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TABLE 2

Percentage of superintendents who used this equipment for pesticide applications.

Equipment	Never	Occasionally	Most of the time	Always	No response
Hand-held granular spreader	55.2	35.4	6.3	0.8	2.4
Broadcast spreader	3.9	58.3	34.6	2.4	0.8
Drop spreader	35.4	59.1	2.4	0	3.2
Backpack sprayer	42.5	40.9	12.6	12.6	3.2
Hand-held spray tank (1-3 gallons)	2.4	51.2	37.0	9.5	0
Hydraulic sprayer	62.2	12.6	16.5	3.9	4.7
Spray rig/tractor	10.2	23.6	54.3	10.2	1.6

Surveys were mailed to 773 Florida golf course superintendents in spring 2003, and 127 (16.4 percent) surveys were returned.

chinch bugs in Florida and greenbugs in the Midwest, both of which have multiple generations each year. Resistance is less likely to develop in insects with one generation a year.

Eileen Buss is an assistant professor of turfgrass entomology at the University of Florida in Gainesville. Her program focuses on the biology and management of white grubs, southern chinch bugs and mole crickets. She trains turfgrass managers on IPM. Grady Miller is an associate professor of turfgrass science at the University of Florida. He teaches turfgrass culture, golf and sports turf management and research methodology.



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Continued from page 60

liquid application equipment. Nozzles are classified by spray delivery pattern, spray angle, discharge rate and construction material. Nozzles used outside their specified rates and pressure will not work accurately. Nozzles are also prone to wear, so always calibrate, check and replace worn nozzles.

Water and/or soil pH. The alkalinity or acidity of the water in a spray tank or the soil may break down or deactivate pesticides. However, many insecticides that are pH-sensitive contain buffering agents to maintain a more neutral pH. Tank mixing, agitation and temperature increases in a spray tank can also change the pH value, so periodically check it if an immediate application isn't done. Know the pH of your water source and keep buffering agents on hand if needed.

Pest resistance. Pests may become resistant to pesticides if a population is repeatedly treated over time, such that all of the susceptible individuals die and only resistant ones remain to breed. Applicators then need to treat more often at higher rates to achieve acceptable control. The mechanism of resistance is usually genetic. The speed that resistance develops depends on how much of the pest population is exposed, how often the pesticide is applied, the persistence of the insecticide and the pest's reproductive rate. For example, resistance to organophosphate insecticides has been documented with southern

TURFGRASS TRENDS

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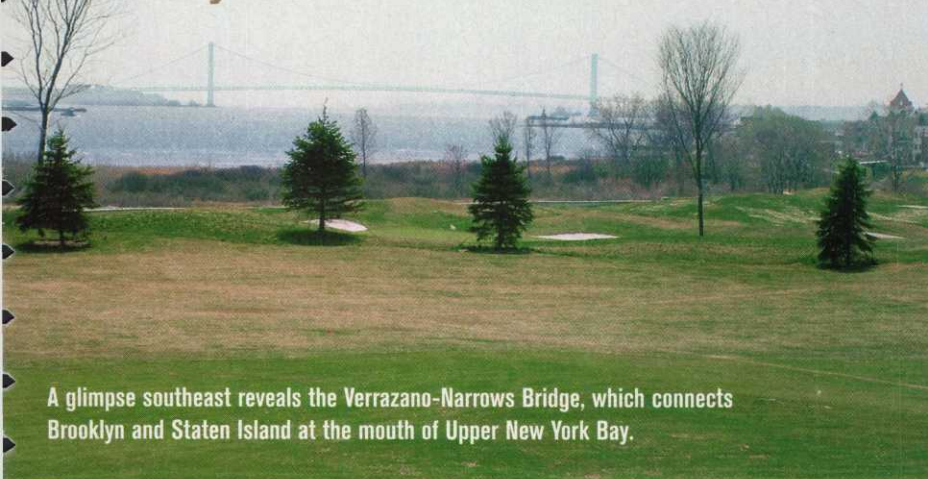
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Gotham City Golf



A glimpse southeast reveals the Verrazano-Narrows Bridge, which connects Brooklyn and Staten Island at the mouth of Upper New York Bay.

