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Continued from page 70

bunker at a time over a two-year period.

Morris and his staff also used old aerial photographs to study the original bunkers. But they hit pay dirt when one of the members gave them old home movies of the entire course soon after it opened in 1929.

"We had movies of every hole from

tee to green," Morris says. "I felt we had good enough documentation that we could do it."

Morris and his staff began the project in the fall of 1997 and finished in the spring of 1999. According to Morris, the Crystal Downs greens committee never considered hiring a contractor. It was agreed the project was straightfor-

ward enough to complete in-house, cost-prohibitive to outsource and that no contractor would find the project's two-year labor schedule acceptable.

"Another key element that allowed us to do it in-house is that we didn't have a lot of construction to do," Morris says. "We just dug out the old bunkers and reshaped them. We didn't purchase new sod, and we didn't have much sod stapling."

The outcomes

"The reaction from the members was incredible," Austin says of his completed project. "They were excited and thrilled that [the bunkers] were back to their original form."

Austin admits the Midland Hills approach is not a reality for most golf courses. Essentially, Austin had a blank check and was instructed to hire a big-name contractor to complete the work in the most accurate, expedient fashion.

"Money was not an issue, and Hartmen is not cheap," he says. "[But] I will go out on a limb and say it's the best [remodeling firm] in the business."

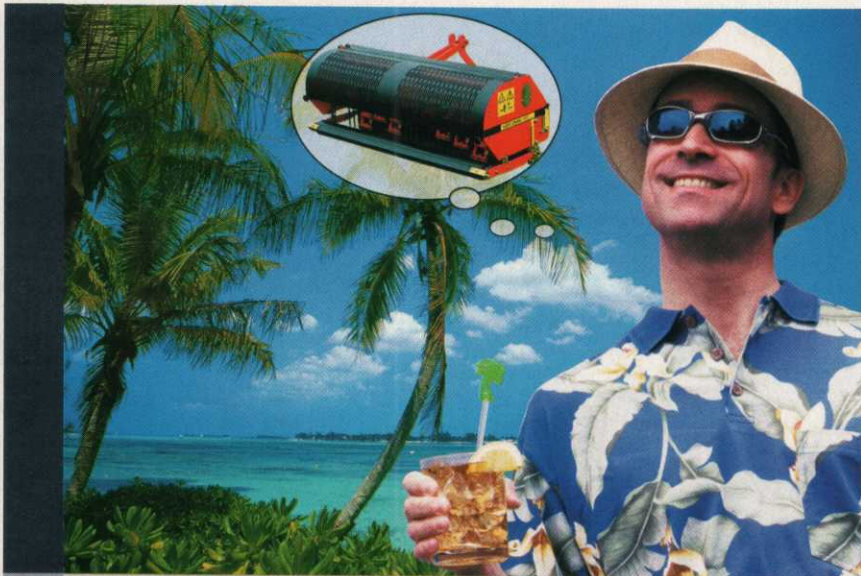
Because they elected to do the project themselves, Morris said his crew and the club's members were subject to more of the pros and cons of bunker restoration. Since he wasn't afforded any additional staff, workers had to split time between their regular duties and revamping the bunkers.

"Some of our seasonal maintenance practices were neglected for a couple years, like tree trimming, brush removal and aeration," Morris says.

However, one unforeseen benefit arose from the project, one that Morris said is hard to put a price on.

"Doing the project ourselves really empowered our staff members with the sense they had accomplished something," he says. "We have a display in our lunchroom that shows the before and after, and our crew takes a lot of pride in that." ■

Sharp is a free-lance writer from Charlotte, N.C.



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Golfdom

FEBRUARY 2002

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GOLF COURSES

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- 02 20 Semi-Private
- 03 30 Private
- 04 40 Resort
- 05 50 City/State/Municipal
- 06 55 Other Golf Courses (please specify) _____
- 07 60 Golf Course Architect
- 08 70 Golf Course Developer
- 09 90 Golf Course Builder
- 10 105 University/College
- 11 115 Distributor/Manufacturer/Consultant
- 12 100 Others Allied to the Field (please specify) _____

2. Which of the following best describes your title? (fill in ONE only)

- 13 10 Golf Course Superintendent
- 14 15 Assistant Superintendent
- 15 25 Owner/Management Company Executive
- 16 30 General Manager
- 17 35 Director of Golf
- 18 70 Green Chairman
- 19 45 Club President
- 20 75 Builder/Developer
- 21 55 Architect/Engineer
- 22 60 Research Professional
- 23 65 Other Titled Personnel (please specify) _____

