The biggest breakthrough in the greening of America began in 1970. That's when turfgrass specialists at Pennsylvania State University completed development of a remarkable fine-leaved perennial ryegrass with all the advantages of ryegrass. And none of the drawbacks. They called it Pennfine.

Now, just six years later, the success of their undertaking is evident. On golf courses and athletic fields. In parks and cemeteries. And on public grounds across the country.

Proven in tests. Among the nine perennial ryegrasses tested over a five-year period at University Park, Pennsylvania, Pennfine ranked finest in texture. Most resistant to disease. First in density and decumbency (low growth).

The University Park test results were only the beginning. Over 5,000 test kits with seed samples were distributed over the entire country in answer to requests from turf professionals wanting to test Pennfine. The results confirmed the University Park findings.

Most importantly, Pennfine established a new standard of mowability. Some other perennial ryegrasses, cut with the same mower, left ragged, fibrous tops that quickly turned brown. Pennfine's softer fibers cut smooth and clean.

Proven from coast to coast, from North to South. Pennfine's durable beauty has been demonstrated at prestigious sites all over America. From the lawns at an historic national landmark to the greens at a nationally-renowned golf course.

Besides possessing the ability to stand up under heavy traffic, Pennfine germinates rapidly. That makes it ideal for winter overseeding in the South. And, its non-competitiveness allows a smooth spring transition to bermudagrass.

Proven quality control under the Plant Variety Protection Act. You can be sure that all Pennfine Perennial Ryegrass meets the same high standards, because Pennfine is covered by the Plant Variety Protection Act.

That means every pound of Pennfine is certified. You are assured, by law, that it's produced exactly as intended by the original variety breeder.

Prove it to yourself. To learn more about how Pennfine is changing the face of America—and how it can work for you—write: Pennfine, P.O. Box 923, Minneapolis, MN 55440.

The best thing growing.
announcements of the first Polish Pope, the golf business made the front page in the Cleveland Press recently. Unfortunately, the news was not good: real estate developers are taking over five golf courses in the Greater Cleveland area and plan to turn most of the land into housing developments. The courses involved are Tam-A-Rac and Lost Nation in Willoughby, Homelinks in Olmsted Township, Lyndhurst GC, and Moreland Hills CC. Private citizens and several organizations are monitoring the situation to see if it appears a serious threat to open space in the area.

University of Maine entomologist Dr. John Dimond recently gave an illustrated talk on the spruce budworm to the Maine Golf Course Superintendents, pointing out that the chance of serious injury to isolated spruce and fir trees on golf courses is remote. He said that spraying might help for cosmetic purposes, but the lives of individual trees are not threatened.

Sierra Pines Golf Club, a new 9-hole daily fee course in Twain Harte, Calif., recently became the 273rd member club of the Northern California Golf Association. Charles Mangold is the course proprietor; Dick Mitchell is the golf course superintendent.

Tim Miles, who was superintendent and manager of Sugar Creek GC in Villa Park, III., resigned and took the same position at Sportsman GC when it was purchased by the Northbrook Park District.

Ray Marshall was appointed superintendent at Mission Viejo CC (Calif.) after Marvin King left there for Meadowlark GC in Huntington Beach. Tom Brown is the new superintendent at Irvine Coast CC in Huntington Beach.

The Ohio Golf Course Owners Association (OGCOA) "now has 31 member clubs, meets quarterly for education and information exchanges, and expects next year to tackle the problem of inconsistent property tax assessment practices on golf courses in different counties."

Other 1979 OGCOA officers will be Vice President Mike Payette, Oak Knoll GC, Independence; and Secretary/Treasurer Keith Bowman, Bowman's Resort GC, Wickliffe.

Among the ski touring centers listed in Ski Magazine's 5th Annual Guide to Cross Country Skiing were two dozen centers affiliated directly with one or more golf courses to provide facilities for cross country skiing. These facilities are located in two Canadian provinces and in 10 states from New Hampshire to Nevada. We know there are many more golf courses that offer cross country skiing in the winter months; if yours is one of them, why not use the reader forum card in the back of this magazine to let us know about your operation?

Three brand new Greens King II mowers like the one above will be awarded by the manufacturer, Jacobsen Turf Products, to owners of the three oldest extant Greens Kings. The giveaway, celebrating the 10th anniversary of the popular machine, will culminate in special ceremonies at the GCSAA show in Atlanta in February. Jacobsen will screen serial numbers and distributors will verify the ownership of the Greens Kings. Jacobsen Turf Products, 1721 Packard Ave., Racine, WI 53403 before January 15, 1979. Although overshadowed by the announcements of the first Polish Pope, the golf business made the front page in the Cleveland Press recently. Unfortunately, the news was not good: real estate developers are taking over five golf courses in the Greater Cleveland area and plan to turn most of the land into housing developments. The courses involved are Tam-A-Rac and Lost Nation in Willoughby, Homelinks in Olmsted Township, Lyndhurst GC, and Moreland Hills CC. Private citizens and several organizations are monitoring the situation to see if it appears a serious threat to open space in the area.

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ROSTER OF GOLF BUSINESS AND TURF ORGANIZATIONS

A

American Seed Trade Association
1030 15th St. NW, Washington, DC 20005
202/223-4080
Dr. Harold D. Loden, Executive Vice President

American Society of Golf Course Architects
221 N. LaSalle St., Chicago, IL 60601
312/372-7080
Paul Fullmer, Executive Secretary

American Sod Producers Association
Association Bldg., 1401 Cushman Dr., Washington, DC 20036
402/463-5691
Clemson University
1401 Cushman Dr.
Department of Agronomy

Aquatic Plant Management Society, Inc.
P.O. Box 2237
Fort Meyers, FL 33902

A

C

Canadian Golf Superintendents Association
696 Weston Rd., Suite 32
Toronto, Ontario, Canada M6N 3R3
416/767-2550
Carolyn Heron, Coordinator

Central Plains Turfgrass Foundation
Dr. R.N. Cunow, Secretary-Treasurer
Horticulture Dept., Waters Hall
Kansas State University
Manhattan, KS 66506
913/532-6170

Club Managers Association of America
7615 Winterberry Place
P.O. Box 34482
Washington, DC 20034
301/454-3715

Division of Plant Industry
Colorado Department of Agriculture
406 State Services Bldg., 1525 Sherman St.
Denver, CO 80203
R.I. Sullivan, Director

Cushman-Ryan
1401 Cushman Dr.
Lincoln, NE 68512
402/423-2995

Delaware Turfgrass Association
Number 4 Odessa Ave.
Wilmington, DE 19809
Harry McSloy

D

The Fertilizer Institute
1015 18th St., NW
Washington, DC 20036
202/223-4080
Dr. Harold D. Loden, Executive Vice President

Florida Turf-Grass Association
1520 Edgewater Dr., Suite E
Orlando, FL 32804
305/425-1581
Beth Eyman, Administrative Assistant

G

Georgia GCBA
George M. Kozenicky, Executive Secretary
Dept. of Plant Pathology & Plant Genetics
University of Georgia
Athens, GA 30602
404/842-2071

Georgia Course Builders Association
725 15th St. NW
Washington, DC 20005
202/638-0555
Harry J. Lenneth, Executive Director

Golf Course Superintendents Association of America
1617 St. Andrews Dr.
Lawrence, KS 66044
913/841-2240
Conrad L. Schuetz, Executive Director

I

Illinois Turfgrass Foundation
Dorothy Warren, Executive Secretary
11020 S. Roberts Rd.
Palois Hills, IL 60465
312/974-1121

A.E. Cott, Extension Horticulturist
Dept. of Horticulture

Iowa State University
Ames, IA 50011
515/294-1870

The Irrigation Association
13975 Connecticut Ave.
Silver Springs, MD 20906
301/871-1200
Tom Schiltz, Director of Education

L

Ladies Professional Golf Association
910 Third Ave.
New York, NY 10022
212/751-8181
Ray Volpe, Commissioner

The Lawn Institute
991 W. 5th St.
Marysville, OH 43040
513/642-1777
Robert W. Schery, Director

M

Maine GCBA
Vaughn Holoyek, Extension Specialist
Deering Hall
University of Maine
Orono, ME 04401
207/581-2111

Maryland Turfgrass Council
Charles Darrah
Dept. of Agronomy
University of Maryland
College Park, MD 20742
301/594-3715

Michigan Association of Public Golf Courses
15553 N. East St.
Lansing, MI 48906
517/484-7726
Cecil McKay, Jr.