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to pursue a master's degree in plant physiology. The degree never materialized, but he accepted a job with a financial institution to oversee the construction and operation of Country Club Village, a facility in nearby Canton that had gone belly-up while being built. The birth of Joe Voss Contracting — “one of the first true maintenance companies,” Voss says

— helped pay the bills, but it contradicted its namesake's Save the Whales and Sierra Club convictions.

“When I got into the golf business, I got a lot of flak from people that knew me. I had gone to school to cure the world of pollution,” Voss says. “But when I got out of school, I was making about five grand a year, and that wasn't sitting well with me.”

The golf industry had not yet ballooned in Ohio, but there was work to be found in landscaping and ballpark construction. “Construction is fun and exciting, and there's something different every day,” Voss says, “but there are a lot of times when you don't eat.”

With an undergraduate degree in wildlife biology and an accompanying knowledge of soil types, Voss satisfied his agronomic appetite by becoming a Class A superintendent.

“According to Judy, I was 20 years ahead of my time,” Joe says. “I've been promoting conservation from the day I was hired.”

Voss spent the '80s and '90s overseeing lengthy construction jobs at notable courses such as Walden Ponds in Ohio, Ruffled Feathers and Mill Creek in Illinois, Dorado del Mar in Puerto Rico and Piedmont in Virginia. In the middle of the jobs, he earned superintendent certification while taking courses at Ohio State and Pennsylvania State universities.

Voss' work in Puerto Rico impressed course developers Greg Sherwood and *Continued on page 66*

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Gotham City Golf

Continued from page 63

Rowland Bates, both of whom are running the show at Liberty National under Fireman and his son, Dan, the project manager.

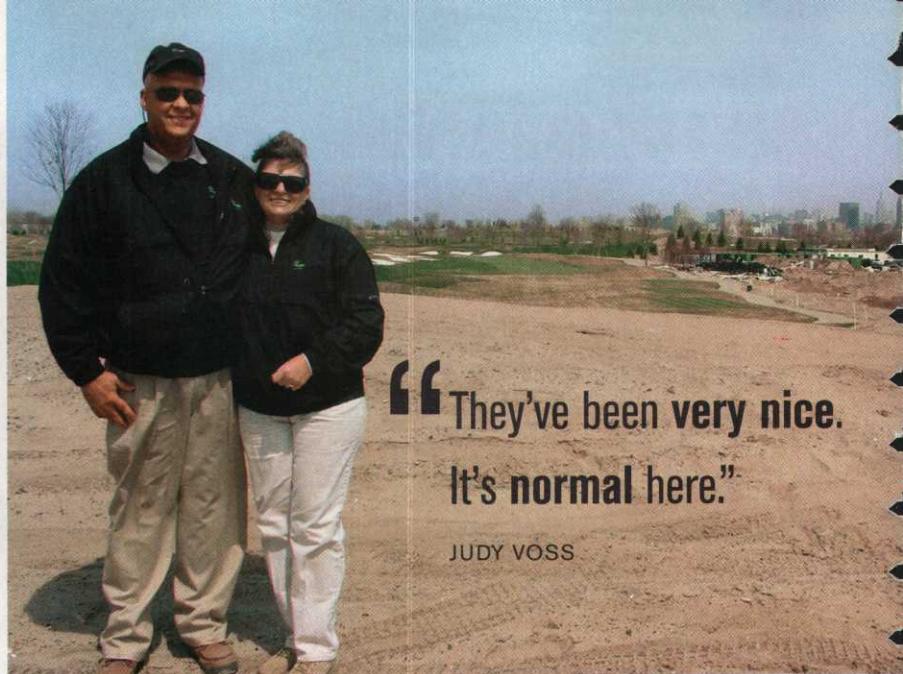
"They've been very nice," Judy says of management. "It's normal here."

