

The seed that's changing the face of America.

Pennfine Perennial Ryegrass

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.

Clippings

Brief bits of news from in and around the golf business . . .

The recently formed **Oregon Golf Course Owners Association** "has progressed nicely," according to **Jerry Claussen**, who will be serving a second term as president in 1979. Golf director and co-owner of the Golf Club of Oregon in Albany, Claussen told GOLF BUSINESS that the 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, Wemme.

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 dates of purchase for the oldest, then distributors will verify the information and usage. If you think you own one of the three oldest Greens Kings, send your name and address, the serial number of your machine, the date of purchase, and the name of the distributor to Greens King, 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.

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, Ill., 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 Newport Beach, Calif. . . . **Steve Carlton** moved from Pomona National in Walnut, Calif., to the superintendent's job at Los Coyotes CC in Buena Park.

Paul Morgan has joined Lakeshore Equipment & Supply Co. in Elyria, Ohio, to work on product development. Formerly a certified golf course superintendent, Morgan worked in that capacity at several courses, including 15 years at Brown's Run in Middletown. A member of GCSAA and the Greater Cincinnati GCSA, he is a former president of the Midwest Regional Turfgrass Foundation, Ohio Turfgrass Foundation, and (twice) Miami Valley GCSA . . . also at LESCO, **Clifford Belden** has been named the Hudson Valley representative. Belden worked on golf course crews as a youth, and his father is superintendent at High Mountain GC in Franklin Lakes, N.J. . . . **Don Friihauf** is the new LESCO Lake Erie representative; he was assistant superintendent at The Pepper Pike (Ohio) Club and belongs to GCSAA and the Northwest Pennsylvania Chapter of GCSAA.

Clarke Staples has been named field sales manager for OMC-Lincoln's Cushman and Ryan turf care equipment lines; he has more than 10 years experience in turf equipment.

Hal G. Dickey has been appointed turf seed marketing manager for North American Plant Breeders (NAPB). Based at NAPB headquarters in Mission, Kan., Dickey will be responsible for market planning, advertising and promotion, sales, and liaison with

university experiment stations. He was previously involved in the introduction and marketing of Manhattan ryegrass and Penncross creeping bentgrass.

John Fitzgerald has been named director of the Turf Products Division of Century Toro Distributors, Inc. Based in Toledo, Ohio, the firm sells Toro, Ryan, National, Smithco, Lebanon, Milorganite, Standard Golf, and ParAide products in parts of Ohio, Michigan, Kentucky, and Indiana.

Ag Industries Mfg. Corp. has appointed **H. J. Baker & Bro., Inc.** its sales agent to the fertilizer manufacturing industry of AIM's production of sulfur coated urea.

Rodale Resources Inc., manufacturer of pond and lake water aeration systems, has appointed **John Taylor** as business manager. At the same time, **Steve Belzner** was appointed coordinator for golf course and park water quality improvement, and **Tom Easley** was named service manager. Belzner and Easley are two-thirds of a Rodale Resources water quality improvement team recently announced by Taylor. The third member of the team works with fisheries.



Taylor Belzner Easley

The Illinois Turfgrass Foundation and the Cooperative Extension Service will co-sponsor the **19th annual Illinois Turfgrass Conference** held December 12-14 at the Ramada Inn in Champaign. For details, contact the Illinois Turfgrass Foundation at 110 S. Roberts Rd., Palos Hills, IL 60465.

The Maryland Turfgrass Council will host **Turfgrass '79** at the Baltimore Hilton in Baltimore January 8-10. For details, contact Charles Darrah, Dept. of Agronomy, University of Maryland, College Park, MD 20742 (phone 301/454-3715).

The **15th annual Northern California Turfgrass & Environmental Landscape Exposition** will be conducted by the Northern California Turfgrass Council January 24-25, 1979, at the San Mateo County Fairgrounds Hall of Flowers in San Mateo. Contact: NCTC, Box 268, Lafayette, CA 94549 (phone 415/283-6162).

January 24-25 will also be the dates of the **Virginia Turfgrass Conference** at the Colonial Williamsburg Conference Center in Williamsburg. Co-sponsors are the Virginia Turfgrass Council and the Cooperative Extension Service of Virginia Polytechnic Institute and State University. Contact: J. F. Shoulders, Extension Turf Specialist, Dept. of Agronomy, Cooperative Extension Service, VPI&SU, Blacksburg, VA 24061.

For listings of the time and place of other golf business and turf events in 1979, look in the special calendar section bound into the center of this magazine.

golf business

1979 CALENDAR OF EVENTS



ROSTER OF GOLF BUSINESS AND TURF ORGANIZATIONS

A

American Seed Trade Association

Turfgrass Division
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
312/372-7090
Paul Fullmer, Executive Secretary

American Sod Producers Association

Association Bldg.
9th & Minnesota
Hastings, NE 68901
402/463-5691
Bob Garey, Executive Director

Aquatic Plant Management Society, Inc.

P.O. Box 2237
Fort Meyers, FL 33902

C

Canadian Golf Superintendents Association

698 Weston Rd., Suite 32
Toronto, Ontario, Canada M6N 3R3
416/767-2550
Carolyn Heron, Coordinator

Central Plains Turfgrass Foundation

Dr. R.N. Carrow, Secretary/Treasurer
Horticulture Dept., Waters Hall
Kansas State University
Manhattan, KS 66506
913/532-6170

Dr. Landon C. Miller

Dept. of Horticulture
Clemson University
Clemson, SC 29631
803/656-3403

Club Managers Association of America

7615 Winterberry Place
P.O. Box 34482
Washington, DC 20034
301/229-3600
Horace Duncan, Executive Director

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

D

Delaware Turfgrass Association

Number 4 Odessa Ave.
Wilmington, DE 19809
Harry McSloy

F

The Fertilizer Institute

1015 18th St., NW.
Washington, DC 20036
202/466-2700
Doug Culkin

Florida Turf-Grass Association

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

G

Georgia GCSA

George M. Kozelnicky, Executive Secretary
Dept. of Plant Pathology & Plant Genetics
University of Georgia
Athens, GA 30602
404/542-2571

Golf Course Builders of America

725 15th St., NW.
Washington, DC 20005
202/638-0555
Harry J. Lambeth, Executive Director

Golf Course Superintendents Association of America

1617 St. Andrews Dr.
Lawrence, KS 60644
913/841-2240
Conrad L. Scheetz, Executive Director

I

Illinois Turfgrass Foundation

Dorothy Warren, Executive Secretary
11020 S. Roberts Rd.
Palos 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

919 Third Ave.
New York, NY 10022
215/751-8181
Ray Volpe, Commissioner

The Lawn Institute

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

M

Maine GCSA

Vaughn Holyoke, 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
301/454-3715

Michigan Association of Public Golf Courses

15553 N. East St.
Lansing, MI 48906
517/484-7726
Cecil McKay Jr.

Cooperative Extension Service

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
317/749-2891
William H. Daniel, Executive Secretary

The Musser International Turfgrass Foundation

P.O. Box AA
College Park, MD 20740
301/864-0090
Dr. Fred V. Grau

N

National Association of Public Golf Courses

c/o William E. Lyons, President
Lyons Den Golf
Canal Fulton, OH 44614
216/854-9910

