and coverage to very specific situations, he says, and then, instead of doing blanket coverage, they are starting to tie in irrigation with evapotranspiration and weather conditions. And increasingly, he adds, superintendents are ordering irrigation audits.

"Irrigation companies come in and run these audits," he says. "They go hole to hole, sprinkler to sprinkler. They look at coverage and make sure the course is getting the maximum benefit."

With one strain of grass — seashone paspalum, which Duncan helped develop — it's possible to water golf courses with ocean water. You need a coarse, sandy soil, and it takes very intensive management to keep the salts moving down through the profile, but it can be done. If you have to go to straight ocean water, you're in a very desperate situation. But if that's the scenario you're up against, we now have the capabilities that can help, that can keep the grass growing."

All these steps and more will be needed as the earth's population continues to boom and the scramble for water intensifies. The golf industry, however, need not be a casualty. "It's not just one thing that's going to solve the problem," Duncan says. "We have to move on multiple fronts, and be proactive in how we do things."

Return of traditional course design is well underway

"What has been will be again, what has been done will be done again; there is nothing new under the sun." Ecclesiastes, 1:9

The author, Solomon, was referring to the works of the first, and greatest, golf course architect — God. The world waited another 3,000 years, however, for 'the gowf' to take advantage of the natural golf courses that existed long before the game. Everything the modern architect does has been done before. The genius of the golf course architect finds expression not in creation but in re-creation.

No excuses for repeating the above which I wrote in a freelance article some months ago. It seems that another bandwagon is rolling, and the more grease on the axles the better, as far as I am concerned.

The fact is, the return to traditional golf course design is well under way. The renewed enthusiasm for links-style layouts is evident in the United States and around the world. At Lake Owing in Germany, architect Tony Ristola described his new course as "real raggedy George Thomas kind of stuff with some Alistair MacKenzie, say Cypress Point, thrown in as well." David McClean Kidd at Queenwood in England says, "To do something new, you have to do something old."

No doubt there are many examples of architects and golf courses that have never left such a traditional approach, but I hazard that they Continued on next page
Tradition returns
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have been a minority. Since golf gripped the United States – not for the first time, by the way – in the early 1960s, the dominance has been almost complete. Everything American was desirable, from loud plaid trousers in the ’70s to highly fertilized fairway lushness throughout the ’80s and ’90s. Our erstwhile colonists have ruled the golfing roost, with the odd Ryder (hic)cup viewed as mere skirmish defeats.

Yet it was an American who recognized that there was more to golf design than length, punishment and emerald brilliance of the sward. Pete Dye visited Scotland with his partner Alice (partner in life and design), and took the ‘Gospel according to St. Andrews’ back to the United States for the second time in history. A seed had been sown which would grow into today’s Renaissance.

Now the time has come to go back to the future. Suddenly the classic links, heathlands and minimalist style has become desirable once again and true golf courses are beginning to emerge. The days of heavily manicured target golf have not gone; many fine courses will continue to be built and be loved, but the balance has started to swing the other way.

To murder Churchill, “This is not the end, nor is it the beginning of the end, but it is the end of the beginning.”

The intangible qualities of the classic original courses have probably got much to do with the fact that the site that was available in the first instance – you cannot make a silk purse out of a sow’s ear, as the saying goes. But the tangibles, the qualities that can be admired with a degree of recognition, are repeatable anywhere.

This is the nub of it. The sublime absurdity of nature coupled with the sheer genius of Colt, Fowler, Abercrombie, MacKenzie et al, created the game as we know it. Natural hazards and green locations dictated how the game was played, but the advancement of equipment and the seeming abandonment of strategy as an integral element put the cart before the horse.

All of a sudden the game began to dictate design. It is irrefutable that the challenge ahead of a golfer ought to be improved upon. The fact that such qualities are once again being pronounced and acted upon by architects and developers alike brings joy to my heart. Viva ‘retro’ and adios spectator placements, but MacKenzie certainly did not design the layout. The president of the Club can confirm this information if so required.

Yours sincerely,
J. Lovell
Australia

P.S. The only course MacKenzie designed in Australia-Asia is the Royal Melbourne Golf Club’s West Course. Russell designed it’s East Course.

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JAY FINEGAN, EDITOR
GOLF COURSE NEWS
106 LAFAYETTE STREET
P.O. BOX 997
YARMOUTH, ME 04096
FAX #: 207-846-0657
JFINEGAN@GOLFCOURSENEWS.COM

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HOUSE OF CORRECTIONS

Dear Sir,
In your May 2000 issue, you wrote an article titled “Troon golf moves on Japanese Market.”

On page 37 of such issue, column 1, you state “It also operates an Alister MacKenzie-designed stand-alone course named Yarra Yarra in the Melbourne Sand Belt . . . .”

This statement is incorrect as MacKenzie never saw the site of the Yarra Yarra course. It was designed by Alex Russell in 1928.

It is true that Russell—MacKenzie’s partner in Australia from October to December 1926—forwarded his plans of the course to MacKenzie seeking advise on a few greens and bunker placements, but MacKenzie certainly did not design the layout. The president of the Club can confirm this information if so required.

Yours sincerely,
J. Lovell
Australia