Normal?

"As convoluted as this job is — things are going 100 mph in different directions, there's a lot of 15-hour days and six- to seven-day weeks — they leave me alone," Joe says. "And if I screw up, it's my fault."

With their stay at Liberty National set to end around Christmas, Joe and Judy aren't sure what and where their next job will be. "I'm pigheaded," Joe says. "This is a who-you-know business and not a what-you-know business, and I probably don't press the flesh as much as I should and PR myself."

Still, Joe's reputation precedes him. The New Year could find him and his



“They've been very nice. It's normal here.”

JUDY VOSS

wife at a job along the U.S.-Canadian border. Or maybe in Cancun. There is work to be had, Joe says, and retirement is another six to 10 years away. At that time, he'd love to bow out of the industry having just built and directed his own golf course.

In a worst-case scenario, he won't find work, and the Vosses will prematurely but

enthusiastically escape to some tropical destination, where they'll spend their days leading scuba diving and fishing expeditions. At this point in their lives, "all we have to worry about is the roof over our heads," Judy says.

Four million cubic yards of soil later, that's one construction job Joe should be able to handle in a New York minute. ■

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internet radio

In the early throes of adolescence, round about the time of junior high, I would constantly listen to the radio — 99 KSKG in Salina, Kan., to be exact — in hopes of catching the rock waves that were supposedly cool. Whether requesting songs by now-forgotten wonders of hard rock and then waiting endlessly for the silver-throated DJ to play them, or catching Kasey Casem's American Top 40 to hear the latest, my stereo's dial never moved.

If only I had known. About jazz. Classical. Reggae. College rock. Zydeco. Rockabilly. Bluegrass. R&B. Punk. My refusal to change the dial locked me into an auditory cul-de-sac, and it wasn't until years later that I figured out that the phrase, "Either you rock or you suck!" said infinitely more about the speaker than its intended victim.

Luckily, a stint as a DJ in college radio began to open my drums to a different beat. Over the years my tastes haven't necessarily become more refined, they've tended toward the eccentric (a nice word that, here, means odd, quirky and thoroughly unexplainable to anyone). But as the fiscal one-two of kids and mortgage KO'ed my music budget like a young Cassius Clay, I had to get my sonic fix elsewhere. And what better place than the Internet.

Today high school kids possess crazy music libraries on their iPods — only

THE BEAT GOES ON — ONLY THESE DAYS IT'S TCHAIKOVSKY

STREAMING FROM TOBACCO ROAD BY MARK LUCE



much of the time, said tunes weren't necessarily paid for. That's neither the route for me, nor particularly legal, so I have opted for a return to my old friend the radio. And listening online gives me darn near any station on the planet, along with just about any type of music I could possibly want. Into 1950s Appalachian music? Check out *ramradio.net*. Perhaps it's French lounge and club music that carries you away, try *datempo.com*. Most sites require either iTunes, RealPlayer or Windows Media Player, but once you figure out how to navigate those, the goods are but limited by how obscure your tastes can get. A few worth directing your browser to:

Radio Dismuke (*dismuke.org*) — My latest obsession, a station devoted to

vintage and popular music from 1925-35, arguably one of the liveliest times for American music. Listen to enough songs such as "Good Morning Glory," and you'll want spats, a dame with a bob, and a nip or three of bathtub gin.

WWOZ (*wwoz.org*) — They got hammered by Katrina, but this New Orleans gem still streams the Cajun soul of the Big Easy. With a wonderful group of dedicated DJs, WWOZ's shows always surprise as much as they entertain.

Rockabilly Radio (*rockabillyradio.com*) — It bops. And if you don't know who Wanda Jackson is, tune it here.

WCPE (*theclassicalstation.org*) — Phenomenal classical music broadcast commercial-free in the heart of North Carolina. They list all the music they play in an easy-to-use format and often have special programs.