Michigan State University
Dept. of Crop and Soil Sciences
East Lansing, MI 48824
Richard W. Chase, Extension Specialist

Michigan Turfgrass Foundation
Paula M. Dietz
Michigan State University
Dept. of Crop and Soil Sciences
Soil Science Building
East Lansing, MI 48824

Midwest Regional Turf Foundation
Dept. of Agronomy
Purdue University
West Lafayette, IN 47907
317/742-2891
William H. Daniel, Executive Secretary

The Musser International Turfgrass Foundation
P.O. Box AA
College Park, MD 20740
301/664-0090
Dr. Fred V. Grau

N

National Association of Public Golf Courses
c/o William E. Lyons, President
Lyons Den Golf
Coral Gables, FL 33146
216/854-9910

National Club Association
1129 20th St., NW
Washington, DC 20036
202/466-8442
Gerard Hurley, Executive Director

National Golf Foundation
200 Castiewood Dr.
North Palm Beach, FL 33408
305/844-2500
Don A. Rossi, Executive Director

National Institute on Park & Grounds Management
Box 1936
Appleton, WI 54911
414/733-2301
Tom Lubu, Conference Coordinator

National Recreation & Park Association
1601 N. Kent St.
Arlington, VA 22209
703/525-0060
John Davis, Executive Director

Nevada Recreation and Park Society
Nye Building, Room 221
Carson City, NV 89701

New Jersey Turfgrass Expo
Dr. Henry W. Indyk, General Chairman
Cook College - Rutgers University
Box 231
New Brunswick, NJ 08903
201/932-9453

New York State Turfgrass Association
210 Cartwright Blvd.
Massapequa Park, NY 11762
516/541-9034

New York Turf & Landscape Association
P.O. Box 307
Scarsondale, NY 10583

O. J. Noer Research Foundation
c/o Frank I. Shuman, Secretary-Treasurer
Green Hill Rd.
Lumberville, PA 18933

Northern California Turfgrass Council
P.O. Box NGCA
Pebble Beach, CA 93953
408/625-GOLF
Robert Hanna, Executive Director

Northern California Turfgrass Association
P.O. Box 228
Lafayette, CA 94549
415/283-6162
Chet Sarsfield, Publicity Chairman

Northwest Turfgrass Association
Dr. Roy Grass, Executive Secretary
Western Washington Research and Extension Center
Puyallup, WA 98371
206/593-8513

Palm Beach Turf Club
331 15th St., NW
Washington, DC 20036
202/638-0555
Harry J. Lenneth, Executive Director

Pennsylvania Turfgrass Association
P.O. Box 166
Reading, PA 19604
610/969-1804

Plant Health Organization
210 Cartwright Blvd.
Arlington, VA 22209
800/272-9842

Tom Schiltz, Director of Education
HOW TO USE THIS CALENDAR

This calendar contains a separate page for each month of the year. Printed in the blocks for the proper dates in each month are listings of national, regional, and state events. Golf business and turf events are printed in black; these include conferences, trade shows, field days, seminars, annual meetings, workshops, etc. Printed in color (men's in blue, women's in red) are USGA, PGA, and LPGA golf tournaments. For further details on any of the business or turf events, contact the sponsoring organization noted at the beginning of each listing. Addresses and phone numbers for all of these organizations can be found in the roster on pages 2 and 3 of this calendar. We suggest that you read through the listings now and mark the ones you will want to attend—checking or circling them with a colored pen is a good way to do it.

In the same manner in which the editor has listed national and regional events for you, you can write in local or club events as you learn about them. This way you not only keep track of them, but you also can avoid conflicts in scheduling. Blank spaces in the calendar blocks can be used to schedule appointments with equipment and supplies salesmen or with owners, greens chairmen, other course management, or employees. You will then be able to see at a glance whether you are being asked for an appointment on a day you will be out of town at a turf conference, or if two salesmen want to visit you at the same time.

At the bottom of the page for each month we have provided space for you to write in special projects and other things you plan to do during that month, but have not scheduled for a specific date. This is a good way to plan ahead and to remind yourself when to start rebuilding a tee, when to have someone trim the trees on your course, when to fertilize, when to overseed, when to paint the benches.

Published by:

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Roster of golf business and turf organizations …… pages 2-3

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Republic Steel Corp. .......................... back cover
Ryan Turf-Care Equipment ............. April
Standard Golf Co. ........................... February
Trojan Battery Co. .......................... October
Velsicol Chemical Corp. ................. May
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**January Calendar**

8-10 — Maryland Turfgrass Council, Turfgrass '79, Baltimore Hilton, Baltimore.
8-10 — University of Nebraska, Nebraska Turfgrass Conference, University of Nebraska, Lincoln.
8 — Cushman-Ryan, Cushman Equipment Service School, Lincoln, Neb.
9 — Scotts Professional Turf Institute, Golf Course Seminar, Calgary, Alberta, Canada.
10 — Scotts Professional Turf Institute, Golf Course Seminar, Vancouver, British Columbia, Canada.
11-12 — University of New Hampshire, Turf Seminar, Sheraton-Wayfarer Motor Inn, Bedford.
11-12 — Rocky Mountain GCMA, Rocky Mountain Turf Conference, Colorado State University, Fort Collins.
10-14 — Bob Hope Desert Classic, Indian Wells (Calif.), CC.
15-19 — Midwest Regional Turf Foundation, Chemicals for Turfgrass Use Seminar, Stewart Center, Purdue University, W. Lafayette, Ind.
16-17 — Michigan State University, Turfgrass Conference, Kellogg Center, MSH Campus, East Lansing.
16-17 — The Pennsylvania Turfgrass Council, Southeast Pennsylvania Turf School & Trade Show, Westover CC, Jeannette.
16 — Scotts Professional Turf Institute, Golf Course Seminar, Bethlehem, Pa.
17 — Scotts Professional Turf Institute, Golf Course Seminar, Anaheim, Calif., and Harrisburg, Pa.
18 — Scotts Professional Turf Institute, Golf Course Seminar, Santa Barbara, Calif.
22 — Ohio Nurserymen’s Association, Turf Management Specialist’s Day, ORA Short Course, Sheraton Columbus Hotel, Columbus.
23 — Scotts Professional Turf Institute, Golf Course Seminar, El Paseo, Tex.
25-28 — Andy Williams San Diego Open, Torrey Pines GC, La Jolla, Calif.
26 — Iglesias Green Section, Educational Conference, Plaza Hotel, New York, N.Y.
27 — United States Golf Association, Annual Meeting, Plaza Hotel, New York, N.Y.
27-30 — Professional Golfers’ Association of America, Merchandise Show, Walt Disney World, Lake Buena Vista, Fla.
Put more charm on your course.
Go Standard all the way in '79.
Standard golf course accessories
add that extra touch of quality to
your facilities.
The touch that tells your
golfers you really care.
And keeps them coming
back.
Nobody but nobody
manufactures and
markets a finer quality,
more complete line of
 golf course equipment.
So — from tee to
green — go Standard
all the way.