National Club Association

1129 20th St., NW.
Washington, DC 20036
202/466-8424
Gerard Hurley, Executive Director

National Golf Foundation

200 Castlewood 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
703/525-0606
John Davis, Executive Director

Nevade 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
Scarsdale, NY 10583

O. J. Noer Research Foundation

c/o Frank I. Shuman, Secretary-Treasurer
Green Hill Rd.
Lumberville, PA 18933

Northern California Golf Association

P.O. Box NCGA
Pebble Beach, CA 93953
408/625-GOLF
Robert Hanna, Executive Director

Northern California Turfgrass Council

P.O. Box 268
Lafayette, CA 94549
415/283-6162
Chet Sarsfield, Publicity Chairman

Northwest Turfgrass Association

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

O

Ohio Nurserymen's Association

6075 Cleveland Ave.
Columbus, OH 43229
614/890-5688

Dr. P. O. Larsen
Ohio State University
Dept. of Plant Pathology
1735 Neil Ave.
Columbus, OH 43210
614/422-6987

Ohio Turfgrass Foundation

David P. Martin, Executive Secretary
1827 Neil Ave.
Columbus, OH 43210
614/422-2591

Oregon Golf Course Owners Association

905 NW. Springhill Dr.
Albany, OR 97321
503/928-8338
Jerry Claussen, President

P

The Pennsylvania Turfgrass Council, Inc.

16 Tyson Bldg.
University Park, PA 16802

Professional Golfers' Association of America

804 Federal Highway
P.O. Box 12458
Lake Park, FL 33403
305/848-3481
Mark Cox, Executive Director

PGA Tour

5101 River Rd.
Washington, DC 20016
301/986-1550
Deane R. Beman, Commissioner

Professional Grounds Management Society

19 Hawthorne Ave.
Pikesville, MD 21208
301/653-2742
Allan Shulder, Executive Director

R

Reinders Brothers, Inc.

13400 Watertown Plank Rd.
Elm Grove, WI 53122
414/786-3300
Ed Devinger, Sales Manager

Rio Bravo Turf & Golf Course Superintendents Association

Dr. Garald L. Horst, President
9324 McFall
El Paso, TX 79925
915/859-3385

Rocky Mountain GCSA

2222 S. Albion St.
Denver, CO 80222
303/758-6707
Dean Faulkner, Executive Secretary

S

O. M. Scott & Sons

Professional Turf Institute
Marysville, OH 43040
513/644-0011

Southern California Turfgrass Council

1000 Concha St.
Altadena, CA 91001
213/798-1715
Ed McNeill, Executive Secretary

Southern Turfgrass Association

P.O. Box CP
Mississippi State University
State College, MS 39762
601/325-3138
Dr. Euel Coats, Executive Secretary

Southwest Turfgrass Association

New Mexico State University
Agronomy Dept., Box 3-Q
Las Cruces, NM 88003
505/646-3138
Arden Baltensperger

T

Texas Turfgrass Conference

Richard L. Duble
Soil & Crop Sciences Dept.
Texas A&M University
College Station, TX 77843
713/845-4826

Turfgrass Sprinkler Irrigation Conference

J. L. Meyer, Extension Irrigation & Soils Specialist
University of California
Dept. of Soil and Environmental Sciences
Riverside, CA 92521
714/787-5101

U

Dr. Glen W. Burton, Research Geneticist
USDA and Georgia Coastal Plain Experiment Station
Tifton, GA 31794
912/386-3353

United States Golf Association

Golf House, Liberty Corner Rd.
Far Hills, NJ 07931
201/234-2300
P. J. Boatwright Jr., Executive Director

United States Golf Association Green Section

P.O. Box 1237
Highland Park, NJ 08904
201/572-0456
Alexander M. Radko, National Director

University Extension

University of California, Davis
Room 4445, Chemistry Annex
Davis, CA 95616
916/752-3092
Cheryl Lulofs, Program Assistant

Horticulture Field Lab

University of Illinois
Urbana, IL 61801
217/333-7847
Dr. John Street, Turfgrass Extension Specialist

Dept. of Plant and Soil Science

University of Massachusetts
Stockbridge Hall
Amherst, MA 01003
413/545-2353
Dr. Joseph Troll

Dept. of Horticulture

University of Nebraska
105 Plant Industry Bldg.
Lincoln, NE 68583
402/472-2550
Dr. R. C. Shearman, Turfgrass Specialist

Plant Science Dept.

University of New Hampshire
Nesmith Hall
Durham, NH 03824
Dr. George Estes

Plant and Soil Science Dept.

University of Rhode Island
Kingston, RI 02881
Professor C. R. Skogley

V

Virginia Polytechnic Institute and State University

Cooperative Extension Service
Dept. of Agronomy
Blacksburg, VA 24061
J. F. Shoulders, Extension Turf Specialist

W

Wisconsin GCSA

Milwaukee Sewerage Commission
8500 South Fifth Ave.
Oak Creek, WI 53154
414/764-2300
Bob Welch

NATIONAL GOLF FOUNDATION REGIONAL DIRECTORS

Lorraine Abbott
1017 North Euclid Ave.
Oak Park, IL 60302
312/386-4960

David B. Hueber
6707 Clover Ct.
Carlsbad, CA 92008

Joe Much
938 Alberta Ave., East
Monmouth, OR 97361
503/838-0136

Steve V. Mrak
5814 Cary Grant Dr.
San Antonio, TX 78240
512/681-3247

Larry Smith
2413 Timbercrest Cir., West
Clearwater, FL 33515
813/733-5714

Syl Wagasky
527 Williamsburg Lane
Odenton, MD 21113
301/674-6098

USGA GREEN SECTION REGIONAL OFFICES

Northeastern Region

Stanley J. Zontek, Director
William S. Brewer, Jr., Agronomist
James T. Snow, Agronomist
P.O. Box 1237
Highland Park, NJ 08904
201/572-0440

Mid-Atlantic Region

William G. Buchanan, Director
7124 Forest Hill Ave., Suite M
Richmond, VA 23225
804/272-5553

Southeastern Region

James B. Moncrief, Director
P.O. Box 4213, Campus Station
Athens, GA 30602
404/548-2741

North-Central Region

Carl H. Schwartzkopf, Director
P.O. Box 592
Crystal Lake, IL 60014
815/459-3731

Mid-Continent Region

Dr. Douglas T. Hawes, Director
17360 Coit Rd.
Dallas, TX 75252
214/783-7125

Western Region

Donald D. Hoos, Director
222 Fashion Lane, Suite 107
Tustin, CA 92680
714/544-4411







HOW TO USE THIS CALENDAR

September 1979							November 1979						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
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OCTOBER

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this month:

- 1 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.

- 2 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.

- 3

- 4 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.