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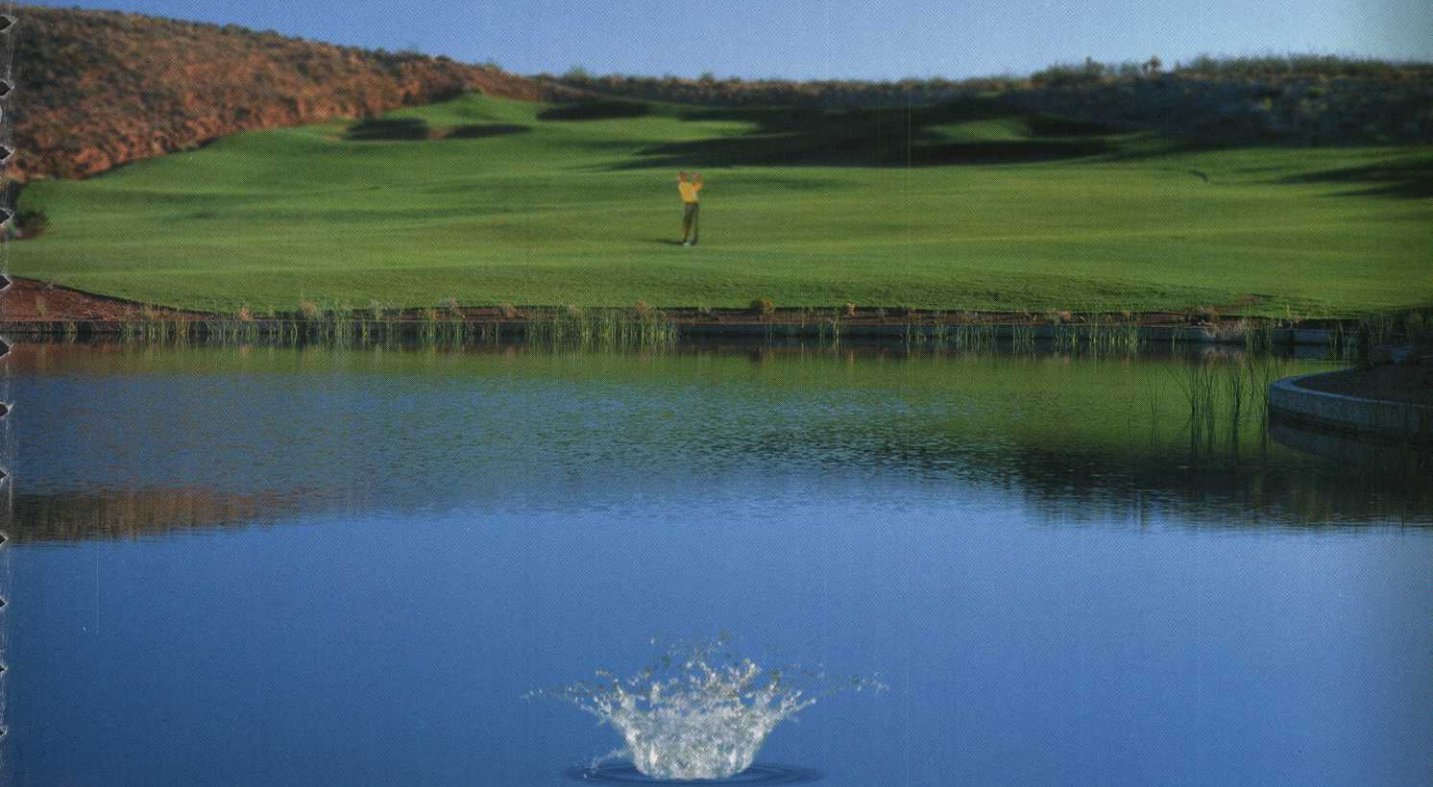
Happy listening.

Mark Luce lives in Kansas City, Mo., where he's now starting to dig Hawaiian music.

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