STANDARD GOLF
COMPANY, CEDAR
FALLS, IOWA 50613.
319/266-2638.
## February Calendar

<table>
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<th>Date</th>
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| 1-4  | 4-9---Golf Course Superintendents Association of America, 50th International Turfgrass Conference & Show, George Washington Center, Atlanta.  
1-4---Bing Crosby National Pro-Am, Pebble Beach (Calif.) Golf Links  
1-4---U.S.A.S. National Pro-Am, Pebble Beach (Calif.) Golf Links  
1-4---Hawaiian Open, Waialae CC, Honolulu  
1-4---Pennsylvania Turfgrass Council, Pennsylvania State University Turfgrass Conference, Sheraton Penn State Inn, State College  
1-4---Scots Professional Turf Institute, Golf Course Seminar, Palm Springs, Calif.  
1-4---Scots Professional Turf Institute, Golf Course Seminar, San Diego.  
1-4---Puerto Rico National Pro-Am, Pebble Beach (Calif.) Golf Links  |
| 5-8  | 5-8---Golf Course Builders of America, President's Dinner, Peachtree Plaza Hotel, Atlanta.  
7---Northern California Turfgrass Council, and California Cooperative Extension Service, Environmental Horticulture Conference, Goodman Hall, Jack London Square, Oakland  |
9-12---USGA Green Section, Mid-Continental Regional Turf Conference, Phoenix  |
| 13-16| 13-16---The Pennsylvania Turfgrass Council, Pennsylvania State University Turfgrass Conference, Sheraton Penn State Inn, State College  
13-16---Scots Professional Turf Institute, Golf Course Seminar, Williamsburg, Va.  |
| 16-17| 16-17---Jane Goodale Tuscan Open, Tuscan (Ariz.) National GC  
16-17---USGA Green Section, Mid-Continental Regional Turf Conference, Houston  |
| 18-21| 18-21---The Pennsylvania Turfgrass Council, Capital Area Turf School, Hershey Motor Lodge, Convention Center, Hershey  
18---USGA Green Section, Southeastern Regional Turf Conference, Columbus, Ohio  |
| 19-22| 19-22---USGA Green Section, Southeastern Regional Turf Conference, Montgomery, Ala.  
22---Scots Professional Turf Institute, Golf Course Seminar, Memphis, Tenn., and Rockford, Ala.  |
23---USGA Green Section, Mid-Continental Regional Turf Conference, Phoenix  |
27---USGA Green Section, Western Regional Turf Conference, Pebble Beach, Calif.  |
|       | 28---Scots Professional Turf Institute, Golf Course Seminar, Little Rock, Ark., and Stevens Point, Wis.  |

### This Month:

- **John Deere**
- **Standard Golf Co.**
- **E-Z-GO**
- **Velsicol Chemical Corp.**
- **Republic Steel Corp.**
- **Ryan Turf-Care Equipment**
E-Z-GO. The ultimate mark of golf car excellence.

Photographed at Boca Raton Hotel & Club, one of North America's great golf resorts.
### March Calendar

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<td>11-16</td>
<td>American Society of Golf Course Architects, Annual Meeting, Pinehurst Hotel &amp; Country Club, Pinehurst, N.C.</td>
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<td>12-14</td>
<td>Midwest Regional Turf Foundation, Midwest Turf Conference, Stewart Center, Purdue University, W. Lafayette, Ind.</td>
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<td>19-20</td>
<td>Scotts Professional Turf Institute, Golf Course Seminar, Columbus, Ohio, and Fort Wayne, Ind.</td>
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<td>21-22</td>
<td>Maine GCSA, Maine Winter Turf Conference, Portland</td>
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<td>27-28</td>
<td>Scotts Professional Turf Institute, Golf Course Seminar, Grand Rapids, Mich.</td>
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<td>29-31</td>
<td>Nevada Recreation and Park Society, Annual Conference, Aladdin Hotel, Las Vegas</td>
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**this month:**

- February 1-4: Bay Hill Citrus Classic, Bay Hill Club & Lodge, Orlando, Fla.
- February 1-4: Bent Tree Classic, Bent Tree G&CC, Sarasota, Fla.
- February 1-4: USGA Green Section, Western Regional Turf Conference, Portland, Ore.
- March 1: USGA Green Section, Mid-Continental Regional Turf Conference, Denver
- March 2-3: The Irrigation Association, Turf Irrigation Short Course, Calgary, Alberta, Canada
- March 4-8: Reinders Brooks, Inc., Reinders 4th Turf & Irrigation Conference/Equipment Show, Service Clinic, Waukesha County Exposition Center, Waukesha, Wis.
- March 6-8: Scotts Professional Turf Institute, Golf Course Seminar, Buffalo, N.Y., and Denver
- March 7-9: USGA Green Section, Mid-Atlantic Regional Turf Conference, Baltimore, Md.
- March 9-11: Sonoran Classic, Rancho Park GC, Los Angeles
- March 13-14: Midwest Regional Turf Foundation, Midwest Turf Conference, Stewart Center, Purdue University, W. Lafayette, Ind.
- March 15-17: Tournament Players Championship, Sawgrass, Jacksonville, Fla.
- March 19-20: Scotts Professional Turf Institute, Golf Course Seminar, Cincinnati
- March 21-22: Maine GCSA, Maine Winter Turf Conference, Portland
- March 25-28: Scotts Professional Turf Institute, Golf Course Seminar, Detroit
- March 29-31: Nevada Recreation and Park Society, Annual Conference, Aladdin Hotel, Las Vegas
- April 1-3: San Pasqual Heritage Classic, Harbour Town Golf Links, Hilton Head Island, S.C.
- April 1-3: Women's Kemper Open, Mesa Verde CC, Costa Mesa, Calif.
Which aeration hole is better for your greens?

The answer, if you haven't already guessed, is the Greensaire II hole. And for good reasons.

One, it's deeper. The primary objective of aeration is to help air, water and fertilizer penetrate the soil. The Greensaire II removes cores up to 3″ deep, allowing these vital nutrients to reach the root zone where they're needed.

The fact that there are 36 of these deep holes per square foot means that you also remove more soil. This not only relieves the toughest compaction problems, but it also allows you to replace more of the old, depleted soil.

The Greensaire II hole is precise. It won't affect the roll of a golf ball, so your green is back in play sooner. You can aerate most greens in 45 minutes or less.

And when you use the Greensaire II, you can also use the unique Ryan Core Processor attachment. It catches the cores, separates good soil from debris, puts the good soil back on top, and bags the debris. You aerate, top dress and collect thatch in one operation.

If you want these same fine aerating qualities, but on a smaller scale, choose the Greensaire 16. It aerates a 16″ swath instead of a 24″, uses the same selection of tines and has a convenient windrow attachment that makes core removal easy.

Of course, like all Ryan equipment, these machines are built to last. So when you aerate, don't just scratch the surface. Get the deep penetration you need with the Greensaire II, Greensaire 16 and Core Processor.

Write for your free Ryan catalog today.

Ryan Greensaire II. The turfman's timesaver.