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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

EDITORIAL:

DAVID J. SLAYBAUGH
Editor

RAYMOND L. GIBSON
Graphics director

KRIS FAY
Graphics assistant

FOUNDERS & CONSULTANTS:

HERB GRAFFIS
JOE GRAFFIS

BUSINESS:

HUGH CHRONISTER
Publisher

RICHARD J.W. FOSTER
General manager

DAVID J. SLAYBAUGH
Executive editor

TERESA HUTSENPILLER
Circulation

CHRIS SIMKO
Advertising production

JANUARY

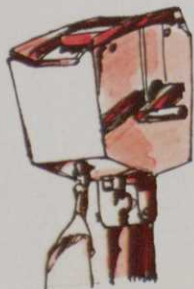
December 1978							February 1979						
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31													

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8 8-10—Maryland Turfgrass Council, Turfgrass '79, Baltimore Hilton, Baltimore 8-10—University of Nebraska, Nebraska Turfgrass Conference, Nebraska Center, University of Nebraska, Lincoln 8—Cushman-Ryan, Cushman Equipment Service School, Lincoln, Neb.	9 9—Scotts Professional Turf Institute, Golf Course Seminar, Calgary, Alberta, Canada	10 10—Scotts Professional Turf Institute, Golf Course Seminar, Vancouver, British Columbia, Canada	11 11-12—University of New Hampshire, Turf Seminar, Sheraton-Wayfarer Motor Inn, Bedford 11-12—Rocky Mountain GCSA, Rocky Mountain Turf Conference, Colorado State University, Fort Collins 10-14—Bob Hope Desert Classic, Indian Wells (Calif.) CC	12	13
14	15 15-19—Midwest Regional Turf Foundation, Chemicals for Turfgrass Use Seminar, Stewart Center, Purdue University, W. Lafayette, Ind.	16 16-17—Michigan State University, Turfgrass Conference, Kellogg Center, MSU Campus, East Lansing 16-17—The Pennsylvania Turfgrass Council, Southeast Pennsylvania Turf School & Trade Show, Westover CC, Jeffersonville 16—Scotts Professional Turf Institute, Golf Course Seminar, Bethlehem, Pa.	17 17—Scotts Professional Turf Institute, Golf Course Seminar, Anaheim, Calif., and Harrisburg, Pa.	18 18—Scotts Professional Turf Institute, Golf Course Seminar, Mt. Laurel, N.J., and Los Angeles	19 19—Scotts Professional Turf Institute, Golf Course Seminar, Santa Barbara, Calif.	20 18-21—Phoenix Open, Phoenix (Ariz.) CC
21 21-22—Oregon Golf Course Owners Association, 2nd Annual Meeting, Sutherland Knolls GC, Sutherland, Ore. 22—Ohio Nurserymen's Association, Turf Management Specialist's Day, ONA Short Course, Sheraton Columbus Hotel, Columbus	22	23 23—The Pennsylvania Turfgrass Council, Western Pennsylvania Turf & Grounds Maintenance School & Trade Show, Howard Johnson Motor Lodge, Monroeville 23—Scotts Professional Turf Institute, Golf Course Seminar, El Paso, Tex.	24 24-25—Northern California Turfgrass Council, Northern California Turfgrass & Environmental Landscape Exposition, San Mateo County Fairgrounds, San Mateo 24-25—Virginia Polytechnic Institute and State University, Virginia Turfgrass Conference, Colonial Williamsburg Conference Center, Williamsburg 24—Scotts Professional Turf Institute, Golf Course Seminar, Tucson, Ariz.	25 25-28—Andy Williams San Diego Open, Torrey Pines GC, La Jolla, Calif.	26 26—USGA Green Section, Educational Conference, Plaza Hotel, New York, N.Y.	27 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.
28 29-Feb. 4—Colgate Triple Crown, Mission Hills CC, Palm Springs, Calif.	29	30 30—Scotts Professional Turf Institute, Golf Course Seminar, Myrtle Beach, S.C.	31 31—Scotts Professional Turf Institute, Golf Course Seminar, Columbia, S.C. 31—New York Turf & Landscape Association, Professional Turf & Landscape Conference, Tappan Zee Inn, Nyack			

this month:



JOHN DEERE



STANDARD GOLF CO.



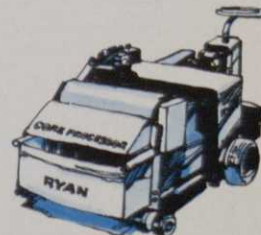
E-Z-GO



VELISOL CHEMICAL CORP.



REPUBLIC STEEL CORP.



RYAN TURF-CARE EQUIPMENT

STANDARD '79 **GOLF** *Pro-Line*



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

January							1979						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
	1	2	3	4	5	6					1	2	3
7	8	9	10	11	12	13	4	5	6	7	8	9	10
14	15	16	17	18	19	20	11	12	13	14	15	16	17
21	22	23	24	25	26	27	18	19	20	21	22	23	24
28	29	30	31				25	26	27	28	29	30	31

January							1979						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
	1	2	3	4	5	6					1	2	3
7	8	9	10	11	12	13	4	5	6	7	8	9	10
14	15	16	17	18	19	20	11	12	13	14	15	16	17
21	22	23	24	25	26	27	18	19	20	21	22	23	24
28	29	30	31				25	26	27	28	29	30	31

S	M	T	W	T	F	S
				1—Scotts Professional Turf Institute, Golf Course Seminar, Palm Springs, Calif.	2—Scotts Professional Turf Institute, Golf Course Seminar, San Diego	
				1-4—Bing Crosby National Pro-Am, Pebble Beach (Calif.) Golf Links		
				Jan. 29-Feb. 4—Colgate Triple Crown, Mission Hills CC, Palm Springs, Calif.		
				1	2	3
4-9—Golf Course Superintendents Association of America, 50th International Turfgrass Conference & Show, Georgia World Congress Center, Atlanta						
4-6—The Fertilizer Institute, Annual Meeting, Hyatt Regency, Chicago.			7—Golf Course Builders of America, President's Dinner, Peachtree Plaza Hotel, Atlanta	8—Musser International Turfgrass Foundation, Board of Directors Annual Meeting, Atlanta		
			7—Northern California Turfgrass Council, and California Cooperative Extension Service, Environmental Horticulture Conference, Goodman Hall, Jack London Square, Oakland		8-11—Hawaiian Open, Waiialae CC, Honolulu	
4	5	6	7	8	9	10
			13-16—The Pennsylvania Turfgrass Council, Pennsylvania State University Turfgrass Conference, Sheraton Penn State Inn, State College		15-18—Joe Garagiola Tucson Open, Tucson (Ariz.) National GC	
				14—Scotts Professional Turf Institute, Golf Course Seminar, Williamsburg, Va.	15-18—Elizabeth Arden Classic, CC Aventura, Miami	
				14—Scotts Professional Turf Institute, Golf Course Seminar, Lynchburg, Va.		
11	12	13	14	15	16	17
18-21—The Irrigation Association, Technical Conference, St. Francis Hotel, San Francisco		20-21—The Pennsylvania Turfgrass Council, Capital Area Turf School, Hershey Motor Lodge, Convention Center, Hershey			22-25—Glen Campbell Los Angeles Open, Riviera CC, Pacific Palisades, Calif.	
	19-21—Cushman-Ryan, Ryan Turf Equipment Service School, Lincoln, Neb.				22—Scotts Professional Turf Institute, Golf Course Seminar, Maumee, Ohio	23-25—Orange Blossom Classic, Pasadena GC, St. Petersburg, Fla.
	19-21—Club Managers Association of America, 52nd Annual Conference & 2nd Annual Exposition, Atlanta Hilton Hotel, Atlanta					23—USGA Green Section, Mid-Continent Regional Turf Conference, Houston
	19—USGA Green Section, Southeastern Region Turf Conference, Columbia, S.C.	20—Scotts Professional Turf Institute, Golf Course Seminar, Kent, Ohio	21—USGA Green Section, Southeastern Regional Turf Conference, Birmingham, Ala.			
18	19	20	21	22	23	24
			21—Scotts Professional Turf Institute, Golf Course Seminar, Strongsville, Ohio			
25-27—American Sod Producers Association, Midwinter Conference, Doubletree Inn-Mall, Scottsdale, Ariz.		27-Mar 1—University of Massachusetts, Annual Fine Turf Conference & Industrial Show, Springfield Civic Center, Springfield, Mass.				
	26-28—Iowa State University, Iowa Turfgrass Conference & Trade Show, Hilton Inn, Des Moines					
	26—USGA Green Section, Mid-Continent Regional Turf Conference, Phoenix	27-28—The Pennsylvania Turfgrass Council, Northeastern Pennsylvania Turf School, Master Host Motel, Wilkes-Barre				
		27—Scotts Professional Turf Institute, Golf Course Seminar, Memphis, Tenn., and Rockford, Ala.	28—USGA Green Section, Western Regional Turf Conference, Pebble Beach, Calif.			
25	26	27	28			
			28—Scotts Professional Turf Institute, Golf Course Seminar, Little Rock, Ark., and Stevens Point, Wis.			