3. What is your facility's annual maintenance budget?

- 24 A More than \$2 Million
- 25 B \$1,000,001-\$2 Million
- 26 C \$750,001-\$1 Million
- 27 D \$500,001-\$750,000
- 28 E \$300,001-\$500,000
- 29 F \$150,001-\$300,000
- 30 G Less than \$150,000

4. If you work for a golf course, how many holes are on your course?

- 31 A 9
- 32 B 18
- 33 C 27
- 34 D 36+
- 35 E Other (please specify) _____

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102	114	126	138	150	162	174	186	198	210	222	234	246	258	270	282	294	306
103	115	127	139	151	163	175	187	199	211	223	235	247	259	271	283	295	307
104	116	128	140	152	164	176	188	200	212	224	236	248	260	272	284	296	308
105	117	129	141	153	165	177	189	201	213	225	237	249	261	273	285	297	309
106	118	130	142	154	166	178	190	202	214	226	238	250	262	274	286	298	310
107	119	131	143	155	167	179	191	203	215	227	239	251	263	275	287	299	311
108	120	132	144	156	168	180	192	204	216	228	240	252	264	276	288	300	312
109	121	133	145	157	169	181	193	205	217	229	241	253	265	277	289	301	313
110	122	134	146	158	170	182	194	206	218	230	242	254	266	278	290	302	314
111	123	135	147	159	171	183	195	207	219	231	243	255	267	279	291	303	315
112	124	136	148	160	172	184	196	208	220	232	244	256	268	280	292	304	316



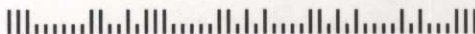
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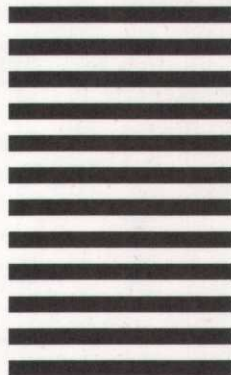




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106	118	130	142	154	166	178	190	202	214	226	238	250	262	274	286	298	310
107	119	131	143	155	167	179	191	203	215	227	239	251	263	275	287	299	311
108	120	132	144	156	168	180	192	204	216	228	240	252	264	276	288	300	312
109	121	133	145	157	169	181	193	205	217	229	241	253	265	277	289	301	313
110	122	134	146	158	170	182	194	206	218	230	242	254	266	278	290	302	314
111	123	135	147	159	171	183	195	207	219	231	243	255	267	279	291	303	315
112	124	136	148	160	172	184	196	208	220	232	244	256	268	280	292	304	316

Take the time to design a program to fight those pesky weeds in the fairways

BY FRANK H. ANDORKA JR., MANAGING EDITOR

It's almost spring, and superintendents' thoughts turn to protecting their fairways from weeds. With restrictions on chemical herbicides growing rapidly, it's important to have an effective strategy in place before making your applications.

Here are some tips on how to formulate a plan for using herbicides on your fairways:

■ **Educate yourself about which weed types affect your course annually.**

Before you decide to apply wall-to-wall herbicides, superintendents should examine the history of the weeds on their courses, says Bruce Branham, professor of plant pathology at the University of Illinois. Weeds often afflict the same patches annually, he says. Therefore, if you know where weeds have occurred in the past, chances are they will return to the same areas next year, Branham adds.

"Create a map, either in your head or on paper, about what happens every year on your course as it relates to weeds," Branham says. "Armed with that information, you can spot treat only the areas that have weed infestations instead of spraying herbicides over the whole fairway."

■ **Timing is everything.**

Jimmy Thomas, certified superintendent at the Hyatt Regency Hill CC in San Antonio, says proper timing can save superintendents from having to do postemergent treatment.

"You want to put your herbicide treatments down when the weeds are



Olde Florida GC certified superintendent Darren Davis says healthy turf prevents a weed invasion.

germinating," Thomas says. "If you miss that window, then you're going to be stuck doing postemergent treatments, which often interferes with play."

Don't assume all weeds germinate at the same time of year, Branham says. Know when your weeds germinate and apply pre-emergent herbicides as necessary, he adds.

■ **Calibrate your equipment to avoid double treatments.**

Make sure your sprayer is calibrated properly to avoid treating some areas of the fairway with more herbicide than is recommended on the label, says Dave Kopec, associate extension specialist with the University of Arizona. In addition, mark the area you plan to treat clearly so you don't put down a double dose of herbicide as the result of operator error, Kopec says.

"If you make a mistake and apply more herbicide than you want, I guarantee you'll notice," Kopec says.

"Everyone who puts down herbicides on your course should be trained so that accidents don't happen."

■ **Consider alternative ways to treat weed infestations.**

You can cut your herbicide budget if you investigate what other factors may encourage weeds on your course, says Darren Davis, certified superintendent of Olde Florida GC in Naples, Fla. Test your soil for nutrient deficiencies, and make sure you're not putting down too much water.