Ryan Turf-Care Equipment

GMC-Lincoln, a Division of Outboard Marine Corporation
6673 Cushman Drive
P.O. Box 82409
Lincoln, NB 68501
### APRIL 1979 Calendar

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**Events:**

- **1-9:** USDA & Georgia Coastal Plain Station, 33rd Annual Southeastern Turfgrass Conference, Coastal Plain Station and Rural Development Center, Tifton, Ga.
- **8-9:** Greater Greensboro Open, Forest Oaks CC, Greensboro, N.C.
- **8-9:** Colgate-Dinah Shore Winners Circle, Mission Hills CC, Palm Springs, Calif.
- **12-15:** Masters, Augusta National (Ga.) Ga.
- **18-19:** Southern California Turfgrass Council, Turf & Landscape Institute, Anaheim Convention Center, Anaheim
- **19-22:** MONY Tournament of Champions, La Costa CC, Carlsbad, Calif.
- **19-22:** Tallahassee Open, Killearn G&CC, Tallahassee, Fla.
- **19-22:** Florida Lady Citrus, Rio Piner CC, Orlando
- **26-29:** First NBC New Orleans Open, Lakewood CC, New Orleans
- **27-29:** Drey Christmas Classic, Green Valley CC, Birmingham, Ala.

**This Month:**

- National Golf Foundation, Spring NGF Sponsor Membership Meeting, Coral Mar Beach Hotel, Dorado, Puerto Rico
Banvel® herbicides are broadleaf weed "specialists." Each is designed to do a special job for the conditions at your course. One of the unique features of Banvel® herbicide is its 2-way translocation; it penetrates leaves and travels down to the roots and/or it is absorbed by the roots and travels up to the leaves. This 'upstairs/downstairs' action gives excellent control of many problem weeds. Examine the whole line of Banvel® herbicides. We'll give you the highlights here, but your Velsicol Turf Distributor can provide complete information.

**BANVEL® 4S Herbicide**
With one application this potent product controls hard-to-kill weeds; yet it's safe on Bent grass. It works in warm or cool, wet or dry weather and stores without potency loss.

- Highly Effective
- Economical in Cost Per Acre
- Unique Translocation Property
- Control a Wide Variety of Problem Weeds
- Long Shelf Life
- Work in Warm or Cool, Wet or Dry

**BANVEL® + 2,4-D**
One application provides excellent control at low cost. It's pre-mixed for best results: Banvel® herbicide for tough weeds, 2,4-D for broad spectrum control. At 2-3 pints per acre it controls more than 24 common turf weeds, including dandelions, poison ivy, chickweed and clover. Stores well, too.

For Specimen Labels and more data, write:

Velsicol Chemical Corporation
341 East Ohio Street
Chicago, Illinois 60611

© 1978 Velsicol Chemical Corporation

Before using any pesticide, read the label.
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**this month:**

- **19** — American Seed Trade Association, Annual Conference, Hyatt Regency Hotel, Washington, D.C.
- **27** — Men's Amateur Public Links, Coffin Municipal GC, Indianapolis
- **28** — Women's Amateur Public Links, Coffin Municipal GC, Indianapolis

**Dates for June:***

- **2-10** — Atlanta Classic, Atlanta CC, Marietta, Ga.
- **8-10** — LPGA Championship, Jack Nicklaus Golf Center, Kings Island, Ohio
- **8-10** — Turfgrass Irrigation Conference, University of California Conference Center, Lake Arrowhead, Calif.
- **14-17** — U.S. Open, Inverness Club, Toledo, Ohio
- **21-24** — Canadian Open, Glen Abbey GC, Oakville, Ontario
**JULY**

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**this month:**

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**Event Notes:**

- June 28—July 7: Denny Thomas Memphis Classic, Colonial CC, Cardova, Tenn.
- July 12-15: Greater Milwaukee Open, Tuckaway CC, Franklin, Wis.
- July 12-15: Women's Open, Brookstown CC, Fairfield, Conn.
- July 16-31: Amateur Public Links, West Delta GC, Portland, Ore.
- August 10-20: American Sed Producers Association, Summer Convention & Field Days, Hilton Inn East, Columbus, Ohio.
- August 30—Amateur, Mass. Creek CC, Hilton Head, S.C.

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**Advertisements:**

- JOHN DEERE
- STANDARD GOLF CO.
- E-Z-GO
- VELSICOL CHEMICAL CORP.
- REPUBLIC STEEL CORP.
- RYAN TURF-CARE EQUIPMENT
## AUGUST

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### 1-31 — Junior Amateur, Mohegan GA, Hilton Head, S.C.

### 1-5 — Junior Amateur, Mohegan GA, Hilton Head, S.C.

### 6-8 — Girls' Junior, CC of Little Rock, Little Rock, Ark.

### 9-12 — Junior Amateur, Mohegan GA, Hilton Head, S.C.

### 13-16 — Women's Amateur, Memphis CC, Memphis, Tenn.

### 17-19 — Junior Amateur, Mohegan GA, Hilton Head, S.C.

### 20-22 — Women's Amateur, Memphis CC, Memphis, Tenn.

### 23-25 — Junior Amateur, Mohegan GA, Hilton Head, S.C.

### 26-28 — Women's Amateur, Memphis CC, Memphis, Tenn.

### 29-31 — Junior Amateur, Mohegan GA, Hilton Head, S.C.

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This month:

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[Logos and advertisements for various companies are present at the bottom of the page.]
OUR BEST DESIGN CHANGES EVER... INTRODUCE THIS NEW GENERATION OF TROJAN "MILEAGE MASTER" BATTERIES

★ One piece solid covers assure easier, more efficient cleaning.
★ Concealed mini-length cell connectors with less resistance increase performance.
★ Filler caps spaced closer to center give minimum interference with terminal connecting cables.
★ Trojan Batteries powered the first electric golf car 30 years ago — only by improved performance can we stay in first place.
★ We're designating this new generation by types taken from their discharge ratings in minutes at a 75 AMP rate.

HERE THEY ARE

GROUP NUMBER  TYPE  VOLTS  75 AMPS TO 5.25 VOLTS AT 80° F MINUTES  OVERALL DIMENSIONS

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OTHER SPECIAL BATTERIES AVAILABLE FOR ELECTRIC VEHICLES. * TYPE OR TERMINAL WILL VARY HEIGHT SLIGHTLY

For further information call toll free 800-423-6569, in Calif. 213-945-1471
TROJAN BATTERY COMPANY • 9440 ANN STREET • SANTA FE SPRINGS, CALIFORNIA 90670
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<td>3—Northern California Turfgrass Council, Northern California Irrigation Seminar, Goodman Hall, Jack London Square, Oakland</td>
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**OCTOBER**

**this month:**

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[Images of advertisements for various companies and equipment]
Win a Greens King!

3 lucky golf courses will win these brand new Jacobsen Greens Kings at the GCSA show.

We’re celebrating the 10th anniversary of the Greens King.

The performance and durability of this fine greens mower has given us a great deal of pride. And given our customers many years of service.

So we’re searching for the three oldest operating Greens Kings we can find.

The golf courses who have these three oldest Greens Kings will be awarded brand new ones at the GCSAA show in February at Atlanta.

If you still use an older Greens King, you’ll sure want to see if you can win a brand new one for your golf course.

How to Enter

Go look at your Greens King and write down its serial number. Send the serial number, the date of purchase, and the name of the Jacobsen distributor who sold it to you to:
Greens King Jacobsen
1721 Packard Avenue
Racine, Wisconsin 53403

All entries must be received in Racine no later than January 15, 1979.
We’ll then check our manufacturing records to determine which are the three oldest Greens Kings.

The winners will be announced at the Jacobsen booth in the GCSAA International Turf Grass Conference in Atlanta.

Schedule of Awards to the Winners:
1st winner (Feb. 6, 2:00 PM)
2nd winner (Feb. 7, 2:00 PM)
3rd winner (Feb. 8, 11:00 AM)

Three lucky golf courses will be winners. Maybe yours is one of them.