this month:

 <p>JOHN DEERE</p>	 <p>STANDARD GOLF CO.</p>	 <p>E-Z-GO</p>	 <p>VELSICOL CHEMICAL CORP.</p>	 <p>REPUBLIC STEEL CORP.</p>	 <p>RYAN TURF-CARE EQUIPMENT</p>
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MARCH

February							1979							April						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
					1	2	3							1	2	3	4	5	6	7
4	5	6	7	8	9	10	11	12	13	14	15	16	17	8	9	10	11	12	13	14
18	19	20	21	22	23	24	25	26	27	28	22	23	24	25	26	27	28			
25	26	27	28				29	30	29	30										

S	M	T	W	T	F	S
					1-4—Bay Hill Citrus Classic, Bay Hill Club & Lodge, Orlando, Fla. 1-4—Bent Tree Classic, Bent Tree G&RC, Sarasota, Fla.	
		Feb. 27-Mar. 1—University of Massachusetts, Annual Fine Turf Conference & Industrial Show, Springfield Civic Center, Springfield, Mass.			2—USGA Green Section, Western Regional Turf Conference, Portland, Ore.	
				1	2	3
4-7—Canadian Golf Superintendents Association, 30th Canadian Turfgrass Show, Halifax Metro Centre, Halifax, Nova Scotia	5—USGA Green Section, Mid-Continent Regional Turf Conference, Denver	6-8—The Irrigation Association, Turf Irrigation Short Course, Calgary, Alberta, Canada 6-8—Reinders Brothers, Inc., Reinders 4th Turf & Irrigation Conference/Equipment Show/Service Clinic, Waukesha County Exposition Center, Waukesha, Wis. 6—Scotts Professional Turf Institute, Golf Course Seminar, Buffalo, N.Y., and Denver	7—USGA Green Section, Mid-Atlantic Regional Turf Conference, Baltimore, Md. 7—Scotts Professional Turf Institute, Golf Course Seminar, Rochester, N.Y., and Salt Lake City	8—Scotts Professional Turf Institute, Golf Course Seminar, Albany, N.Y.	8-11—Jackie Gleason Inverrary Classic, Inverrary G&CC, Lauderhill, Fla. 8-11—Sunstar Classic, Rancho Park GC, Los Angeles	9—USGA Green Section, Mid-Atlantic Regional Turf Conference, Roanoke, Va.
4	5	6	7	8	9	10
11-16—American Society of Golf Course Architects, Annual Meeting, Pinehurst Hotel & Country Club, Pinehurst, N.C.	12-14—Midwest Regional Turf Foundation, Midwest Turf Conference, Stewart Center, Purdue University, W. Lafayette, Ind.				15-18—Doral-Eastern Open, Doral CC, Blue Course, Miami 15-18—Honda Civic Classic, Rancho Bernardo Inn, San Diego	
11	12	13	14	15	16	17
19—Scotts Professional Turf Institute, Golf Course Seminar, Columbus, Ohio, and Fort Wayne, Ind.	20—USGA Green Section, North-Central Regional Turf Conference, Indianapolis 20—The Pennsylvania Turfgrass Council, North-central Pennsylvania Turf School, Smethport CC, Smethport	21—Scotts Professional Turf Institute, Golf Course Seminar, Cincinnati 21-22—Maine GCSA, Maine Winter Turf Conference, Portland	22—USGA Green Section, North-Central Regional Turf Conference, Cleveland		22-25—Tournament Players Championship, Sawgrass, Jacksonville, Fla. 22-25—Sahara National Pro-Am, Sahara CC/Las Vegas CC, Las Vegas, Nev.	
18	19	20	21	22	23	24
		27—Scotts Professional Turf Institute, Golf Course Seminar, Grand Rapids, Mich.	28—Scotts Professional Turf Institute, Golf Course Seminar, Detroit	29-31—Nevada Recreation and Park Society, Annual Conference, Aladdin Hotel, Las Vegas 29-April 1—Sea Pines Heritage Classic, Harbour Town Golf Links, Hilton Head Island, S.C. 29-Apr. 1—Women's Kemper Open, Mesa Verde CC, Costa Mesa, Calif.		
25	26	27	28	29	30	31

this month:



JOHN DEERE



STANDARD GOLF CO.



E-Z-GO



VELSICOL CHEMICAL CORP.



REPUBLIC STEEL CORP.



RYAN TURF-CARE EQUIPMENT

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.

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P.O. Box 82409
Lincoln, NB 68501

APRIL

March							1979							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	
					1	2	3			1	2	3	4	5
4	5	6	7	8	9	10	6	7	8	9	10	11	12	
11	12	13	14	15	16	17	13	14	15	16	17	18	19	
18	19	20	21	22	23	24	20	21	22	23	24	25	26	
25	26	27	28	29	30	31	27	28	29	30	31			

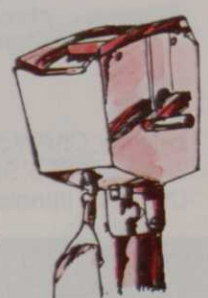
May							1979						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
									1	2	3	4	5
							6	7	8	9	10	11	12
							13	14	15	16	17	18	19
							20	21	22	23	24	25	26
							27	28	29	30	31		

S	M	T	W	T	F	S
					5-8—Greater Greensboro Open, Forest Oaks CC, Greensboro, N.C. 5-8—Colgate-Dinah Shore Winners Circle, Mission Hills CC, Palm Springs, Calif.	
1	2	3	4	5	6	7
	9-10—USDA & Georgia Coastal Plain Station, 33rd Annual Southeastern Turfgrass Conference, Coastal Plain Station and Rural Development Center, Tifton, Ga.				12-15—Masters, Augusta National (Ga.) GC	
8	9	10	11	12	13	14
			18-19—Southern California Turfgrass Council, Turf & Landscape Institute, Anaheim Convention Center, Anaheim		19-22—MONEY Tournament of Champions, La Costa CC, Carlsbad, Calif. 19-22—Tallahassee Open, Killearn G&CC, Tallahassee, Fla. 19-22—Florida Lady Citrus, Rio Pinar CC, Orlando	
15	16	17	18	19	20	21
					26-29—First NBC New Orleans Open, Lakewood CC, New Orleans 27-29—Otey Chrisman Classic, Green Valley CC, Birmingham, Ala.	
22	23	24	25	26	27	28
	29-May 2—National Golf Foundation, Spring NGF Sponsor Membership Meeting, Cerromar Beach Hotel, Dorado, Puerto Rico					
29	30	31				

this month:



JOHN DEERE



STANDARD GOLF CO.