Instead of spending an enormous amount of money on herbicides, you might be able to change your fertility program to make your turf inhospitable to weeds, Davis says.

"It may be as simple as changing your soil chemistry by adding nutrients or altering your irrigation schedule," he adds. "It's a lot more economical to look at the whole picture to determine what might be happening before spraying herbicides on your whole course."

Thomas says what may seem obvious but is often overlooked: The most important herbicide strategy is to grow healthy turf.

"If you have good soil and a good fertility program, you won't have to worry about weeds invading your turf," Thomas says. "Your fairways will be so strong and vital that weeds won't stand a chance of overtaking them."

Golfers' concerns about superintendents spraying chemicals often conflict with their desire for weed-free turf, Davis says. When turf is at its healthiest, those two ideas balance. Then you can keep your herbicide applications to a minimum," he adds. ■

Leaders

PEOPLE ON THE MOVE

The National Golf Course Owners Association presented **Arnold Palmer** with its Award of Merit and the Course of the Year Award. It also gave the Don Rossi Award to **Jerry Hollingsworth**, long-time owner of Singing Hills Golf and Tennis Resort in El Cajon, Calif.

Clyde Luther of Burke, Va., won the USGA's 2002 Joseph C. Dey Award. The award recognizes meritorious service to the game as a volunteer. The USGA also named Judy Rankin as its 2002 Bob Jones Award winner.

The GCSAA has named four outstanding researchers and educators as 2001 winners of the GCSAA Watson Fellowship awards: **B. Todd Bunnell**, Clemson University; **Brandon Horvath**, Michigan State University; **Eric Lyons**, Pennsylvania State University; and **Mary Suplick**, Colorado State University.

NOTABLE ACHIEVERS

The following superintendents recently achieved certification: **Charles Messenger**, Basin Harbor Club, Vergennes, Vt.; **R. Dale Edmonds**, Challenge at Hideaway Farm, Graham, N.C.; **Ronald E. Kelly**, Country Club of North Carolina, Moore, N.C.; **Mark Langner**, Limestone Springs GC, Oneonta, Ala.; and **Patrick Gentile**, Patty Jewett GC, Colorado Springs, Colo.

Simplot named **Trent Bradford** as fertilizer manager for the Professional Products Division's eastern region.

Keith Cousineau was chosen as the executive director of the Canadian Golf Superintendents Association. Cousineau replaced outgoing director, Vince Gillis.

ClubCorp named **Richard Ellis** as regional vice president for daily fee golf clubs. He will continue to

serve as the managing director for the development of the Bear's Best golf courses in Las Vegas and Atlanta.

Bill Brose and **Mark Lodewyk** became principals of SmithGroup JJR, a Michigan planning, design and engineering firm.

The Irrigation Association announced the membership of its certification board: **Glenn Moore**, Pound Ridge, N.Y., chairman; **Joe Fortier**, Las Vegas, vice chairman;

and **Jim Kline**, Payson, Utah, member at large.

Doug Paige was named the new director of commercial marketing for Briggs & Stratton.

PBI/Gordon named **David Fearis** as a consultant. Fearis provides the company with golf market education, consultation and project coordination for the company's professional turf and ornamental product line.

Steve Blackshire joined Otterbine Barebo as its southeast regional sales manager.

Let us know about your people on the move. Send information/color photos to Golfdom's Frank Andorka at 7500 Old Oak Blvd., Cleveland, 44130. Fax information to 440-891-2675 or e-mail to fandorka@advanstar.com.

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- access to areas where

spray rigs can't reach;

- allows dilution ratios to be changed on the spot for curative or preventative treatments;
- allows for higher water-volume drench applications; and
- it can be used with fertilizers, insecticides, fungicides, algaecides, acids, wetting agents and disinfectants.

The proportioner requires no electricity and operates using water pressure to inject the proper amount of chemicals.

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Tuff Pressure Washers offers a line of self-contained, skid-mounted, gasoline- and diesel-powered hot-water pressure washers. The Super Skid TNT line has 12 models — eight gasoline-powered and four diesel-powered — with cleaning power ranging from 3.5 to 5.6 gallons per minute and 3,000 to 3,500 pounds per square inch of pressure.

For more information, contact 800-772-8833 or

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www.naturesafe.com or CIRCLE NO. 203

Turf book

Turf Management for Golf Courses: 2nd Edition, by James B. Beard is now available from

Sleeping Bear Press. The practical encyclopedia, written by one of the top turf agronomists in the world with the help of the USGA Green Section field staff,

covers every critical aspect — technical and practical — of golf turf management. It features more pages, photos, expanded tables and timely research.