Jacobsen Division of Textron Inc.
October 1979

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This month:

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11-16—University of California, Davis, Park & Recreation Administrators Institute, Asilomar Conference Grounds, Pacific Grove, Calif.

13-14—Clemson University, 13th Annual Clemson Turfgrass Conference, Clemson House, Campus, Clemson, S.C.

19-20—Georgia GCSA, 10th Annual GCSA/J. of Georgia Turfgrass Short Course, Center for Continuing Education, University of Georgia, Athens

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JOHN DEERE
STANDARD GOLF CO.
E-Z-GO
VELSICOL CHEMICAL CORP.
REPUBLIC STEEL CORP.
RYAN TURF-CARE EQUIPMENT
FOR LITTLE TRACTORS, THEY CAN HANDLE A LOT OF BIG JOBS.

A tractor that's too big for the jobs you do is an unnecessary waste of capital and operating costs. While one that's too small ends up wasting your time.

That's why so many parks, nurseries, golf courses, landscapers, schools, and others are turning to the John Deere 850 and 950 tractors.

At 22 and 27-PTO-hp, they have all the power you need to handle just about any kind of job.

Yet they're still small enough so they don't cost a lot of money.

Look at all these big tractor features. Liquid-cooled diesel engines. 8-speed transmissions. Differential lock. 3-point hitch (Category 1). 540-rpm PTO. Adjustable wheel tread.

And you can choose from more than 20 John Deere tractor-matched implements including 4 different kinds of mowers, front loader, box scraper, planters, cultivators, plows, tiller, rear blade, posthole digger and more.

We also offer a choice of tire sizes and styles to fit your specific needs. And your John Deere dealer is a man you can count on for parts, service and good advice.

So if you're looking for a real workhorse that's just right for the jobs you do, see the 850 and 950 at your nearby John Deere dealer. Or, for a free brochure, write: John Deere, Dept. 63, Moline, Illinois 61265.

THE JOHN DEERE "LITTLE-BIG" TRACTORS.
Nothing runs like a Deere.
### December 1979 Calendar

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**4-6—Texas Turfgrass Conference, Texas A&M University, College Station**

**4-6—Ohio Turfgrass Foundation, Ohio Turfgrass Conference & Show, Cincinnati Convention & Exposition Center, Cincinnati**

**11-13—University of Illinois, 20th Annual Illinois Turfgrass Conference & Show, Ramada Inn Convention Center, Champaign**

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**this month:**

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**John Deere**

**Standard Golf Co.**

**E-Z-GO**

**Velcicol Chemical Corp.**

**Republic Steel Corp.**

**Ryan Turf-Care Equipment**
We want to join your club!

Your Tennis Club – with lockers that are as handsome as they are functional, and designed for maximum quiet.

Your Health Club – with double-tier lockers of MONDRIAN design that make the most of limited space, while enhancing the decor.

Your Golf Club – with lockers that are spacious as well as attractive, to handle a variety of paraphernalia.

Your Racquet Ball Club – with lockers that combine required ruggedness and security with modern good looks.

More choice for every need with Republic steel lockers. More styles, more decorator colors, more sizes, competitively priced.

Our lockers belong to some of the best recreational clubs around. Their qualifications tell you why.

- For basic storage and security, with good looks, our STANDARD Lockers are low in cost but high in quality.
- Want maximum ventilation? You’ll want our EXPANDED METAL Lockers.
- For ultimate decorum we present Republic’s LOW DECIBEL Lockers – twice as quiet. You have to not hear them to believe how quiet.
- And our new flush-front, low decibel MONDRIAN* Lockers with recessed handles, louverless Verti-Vent ventilation, and boldly outlined colors can change a wall of lockers into a work of art.

Tall or short, thick or thin, shallow or deep, single or multiple tier, all Republic lockers are available in your choice of 19 decorator colors – more standard colors than offered by any other manufacturer. And if you want us to match a very special color, we will.

Republic has the locker you’ll want in your club. Send the coupon for full information on our full line.

*MONDRIAN is a trademark of Republic Steel Corporation.
FOR SAFETY'S SAKE

Store pesticides properly

by Neil Ogg

Proper storage of pesticides and pesticide containers is considered by federal law to be part of the total picture of pesticide use by golf course superintendents and others.

State regulations concerning pesticide storage primarily address pesticide dealers, and the federal law dealing with pesticide storage makes recommendations only — but if a pesticide label bears specific storage statements, these must be followed. Superintendents' attention should then be directed at state pesticide storage regulations for pesticide dealers and those federal EPA recommendations for pesticide storage as guidelines for the best storage procedures.

For example, South Carolina's pesticide storage regulations call for storage in well-ventilated rooms, well away from food. Pesticides should be segregated according to type. Herbicides, insecticides, and fungicides should be separated in the storage facility to prevent cross-contamination.

All pesticides should remain in their original containers. If an original container leaks, the pesticide may be stored in a container which held the same pesticide and still bears the appropriate label. In a situation involving dry formulations of a pesticide in a damaged box or bag, the box or bag should be placed in a sound container that can be sealed. Pesticides should be stored 25 feet from food which may absorb odors from the pesticides. (Examples of absorbent food are bread, pastries, cheese.) All pesticides should be stored a minimum of 4 feet from canned foods.

Federal recommendations deal only with the moderately toxic and highly toxic pesticides; these bear the human hazard signal words WARNING and DANGER, respectively. These storage recommendations do not apply to CAUTION-labeled pesticides, which may be stored securely as one would any slightly toxic compound. Namely, storage should prevent access by persons not fully responsible for their actions (such as children) with due consideration for nonreaders. Storage sites should be located where flooding is unlikely.

Pesticides should be stored in a dry, well-ventilated separate room where fire protection is provided. A storage facility should be kept locked to prevent unauthorized entry. Identification signs should be placed on rooms, buildings, etc., to warn of their hazardous contents.

Pesticide containers should be stored with the label visible. Pesticides should be stored off the ground in an orderly way to permit ready access and inspection. A complete inventory containing the number and identity of containers in each storage place should be kept.

Containers should be checked regularly for leaks. Materials such as absorptive clays, hydrated lime, and sodium hypochlorite should be kept on hand for detoxification of spills or leaks.

Do not drink, eat, smoke, or use tobacco in areas where pesticides are stored. Wear rubber gloves while handling containers. Do not put fingers in mouth or rub eyes while working. Wash hands before eating, drinking, smoking, or using toilet and immediately after loading or transferring pesticides. Persons working with carbamates or organophosphates should have periodic physical examinations, including cholinesterase tests.
As conservation of water resources becomes more critical, the use of effluent water (treated wastewater from a sewage treatment plant) for irrigation becomes more attractive and practical — especially to golf courses, which use large quantities of water and sometimes have trouble justifying their watering practices in the face of shortages and rationing.

There are a small number of golf courses — perhaps 75 — which have been irrigating with effluent water. Three organizations — the American Society of Golf Course Architects Foundation, the National Golf Foundation, and the United States Golf Association Green Section — have been studying the subject and, with the help of GOLF BUSINESS magazine, conducted a survey in the past few months to identify these courses and compile data on their practices.

The results of the survey were to be tabulated by early December, but in mid-November these three groups and the Golf Course Superintendents Association of America took another big step towards greater knowledge and use of effluent by conducting a "state of knowledge conference on wastewater irrigation of recreational turfgrass."

Speakers at the conference in Arlington Hts., Ill., comprised government officials, golf architects, businessmen, engineers, and agronomists — all with some knowledge or experience to share with the more than 80 persons in the audience. Actually, the program also covered use of processed or composted sewage sludge on turfgrass. The consensus of the speakers and those attending was that use of these natural sewage byproducts is efficient, relatively inexpensive, and increasingly attractive — but there are particular things the user must be sure to do.