E-Z-GO



VELICOL CHEMICAL CORP.



REPUBLIC STEEL CORP.



RYAN TURF-CARE EQUIPMENT

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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.

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Velsicol Chemical Corporation
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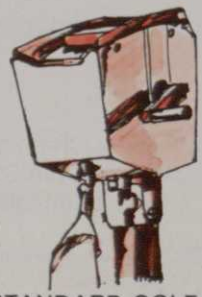
April 1979							June 1979						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	1	2	3	4	5	6	7
8	9	10	11	12	13	14	8	9	10	11	12	13	14
15	16	17	18	19	20	21	15	16	17	18	19	20	21
22	23	24	25	26	27	28	22	23	24	25	26	27	28
29	30						29	30					

S	M	T	W	T	F	S
		April 29-May 2—National Golf Foundation, Spring NGF Sponsor Membership Meeting, Cerromar Beach Hotel, Dorado, Puerto Rico			3-6—Houston Open, The Woodlands (Tex.) CC 3-6—Women's International, Moss Creek Plantation, Hilton Head, S.C.	
		1	2	3	4	5
					10-13—Byron Nelson Golf Classic, Preston Trail GC, Dallas 11-13—Lady Michelob, Brookfield West G&CC, Roswell, Ga.	
6	7	8	9	10	11	12
		15-17—Ohio State University and ChemLawn Corp., A Symposium of Turfgrass Diseases 1979 University Holiday Inn, Columbus, Ohio			17-20—Colonial National Invitation, Colonial CC, Fort Worth, Tex. 17-20—Coca-Cola Classic, Upper Montclair CC, Clifton, N.J.	
13	14	15	16	17	18	19
					24-27—Memorial Tournament, Muirfield Village GC, Dublin, Ohio 24-27—Corning Classic, Corning CC, Corning, N.Y.	
20	21	22	23	24	25	26
			30-31—Walker Cup, The Honourable Course of Edinburgh Golfers, Gullane, Scotland		31-June 3—Kemper Open, Quail Hollow CC, Charlotte, N.C. 31-June 3—Golden Lights Championship, Wykagyl CC, New Rochelle, N.Y.	
27	28	29	30	31		

this month:



JOHN DEERE



STANDARD GOLF CO.



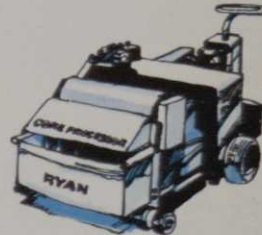
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VELSICOL CHEMICAL CORP.



REPUBLIC STEEL CORP.



RYAN TURF-CARE EQUIPMENT

JUNE

May 1979						
S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
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20	21	22	23	24	25	26
27	28	29	30	31		

July 1979						
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8	9	10	11	12	13	14
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22	23	24	25	26	27	28
29	30	31				

S	M	T	W	T	F	S
					1	2
					3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

May 31-June 3—Kemper Open, Quail Hollow CC, Charlotte, N.C.

7-10—Atlanta Golf Classic, Atlanta CC, Marietta, Ga.

7-10—LPGA Championship, Jack Nicklaus Golf Center, Kings Island, Ohio

8-10—Turfgrass Sprinkler Irrigation Conference, University of California Conference Center, Lake Arrowhead, Calif.

10-13—The Fertilizer Institute, Marketing Conference, The Greenbriar, White Sulphur Springs, W.Va.

14-17—U.S. Open, Inverness Club, Toledo, Ohio

21-24—Canadian Open, Glen Abbey GC, Oakville, Ontario

24-28—American Seed Trade Association, Annual Conference, Hyatt Regency Hotel, Washington, D.C.

27-July 1—Women's Amateur Public Links, Coffin Municipal GC, Indianapolis

28-July 1—Danny Thomas Memphis Classic, Colonial CC, Cordova, Tenn.

this month:



JOHN DEERE



STANDARD GOLF CO.



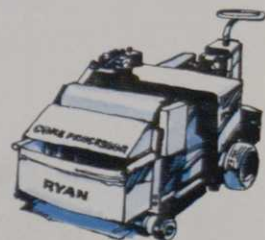
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VELSICOL CHEMICAL CORP.



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RYAN TURF-CARE EQUIPMENT

JULY

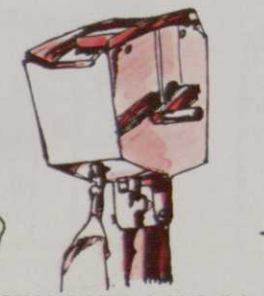
June 1979							August 1979							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	
					1	2					1	2	3	4
3	4	5	6	7	8	9	5	6	7	8	9	10	11	
10	11	12	13	14	15	16	12	13	14	15	16	17	18	
17	18	19	20	21	22	23	19	20	21	22	23	24	25	
24	25	26	27	28	29	30	26	27	28	29	30	31		

S	M	T	W	T	F	S
June 28-July 1—Danny Thomas Memphis Classic, Colonial CC, Cordova, Tenn.					5-8—Western Open, Butler National GC, Oak Brook, Ill.	
1	2	3	4	5	6	7
		10—Michigan State University and Michigan Turfgrass Foundation, Michigan Turfgrass Field Day, Crops Barn, Michigan State University, East Lansing			12-15—Greater Milwaukee Open, Tuckaway CC, Franklin, Wis. 12-15—Women's Open, Brooklawn CC, Fairfield, Conn.	
8	9	10	11	12	13	14
		16-21—Amateur Public Links, West Delta GC, Portland, Ore.		18-20—American Sod Producers Association, Summer Convention & Field Days, Hilton Inn East, Columbus, Ohio		19-22—Ed McMahon Quad Cities Open, Oakwood CC, Coal Valley, Ill.
15	16	17	18	19	20	21
			25—University of Massachusetts, Annual Turf Field Day, South Deerfield Turf Plots, South Deerfield, Mass.		26-29—IVB-Philadelphia Golf Classic, Whitmarsh Valley CC, Lafayette Hill, Pa.	
22	23	24	25	26	27	28
		31-Aug. 4—Amateur, Moss Creek GC, Hilton Head, S.C.				
29	30	31				

this month:



JOHN DEERE



STANDARD GOLF CO.



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VELSICOL CHEMICAL CORP.