For more information, contact 734-475 4411, www.sleepingbearpress.com or CIRCLE NO. 204

Controlled-release nitrogen

Nu-Gro Technologies announces the formulation improvement

Fuel system

EZ Dispensing Systems introduces the 5-gallon EZ Fueler. The dual-chamber fueling system mixes two-cycle oil and gasoline precisely and cleanly, according to the company. Achieving precise oil-to-gas mixtures protects engines and maximizes performance. With the EZ Fueler, setting a dial to the desired setting is all it takes to meet any manufacturer's specifications, whether in ounces, milliliters or ratios.

For more information, contact 877-224-7763 or www.ezdispensers.com

CIRCLE NO. 205

and increased production of Organiform Controlled Release Nitrogen. The formulation improvement will meet and exceed environmental requirements for heavy metals content, the company says.

The new formulation is based on ureaform technology, but uses peanut shells as an organic base component. The formulation change further reduces any concerns about metal content and provides improved economics for end-users.

Organiform 30-0-0 is a reacted nitrogen product, similar to Nu-Gro's other proprietary products. Organiform offers an intermediate release, up to 24 weeks. Based on carbon-linked polymer chains, Organiform has 55 percent water insoluble nitrogen.

For further information, contact 888-370-1874, www.nugrotech.com or CIRCLE NO. 206

Geese repeller

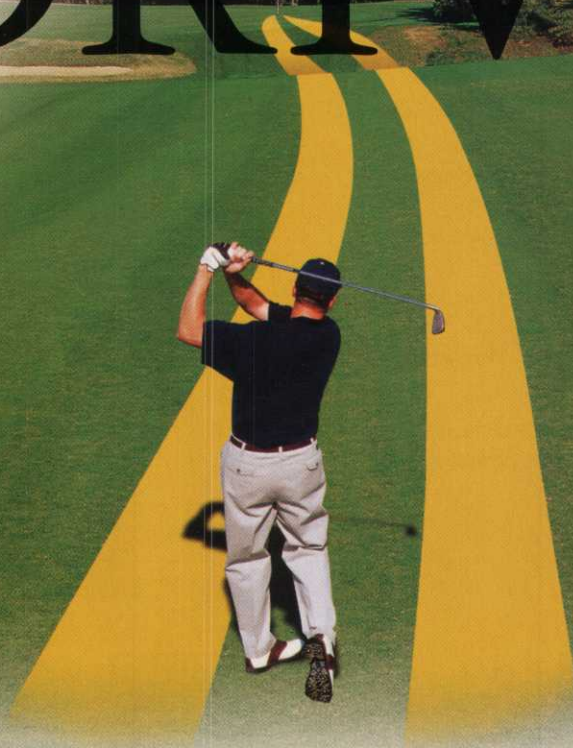
Bird X offers GooseChase, a food-grade taste aversion agent made from a bitter, smelly constituent of concord grapes (active ingredient methyl anthranilate). GooseChase renders treated food sources unpalatable and inedible. Geese can't get used to the taste and eventually leave for better food sources. Field tests have shown reduced goose activity in treated areas.

GooseChase is an alternative to lethal methods and is environmentally friendly. The material is biodegradable, and is an FDA "Generally Recognized As Safe" compound.

GooseChase is a viscous yellow liquid. One gallon of concentrate (for each acre) is diluted, sprayed onto dry grass, allowed to dry, then reapplied every 7 to 14 days or after mowing.

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Advertiser Index

A S I C	68
128 Andersons The	67
116/122 Aquatrols	71,52
131 Aquatrols	15
136 BASF	.....	(reg)62-63
Aventis/Chipco	.....	(reg)62-63
132 Becker Underwood	.....	43
113/127 Floratine Products	.....	27,69
111 Ford Motor	.....	77
133/134 Griffin LLC	.....	56
114 Griggs Bros	.....	65
106 Holland Equip Ltd	.....	6
120 Lebanon Turf Prods	.....	48
129 North American Green	.....	79
124 Nu-Gro Tech Inc	.....	61
104/107 Nutramax Lab Inc	.....	5,7
108/109 Nutramax Lab Inc	.....	9,11
110 Nutramax Lab Inc	.....	13
102 P B I Gordon	.....	CV3
118 Prosource One	.....	45
135 Redexim Charterhouse	.....	72
121 Regal Chemical	.....	53
123 Roots Inc	.....	51
125 Standard Golf Co	.....	59
101 Syngenta	.....	CV2-1
103 Tee 2 Green	.....	CV4
105 Terracare Inc	6
115/119 Toro	32-33,46-47
130 Turfco Turf Div	31
117 West Coast Turf	44

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