James W. Adams, vice president of The Toro Co., has been investigating and speaking on the subject of wastewater irrigation of turf for several years. Speaking at the Arlington Hts. conference, he described the successful arrangement the Innisbrook resort in Florida has with its county water treatment plant.

Two years ago, an underground pipeline was built from the sewage plant to Innisbrook at a cost of $600,000 — and the county paid for it. Why? Because otherwise they would have had to pipe their effluent 45 miles out into the Gulf of Mexico. But now Innisbrook superintendent Arlin Grant takes the wastewater to irrigate his 63 holes of golf and the grounds of the surrounding condominium development. The practice saves money for the county and the resort, while providing efficient use of a precious natural resource.

Adams reported that Innisbrook has been irrigating with effluent water for 7 years now with no complaints from golfers or residents. He made these recommendations to golf course superintendents beginning to use wastewater for irrigation:

1. Don't take unnecessary risks.
2. Be sure to get all necessary permits.
3. Establish and maintain good relations with all local agencies involved — pollution control, health department, etc.
4. Comply with all restrictions.
5. Don't hide facts from anyone. You have nothing to hide.
6. Take good care of equipment — especially filters and screens.
7. Remember that you are not alone. Other superintendents have done this before you, and many more will follow.

In addition, Adams said: Know your water needs. Know your grasses. Know exactly what kind of effluent water you will be getting, and be sure you are notified of any changes in the water.

Other speakers at the wastewater irrigation conference made these comments:

Dr. Boyd Ellis, soil chemist
Michigan State University
East Lansing, Mich.

I think there's a future for using wastewater on golf courses. I think we can use it and keep the golfer happy if we just pay attention to a few minor points:

First, we've got to establish the chemical composition of any wastewater we're going to use, and establish it before we use it.

Second, you must follow closely the chemistry of the system producing your waste. So make friends with the industrial people, even if you have to take them out to play golf occasionally. Find out what their chemical processes are and find out if they're going to make any changes.

Third, I would emphasize to contract for wastewater only if you can control how much and when you are going to apply it.

Fourth, carefully base your fertilizer program on the nutrient content of the soil and the nutrient content of the wastewater that you're going to be using. Adjust your fertility program to fit — don't leave it to chance. If you go to using wastewater, it's going to require more frequent soil testing, rather than less.

Fifth, but certainly not least, keep very close track of the sodium levels in your wastewater and your soils. That could be a potential problem.
J. D. Glass, superintendent
Los Alamos (N. Mex.) Golf Club

We're using approximately 200,000 to 300,000 gallons of water a day on our course, pumped from the plant about ½ mile away in a canyon off the number 3 fairway.

I've been at Los Alamos 7 years, and we've never put any fertilizer at all on the fairways except for effluent water. We do put a little nitrogen on the greens in the spring when we top-dress them, a very light coat in the summer, and a barely heavier one in the fall.

One thing I think we're all making a mistake on in this wastewater business — we stand here and talk to each other and we know the water is pure, but how many people in the town you come from know it's that way? Albuquerque Country Club spent $85,000 piping water from the sewage plant over to the country club, and the members refused to play the course. Nobody told them the water was pure. That seems to be the big problem — we don't take time to notify the people or tell them before we put the wastewater on the golf course.

The gentleman before me said he wished he had covered tanks. I have one 250,000 gallons by the 11th fairway, and I have one down at the plant that's 250,000 gallons. There's no water on the course — it's all in contained, closed tanks.

What I like about the use of effluent — and my members like — is that I won't spend $500 a year on fertilizers. My water bill runs a little over $4,000 a year, mostly for pumping the water up from the plant. So there is a good value to effluent water. My golfers don't know any better. The Army Corps of Engineers built the course and started putting effluent water on it in 1947.

Richard P. Nugent, golf course architect
Palatine, Ill.

Many of the fine golf courses here in Chicago have been irrigating with what is essentially a primary effluent for many years. The Skokie drainage canal runs past the Lake Bluff golf course, Onwentsia, Old Elm, Exmoor, Bob O'Link, Northmoor, Glencoe, and Skokie. Some of these courses are world-renowned for their turf, several of them have hosted major tournaments over the years, and they've been using this water for many years. Recently it's been getting worse. Many of them have found they had to have a holding pond. They would pump effluent out of this drainage ditch and at certain times of the year the phosphorus or nitrates would get too high. They would have to put the effluent in holding ponds and dilute it with city water.

They've gotten together with the people from the North Shore Sanitary District, who have built a new sewage treatment plant, and are going to put in some turf plots at the plant to see what happens to the grass under these circumstances. The golf course superintendents have taken the bull by the horns. They approached the sanitary district and are going to put in some turf plots right there and test the effluent. We were called in to help with the design of the distribution system. The people from Northmoor Country Club are going to mow and take care of the plots. Local contractors and local suppliers have given equipment and are volunteering their help in putting this together. Dr. Al Turgeon and the University of Illinois are going to monitor the test plots.

We think this is important because we're taking effluent and testing it to get results that are local. The important thing is to get the testing procedures into the hands of the ultimate users, where they are participating and it's not being done at a university. I think we will get a lot more acceptance in this manner.

This is a valid idea — you could have a grass roots testing program, and this information could be collated by the USGA Green Section and would furnish us a valuable source of information that we could use in designing golf courses throughout the country.

Why are we so interested in recycling water here in the Great Lakes area where we have ample rainfall and have winter to restock our supply of ground water? We're in a situation where our water comes from limestone formations which produce water anywhere from 300 to 400 feet deep. When we run out of this water, our next source of supply is a deeper strata, probably 1,800 to 2,200 feet deep. When you start going down that deep, that represents a substantial cost for a well.

Another thing happening here and around most other metropolitan centers is that population is increasing and people are building houses on top of this ground that used to absorb the water. They're putting in parking lots, driveways, streets, and sidewalks — and all the water that's handled by those does not go into the ground. It runs off and has to be handled by storm sewer systems. So we are very concerned that we have to do something to supplement our ground water.

The presentations of the past two days have greatly encouraged me and have convinced me that we have only just begun to use the water that's available to us.

(Information from other presentations at the wastewater irrigation conference will be published in future issues of GOLF BUSINESS.)
Want to boost business without increasing costs?

What if someone offered to send golfers — avid, affluent golfers — to your course to rent your golf cars, to buy from your pro shop, to eat in your restaurant, to drink in your bar, to bring friends along to play, and all you had to do was let each golfer play twice in one year without green fees. Would you accept the offer?

Seven hundred golf courses have accepted such an offer from The Golf Card, linking them to 30,000 golfers who each pay $49 a year for their black-and-gold plastic membership cards like the one above.

For their money, the golfers get to play twice a year for free at any or all of the 700+ member courses. For their participation, the member courses get to increase their income with no cash outlay.

An idea whose time has come

It seems amazing that no one had organized such a club for golfers before, at least not on such a large scale. But according to Ben Lampert, vice president and national sales director for the Golf Card, “The real success of The Golf Card began with a comprehensive promotional campaign by the present management in late 1975 and early 1976. The results of this effort have been to expand a mostly regional organization with less than 100 participating courses and under 1,000 members to its present world-wide level of over 700 affiliated clubs and more than 30,000 cardholders.

“The future goals of The Golf Card are to provide over 1,000 participating facilities for less than 1 percent of the golfers in North America (about 100,000 to 150,000 members).”