REPUBLIC STEEL CORP.



RYAN TURF-CARE EQUIPMENT

AUGUST

July 1979							September 1979						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	2	3	4	5	6	7	8
8	9	10	11	12	13	14	9	10	11	12	13	14	15
15	16	17	18	19	20	21	16	17	18	19	20	21	22
22	23	24	25	26	27	28	23	24	25	26	27	28	29
29	30	31					30						

S	M	T	W	T	F	S
			July 31-Aug. 4—Junior Amateur, Moss Creek GC, Hilton Head, S.C.		2-5—PGA Championship, Oakland Hills CC, Birmingham, Mich.	
			1	2	3	4
		6-11—Girls' Junior, CC of Little Rock, Little Rock, Ark.		9-12—Sammy Davis, Jr. Greater Hartford Open, Wethersfield (Conn.) CC		
5	6	7	8	9	10	11
		14—Iowa State University, Annual Iowa Turfgrass Field Day, Horticulture Research Station, Ames	15—Central Plains Turfgrass Foundation, CPTF-KSU Turf Field Day, Kansas State University Turf Research Plots, Manhattan, Kan.		16-19—Westchester Classic, Westchester CC, Rye, N.Y.	
		13-18—Women's Amateur, Memphis CC, Memphis, Tenn.				
12	13	14	15	16	17	18
			22—University of Rhode Island, Rhode Island Turfgrass Field Day, Turfgrass Research Farm, University of Rhode Island, Kingston		23-26—Colgate Hall of Fame Golf Classic, Pinehurst (N.C.) CC	
			22-23—The Fertilizer Institute, Trade Fair, Stouffer's Riverfront Towers, Sheraton St. Louis, and Mayfair Hotel, St. Louis			
19	20	21	22	23	24	25
			28-Sept. 2—Amateur, Canterbury GC, Cleveland		30-Sept. 2—B.C. Open, En-Joie GC, Endicott, N.Y.	
26	27	28	29	30	31	

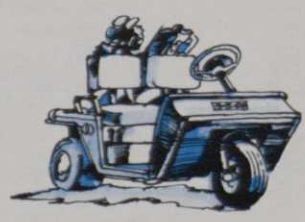
this month:



JOHN DEERE



STANDARD GOLF CO.



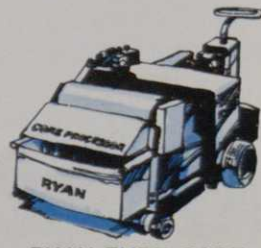
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VELSICOL CHEMICAL CORP.



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RYAN TURF-CARE EQUIPMENT

SEPTEMBER

August 1979							October 1979							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	
			1	2	3	4			1	2	3	4	5	6
5	6	7	8	9	10	11	7	8	9	10	11	12	13	
12	13	14	15	16	17	18	14	15	16	17	18	19	20	
19	20	21	22	23	24	25	21	22	23	24	25	26	27	
26	27	28	29	30	31		28	29	30	31				

S	M	T	W	T	F	S
					Aug. 30-Sept. 2—B.C. Open, En-Joie GC, Endicott, N.Y.	
						1
					6-9—American Optical Classic, Pleasant Valley CC, Sutton, Mass.	
2	3	4	5	6	7	8
		11—University of Illinois, Illinois Turfgrass Field Day, University of Illinois, Urbana			13-16—Buick-Goodwrench Open, Warwick Hills CC, Grand Blanc, Mich.	
9	10	11	12	13	14	15
		17-22—Senior Amateur, Chicago GC, Wheaton, Ill.			20-23—Anheuser-Busch Golf Classic, Silverado CC, Napa, Calif.	
16	17	18	19	20	21	22
	24-27—Northwest Turfgrass Association, Northwest Turfgrass Conference, Pope & Talbott Convention Center, Port Ludlow, Wash.		26-28—Senior Women's Amateur, Hardscrabble CC, Fort Smith, Ark.		27-30—World Series of Golf, Firestone CC, Akron, Ohio	
23/30	24	25	26	27	28	29

this month:



JOHN DEERE



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				LENGTH	WIDTH	*HEIGHT	WEIGHT
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GC-2H	T-105	6	105	10 3/8	7 1/16	11 1/2	67
GC-2H	T-135	6	135	10 5/16	7 1/8	11 3/8	73

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* TYPE OR TERMINAL WILL VARY HEIGHT SLIGHTLY

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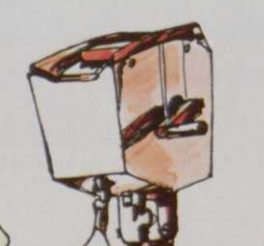



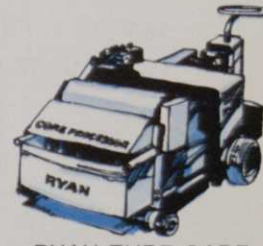
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OCTOBER

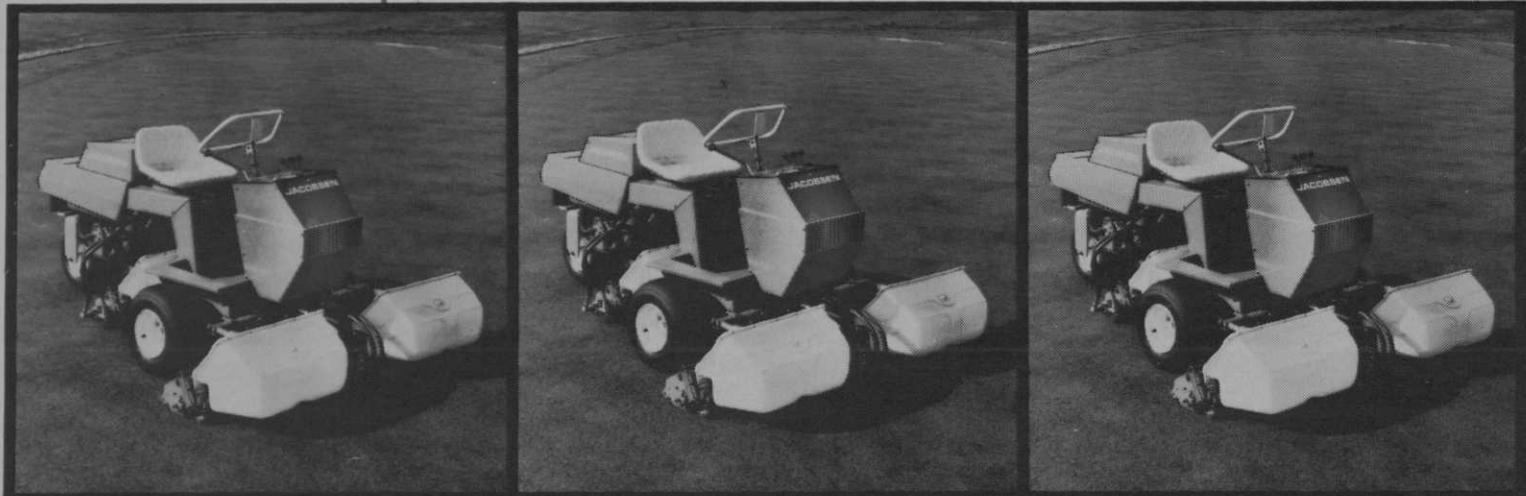
September 1979							November 1979							
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			3—Northern California Turfgrass Council, Northern California Irrigation Seminar, Goodman Hall, Jack London Square, Oakland		4-7—San Antonio-Texas Open, Oak Hills CC, San Antonio	
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			10-12—Central Plains Turfgrass Foundation, CPTF-KSU Annual Turf Conference, K-State Union, Kansas State University, Manhattan, Kan.		11-14—Southern Open, Green Island CC, Columbus, Ga.	
7	8	9	10	11	12	13
14-17—Florida Turf-Grass Association, 27th Annual Conference & Show, Tampa			17-18—Southern California Turfgrass Council, 19th Annual Southern California Turfgrass/Landscape Exposition, Orange County Fairgrounds, Costa Mesa	18-19—Southwest Turfgrass Association, Southwest Turfgrass Conference, Albuquerque, N.M.		
14	15	16	17	18	19	20
21-24—National Golf Foundation, Fall NGF Sponsor Membership Meeting, La Costa Resort, San Diego			24-25—Wisconsin GCSA and Milwaukee Sewerage Commission, Wisconsin Golf Turf Symposium, Pfister Hotel, Milwaukee		18-21—Pensacola Open, Perdido Bay CC, Pensacola, Fla.	
			21-25—Professional Grounds Management Association, PGMS Annual Conference & Trade Show, Baltimore Hilton, Baltimore		25-28—Walt Disney World National, Magnolia and Palm Courses, Lake Buena Vista, Fla.	
21	22	23	24	25	26	27
28-Nov. 1—National Recreation and Park Association, Congress for Recreation and Parks, Superdome, New Orleans						
28-Nov. 2—National Institute on Park & Grounds Management, National Turf Management Conference, Opryland Hotel, Nashville, Tenn.						
28	29	30	31			

this month:

 <p>JOHN DEERE</p>	 <p>STANDARD GOLF CO.</p>	 <p>E-Z-GO</p>	 <p>VELSICOL CHEMICAL CORP.</p>	 <p>REPUBLIC STEEL CORP.</p>	 <p>RYAN TURF-CARE EQUIPMENT</p>
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Win a Greens King!



3 lucky golf courses will win these brand new Jacobsen Greens Kings at the GCSAA 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
TEXTRON


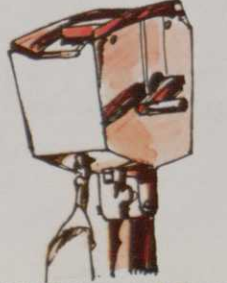


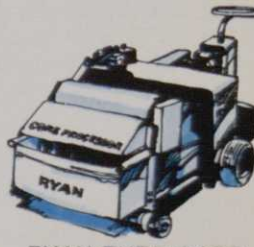
Jacobsen Division of Textron Inc.

NOVEMBER

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S	M	T	W	T	F	S
	<p>Oct. 28-Nov. 1—National Recreation and Park Association, Congress for Recreation and Parks Superdome, New Orleans</p> <p>Oct. 28-Nov. 2—National Institute on Park & Grounds Management, National Turf Management Conference, Opryland Hotel, Nashville, Tenn.</p>					<p>2—Northern California Golf Association, Annual Meeting, Lake Merced G&CC, Daly City, Calif.</p>
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<p>11-16—University of California, Davis, Park & Recreation Administrators Institute, Asilomar Conference Grounds, Pacific Grove, Calif.</p>		<p>13-14—Clemson University, 13th Annual Clemson Turfgrass Conference, Clemson House, Campus, Clemson, S.C.</p>				
11	12	13	14	15	16	17
<p>19-20—Georgia GCSA, 10th Annual GGCSA//U. of Georgia Turfgrass Short Course, Center for Continuing Education, University of Georgia, Athens</p>						
18	19	20	21	22	23	24
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this month:

 <p>JOHN DEERE</p>	 <p>STANDARD GOLF CO.</p>	 <p>E-Z-GO</p>	 <p>VELSICOL CHEMICAL CORP.</p>	 <p>REPUBLIC STEEL CORP.</p>	 <p>RYAN TURF-CARE EQUIPMENT</p>
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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

November 1979							January 1980						
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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				1
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		11-13—University of Illinois, 20th Annual Illinois Turfgrass Conference & Show, Ramada Inn Convention Center, Champaign				
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this month:

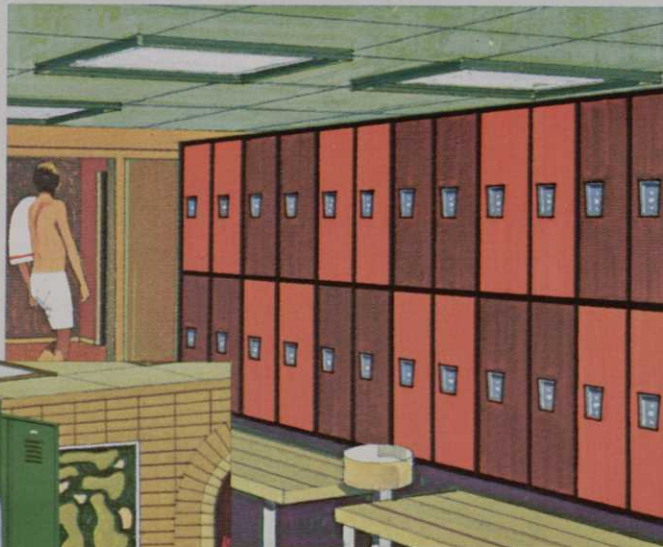
 <p>JOHN DEERE</p>	 <p>STANDARD GOLF CO.</p>	 <p>E-Z-GO</p>	 <p>VELSICOL CHEMICAL CORP.</p>	 <p>REPUBLIC STEEL CORP.</p>	 <p>RYAN TURF-CARE EQUIPMENT</p>
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We want to join your club!

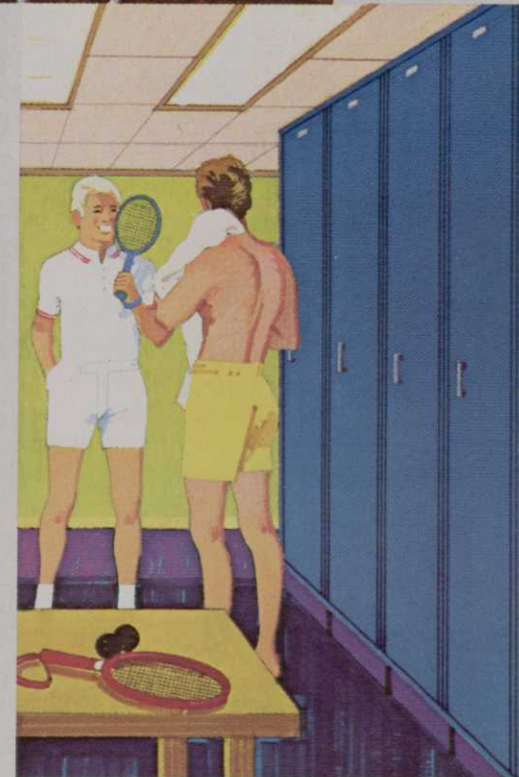


Your Tennis Club - with lockers that are as handsome as they are functional, and designed for maximum quiet.