In addition to their two complimentary 18-hole rounds at participating golf courses, cardholders receive discounts on merchandise and services at pro shops as well as a free subscription to The Golf Traveler, a bimonthly magazine which covers member golf courses and other golf subjects. Each issue of the magazine also includes an updated directory of facilities that honor The Golf Card. GCI Travel, a division of The Golf Card, offers vacation packages to resort courses all around the world.

Probably the greatest selling point to a golfer, though, is that he or she can recover the initial membership fee merely by playing six or eight times at member courses during the year.

Participating courses must agree to “treat holders of The Golf Card with the same courtesy and privileges afforded all guests,” and in return cardholders are asked to call the course they want to play at least 24 hours in advance to arrange tee-times. Courses can, however, provide tee-times without prior notice if they are available.

Cardholders are generally affluent golfers. Half of them are retired, and 55 percent are couples. In other words, they are people who have a lot of time to play golf and play often.

There are member courses now in 47 states, Mexico, Canada, the Bahamas, the Caribbean, and the South Pacific. They range from resorts like Callaway Gardens and Pineisle Stouffer’s Resort Hotel in Georgia to semi-private, daily fee courses such as Urban Hills Country Club near Chicago. A recent “first” for The Golf Card was the signing of the Kentucky State Parks system’s 17 state-operated golf courses. The course membership rolls also include some municipal operations such as the Colorado City Golf Club and the City of King (Calif.) public golf course.

Advantages to courses

As representatives of The Golf Card, it would be quick to point out, a prime advantage of their program is that it “will increase your volume without increasing your fixed overhead.” The golf course puts up no money; all it has to provide are tee-times, most of which probably would not otherwise be filled.

A course can derive income from honoring The Golf Card because cardholders often play with people who are not cardholders and, therefore, pay regular green fees. All of these people are also likely prospects to rent golf cars; to purchase balls, equipment, or apparel from your pro shop; to eat and drink in your clubhouse. If your course is affiliated with a hotel, these golfers may stay overnight there. If your course is affiliated with a residential development, these golfers are excellent prospects to rent or buy a house or condominium.

In fact, The Missing Link newsletter, which is sent to participating golf courses, often contains letters such as this recent one from a cardholder couple:

“So far, we have played 16 courses. If it is some distance away, we stay at their motel and play a second round the next day.

“On our anniversary, we drove to South Seas Plantation on Captiva Island. We had never heard of it until we read the article in The Golf Traveler. While there, we bought an...”

The Golf Traveler contains a directory and writeups of member courses such as Seascape Golf & Racquet Club, Destin, Fla., featured in the issue shown.
Nitrogen fertilization of bentgrass greens

by Charles H. Darrah

Few turf surfaces today receive the care and attention of a golf course putting green. The overall performance of the green is highly dependent on its nutritional status, mowing, irrigation and syringing programs, and topdressing and aeration schemes. In addition verticutting, slicing, and spiking practices, as well as pesticide applications are important in maintaining the proper surface for the game of golf. However, none of these practices is more talked about than nitrogen fertility.

Nitrogen fertilization practices may be the key to the successful management of putting greens or the ax of their destruction. It is rare to find two superintendents who follow the same nitrogen program, and rightly so. Nitrogen fertilization must be tailored to the climatic conditions of the course, the bentgrass variety in use, and the soil used in the green. These conditions will vary from course to course and quite often from green to green on the same course. In addition the availability of other plant nutrients, mowing, watering, cultivation, and other management practices will influence the nitrogen needs of a putting green.

With all of these factors influencing the nitrogen requirement and interacting with the amount of nitrogen used, nitrogen fertilization of bentgrass putting greens becomes more of an art than a science. Still there are scientific principles to be kept in mind, and research data on which to base the design of a nitrogen program.

Creeping bentgrass has a nitrogen fertility requirement which varies from 0.8 to 1.4 pounds per 1,000 square feet per growing month on greens and 0.5 to 1.0 pound on higher cut turfs. (J.M. Duich and H.B. Musser, 1960) If we assume an 8-month growing period, such as in Maryland, from mid-March to mid-November, the yearly nitrogen requirement on a bentgrass green would be from 6 to 11 pounds of actual nitrogen per 1,000 square feet annually. Certainly one would not consider applying this amount in equal increments over the entire growing season. Instead, research has shown that one-half to three-quarters of the total nitrogen should be applied during the fall and early winter. (A.J. Powell, 1967: A.J. Powell, R.E. Blaser, and R.E. Schmidt, 1967)

In experiments conducted in Virginia, root growth rate of bentgrass maintained at 1/4 inch was greatest from October to December, increased only slightly from late December through February, and then increased at a moderate rate until June. This response was found under nitrogen rates ranging from 0 to 8 per 1,000 square feet over the fall and early winter. It is interesting to note that this root growth response occurred even where no nitrogen was applied. In fact, it was found that applications of nitrogen in the fall and early winter reduced the immediate root growth but enhanced the future root production in the early spring. Another important finding was that the amount applied — 1 or 2 pounds per 1,000 square feet — made little difference in spring root production, however lower root weights were measured for monthly rather than bimonthly additions of nitrogen.

These studies emphasize the importance of providing nitrogen to bentgrasses in the fall. Once temperatures have begun to decline in late September or early October, bentgrass greens should receive 1 to 1 1/2 pounds of nitrogen per 1,000 square feet. One to two additional bimonthly applications of similar amounts of nitrogen should then be applied to promote the best total root growth in the spring. Using less nitrogen in the fall and early winter will result in poor color and a lower photosynthesis rate, which results in less carbohydrates being available for foot growth. (A.J. Powell, R.E. Blaser, and R.E. Schmidt, 1967)

Nitrogen fertilization in the late spring and early summer must be tailored on an individual basis. Although it is important to maintain a green, actively growing surface on a putting green during the summer,

Charles H. Darrah is a turf specialist with the Cooperative Extension Service, University of Maryland.
Sprayer fits small pickups

Marco Industrial Sprayers makes a new line of self-contained, powered sprayers and accessories for intensive professional use. The cube shape of the hand-laid fiberglass tank creates a compact design that fits neatly in small pickups or utility trucks with room to spare. The pressure range adjusts from low for boom spraying to high for gun spraying.

Circle 201 on freee information card

Trencher has backfill blade

The Fleetline 16+4, a compact ride-on trencher recently introduced by Davis Division of J I Case, has total underground job capability because it comes equipped with a standard hydraulic backfill blade, enabling the operator to complete the entire job with just one machine. Capable of trenching to depths of 54 inches, the trencher also features four-wheel hydrostatic drive, hydraulic articulation, one-hand Mono-Stick control, and an over-center digging chain clutch to provide extra protection against severe shock loads. Single-seat operation allows operators to simply turn around for backfilling work with an unobstructed view of the job. The trenching boom is front-mounted; the rear-mounted backfill blade angles 25 degrees in either direction. A long wheelbase (49 1/4 inches) gives the trencher stability.

Circle 202 on freee information card

Machines split wood in seconds

Cornell Mfg., Inc. offers a number of machines which will make quick work of turning felled trees on the golf course into firewood for sale or for the clubhouse. Both 22- and 32-inch portable gas models are available with either utility or highway wheels. Also available are 22- and 32-inch splitters with three-point hitches for use with tractor hydraulic systems. With its 4-inch cylinder exerting 12 1/2 tons of pressure, the Cornell splitter will take almost any diameter log and split it in seconds. A scientifically designed splitting wedge results in a smooth splitting surface.

Circle 203 on freee information card

Wash golf cars and equipment

Golf cars and golf course maintenance equipment come clean quickly and easily when you use a high-pressure washer such as the portable Kleen-King manufactured by Britt-Tech Corp. Regular cleaning increases the life of golf cars and equipment, and motor degreasing makes maintenance work easier. All that's needed for the Kleen-King is an electrical outlet, a cold water tap, and a garden hose. Available models range in pressure from 550 to 1,300 pounds per square inch; all are encased in impact-resistant ABS plastic for long wear under tough use. The manufacturer also offers a line of cleaning chemicals for use with the washers: detergents, waxes, additives, sanitizers, degreasers, and more. The chemicals include special silicates that lubricate the pump and other internal parts of the washers.

Circle 204 on freee information card
Flowable fungicide

Spotrete-F is a stable flowable thiram fungicide for the control of dollar spot, brown patch, and gray and pink snow mold on turf. The fungicide particles are finely micronized and remain suspended with the help of anti-caking agent. Product of W.A. Cleary Chemical Corp. Spotrete-F is EPA approved.

Circle 205 on free information card

Undermounted rotary mower

Woods Division of Hesston makes its model 348SB undermounted rotary mower to fit the Satoh Beaver tractor. Cutting a 4-foot swath, it will mow 1 1/2 acres per hour. Three heattreated alloy spring steel blades overlap for clean cutting and are driven by a single V-belt.

Circle 206 on free information card

Ground-level markers

Flush tee markers, available from Turfgrass Products Corp., are flat and lie below the height of the grass so mowers can pass over them without removing them. And, golfers won’t trip over them. They come in red, white, blue, and yellow.

Circle 211 on free information card

Power log splitter

Northwest Industries, Inc. makes three models of its Screw-Wedge power log splitter: M28 for logs up to 18 inches in diameter, M39 for logs up to 36 inches in diameter, and a PTO model for tractors. All will handle logs 14 feet long. The machines are compact and easy to operate.

Circle 213 on free information card

Nitrogen fertilization of bentgrass greens

continued from page 17

over-stimulation of growth may lead to disease and other problems which may totally destroy the bentgrass.

Some superintendents have been made so acutely aware of the results of over-use of nitrogen during the summer that they no longer apply any summer nitrogen. As a result, color is lost, which is usually masked by the liberal use of iron, and most importantly growth and hence recuperative ability is greatly diminished. There is another group of superintendents who say that they do not apply nitrogen during the summer, but are on liberal programs of Milorganite.

In most instances there is a need for additional nitrogen through the problem growing months from May through September. Nitrogen may be supplied as very low rates (less than 1/2 pound per 1,000 square feet) of soluble fertilizers, as residuals from earlier applied synthetic organic fertilizers (UF, IBDU, SCU), or as natural organic fertilizer (Milorganite). The amount and timing will be highly dependent upon the weather, the particular soils in the green, and other management programs being used. The important consideration is to maintain the growth rate of the bentgrass so that actively growing leaf tissue is present and scars will heal in a reasonable length of time. In this way the bentgrass should provide the optimum surface for the golfer.

(From The Agronomist, Cooperative Extension Service, Agronomy Dept., University of Maryland, College Park.)
Classified

HELP WANTED

GOLF COURSE CONSTRUCTION SUPERINTENDENT for a minimum of three years. Contract required. Must be experienced in the following: Reading of plans, setting grades, layout of tees and greens and shaping of same. Experience in all phases of golf course construction and operate all types of equipment used in golf course construction. A good knowledge of grass. Must be available for Foreign Service on short notice. Salary $15,000.00 per year. Flexible hours. Send resume. Direct all replies to Missouri Division Employment Security, 335 Bailey Road, Crystal City, Missouri 63019.

GOLF COURSE CONSTRUCTION foreman for a maximum of three years. Contract required. Responsible for: Supervision of work force, installation of drains, automatic irrigation system, concrete and masonry, equipment maintenance, and able to operate heavy equipment. Have a good knowledge of grass and concrete construction. Must be available for Foreign Service on short notice. Salary $12,000.00 per year. Flexible hours. Send resume. Direct all replies to Missouri Division Employment Security, 335 Bailey Road, Crystal City, Missouri 63019.

GOLF COURSE MANAGER. Salary: Negotiable. Experienced manager for 36 hole golf operation at White Pines Golf Course. Responsibilities include: golf, Pro Shop, banquet facilities, food and beverage grill, tournaments and leagues. Responsible for hiring and training all staff, ordering Pro Shop supplies and food and beverage supplies. Please send resume to: Robert Kunkel Director, Bensenville Park District, 161 N. Church Road, Bensenville, IL 60106. (312) 766-7015.

GOLF PROFESSIONAL POSITION open for established resort community in Michigan. Must be member of PGA or LPGA. Proven experience in instruction, player development and golf programs a must. Position is year round with special package on pro-shop. Send resume to Box 182, Golf Business, Box 6951, Cleveland, Ohio 44101.

GOLF COURSE MANAGER capable of supervising all operations on an established championship 18 hole plus 9 hole par 3 municipal course including bar and restaurant. Course located in north central Pennsylvania. Includes experience and anticipated salary in initial contact. Write White Deere Golf Course, R1, Montgomery, Pennsylvania 17752.

POSITION WANTED

HUSBAND/WIFE TEAM. Desire golf shop/snack bar combination. Both are 37 with college degrees. She 5 years experience, he 15 years as professional or pro/manager. Class A PGA. Box 180, Golf Business, Box 6951, Cleveland, Ohio 44101.

GOLF PRO-GREEN SUPERINTENDENT. Class A P.G.A. member, in mid fifties, with over 35 years experience in the Golf Pro-Greenskeeping phase. Presently employed in directing a large municipal golf operation, wishes a change to a smaller club, where teaching of golf and supervision of course is needed. Available 1979 season; Box 174, Golf Business, Box 6951, Cleveland, Ohio 44101.

HEAD GOLF PROFESSIONAL — Position wanted. 25 years experience, manager, superintendent and pro. Excellent teacher, knowledge or course const. Available now. Box 177, Golf Business, Box 6951, Cleveland, Ohio 44101.

FOR SALE

VICTORY GRIPS — $8.25 doz.: Gold Crown $9.40 doz.: (4 dozen min. order) whipping-500 yds-$6.50, wood shafts-$1.75 each. Discount Golf, Box 783, Rockville, Md. 20851.

FOR SALE: 18 hole, par 3 golf course (1200 yards), club house with snack barn and game room. Large barn, large putting green, irrigation system, 2 ponds and all equipment included. Lights for evening play, plenty of parking. Located in Reinholdts, Lancaster County, Pennsylvania. Owner retiring, will consider first mortgage. Hauenstein Agency, Inc., 1433 West Main Street, Ephrata, Pa. 17522. 717 733-4158 or 215 267-6251.

OHIO — Nine-hole golf course with room for another nine holes. Approximately 120 acres. Includes maintenance and operating equipment, beautiful clubhouse with fully equipped kitchen, two dining areas, two lounges, banquet room, pro shop, lockers, showers, and many extras. A year-round operation if desired. By owner, Box 603, Lowellville, Ohio 44436.

UNIQUE, BEAUTIFUL and flawless — two year old nine hole golf course intertwining a pine-studded real estate development in northern Illinois’ prime recreational area. Completely automatic watering system; clubhouse with restaurant facilities for 250. Must be seen to be appreciated. Write Box 181, Golf Business, Box 6951, Cleveland, Ohio 44101.

18 HOLE GOLF COURSE — Northern New Jersey, 6200 yards, irrigated, pro shop, golf carts, equipment, extra income, rentals, additional land with subdivision available. Call 201 725-3947 or reply to Box 183, Golf Business, Box 6951, Cleveland, Ohio 44101.

10 HARLEY DAVIDSON gas golf cars. Super condition, always stored inside, $700 each. Eagle River Golf Course, Churubusco, Indiana. 219 693-3464.

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Golf business

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