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



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



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.

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- Make arrangements for me to inspect a Republic locker installation in a nearby club.
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Title _____

Club _____

Address _____

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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. □



How the professionals do it: The pesticide distributors warehouse above gives golf course superintendents an example to follow. Pesticides are stored neatly in their original containers, with all labels easily visible.



Wastewater irrigation conference report

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, golf course superintendents, 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 collected 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 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 Seascapes 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 aerification 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 $\frac{1}{4}$ 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 1½ 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,

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interval ownership apartment. When we came home, our son also bought one, although he'd never seen it."

Member courses receive free publicity through their listing in the course directory in *The Golf Traveler* magazine, through possible editorial coverage in the magazine, or through mention in *The Golf Card's* occasional advertising in national magazines such as *Golf Digest*.

Additional exposure can come from cardholders bringing nonmembers to play your course and from word-of-mouth advertising from golfers who visit your course and tell others about it.

It is possible, too, for a course or a designated person (such as your pro or general manager) to receive commissions on card memberships sold through your pro shop.

Goals for *The Golf Card* in the future, according to Ben Lampert, "evolve around being able to provide more and more benefits for participating courses. These potential services would include group casualty and liability insurance, tournaments, a centralized purchasing division, and management training."

For now, however, probably the best testimony to the effectiveness of *The Golf Card* would be the words of a current member course owner. Ed Membery, owner/operator of Golf/Ski Haven Country Club in Ontario, recently wrote to the Canadian division of *The Golf Card*:

"Golf/Ski Haven has been a member of *The Golf Card* group in Canada for only 3 months, and we are already reaping the benefits. It has been especially beneficial in boosting our weekday play. It is not restricted to weekdays only, but we find that most users of the card are tourists and they prefer to play during the Monday-to-Friday periods to avoid the weekend crowds.

"My purpose in writing this testimonial is to convince other Canadian golf clubs to join *The Golf Card* group as the more we have listed, the better we can attract our American visitors."

That, really, is how *The Golf Card* can help an operator build his business: by attracting more golfers to his course. □

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

Products

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 free 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 (49¼ inches) gives the trencher stability.

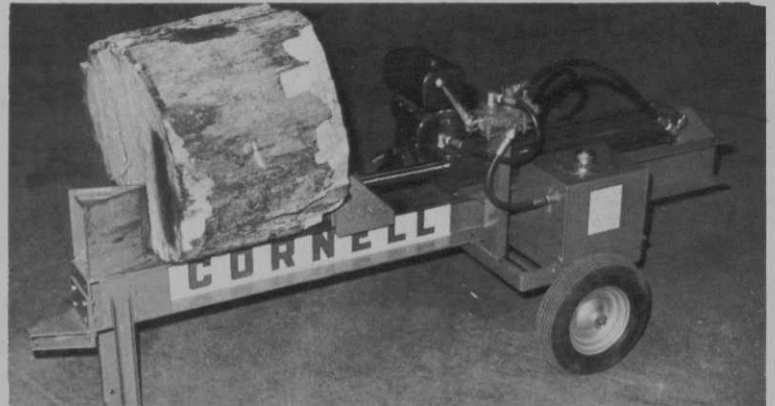
Circle 202 on free information card



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 12½ 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 free 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 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 free 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

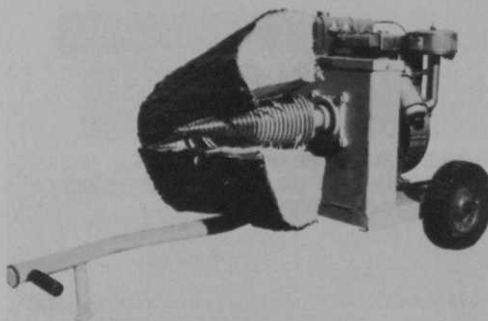


Undermounted rotary mower

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 1½ acres per hour. Three heat-treated 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

Information service

For free information on any of the products and services listed below, simply fill in and mail the postage-paid reader service card bound into the front of this magazine.

Three-wheel electric golf car from **AMF Harley-Davidson** boasts Master Drive: a two-circuit system that gives more rounds between charges, reduces downtime and charging costs, and increases battery life. **Circle 117 on card**

Cushman's three- or four-wheel Turf-Truckster vehicle is the heart of a complete turf care system. Equipment available includes an aerator, spikers, short box and flatbed/box, sprayer, spreader/seeder, top dresser, and Quick Aerator. **Circle 130 on card**

Model TCA551 aerator from **Dedoes Industries, Inc.** offers close to 2-inch spacing between holes, quick mounting to most any vehicle, forward and backward operation, fast and positive hydraulic up-and-down action, and hinged tine design. **Circle 120 on card**

Even though **John Deere's** model 850 and 950 tractors are smaller than many others being used on golf courses, they've proven big enough for most mowing jobs. They have 22 and 27 PTO

horsepower respectively, and both have 8-speed transmissions. **Circle 109 on card**

A precision greensmower by **Hahn Turf Products** cuts a full 67 inches, even in turns. Now you can adjust the reel to the bed knife without disturbing height of cut, and the cable-driven reel provides constant reel speed independent of ground speed. **Circle 133 on card**

Pennfine perennial ryegrass, marketed by **S.P.I.C.**, is able to stand up under heavy traffic, and it also germinates rapidly, making it ideal for winter overseeding in the South. **Circle 105 on card**

New Penneagle creeping bentgrass was developed by Dr. Joseph Duich of Penn State University and is marketed by **Tee-2-Green Corp.** Use it on tees, fairways, and greens for simplified turf management. **Circle 125 on card**

Mileage Master batteries, a product of **Trojan Battery Co.**, boasts new design changes for better golf car power and longer discharge ratings. Call toll-free 800/423-6569 or **circle 140 on card**

Nitrogen fertilization of bentgrass greens

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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 ½ 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

When answering ads where box number only is given, please address as follows: Box number, % Golf Business, Dorothy Lowe, Box 6951, Cleveland, Ohio 44101.

Rates: All classifications 65¢ per word. Box numbers add \$1 for mailing. All classified ads must be received by the Publisher before the 10th of the month preceding publication and be accompanied by cash or money order covering full payment.

Mail ad copy to Dorothy Lowe, Golf Business, Box 6951, Cleveland, Ohio 44101.

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 minimum 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 green 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 of 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 includes: golf, Pro Shop, banquets, 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 doz. min. order) whipping-500 yds-\$8.50, 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 Reinholds, 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 golfcars. Super condition, always stored inside, \$700 each. Eel River Golf Course, Churubusco, Indiana. 219 693-3464.

USED EQUIPMENT

USED HARLEY DAVIDSON golf cars, 1970 and 1972, 66 cars in stock. Prices start at \$500.00. Delivery can be arranged. Golf Systems, Inc. 616 784-1355.

BUSINESS OPPORTUNITIES

GOLF COURSES: Want to buy or sell a golf course? Our business is exclusively golf courses transactions. We also do golf course market value appraisals. McKay Realty — GOLF COURSE AND COUNTRY CLUB PROPERTIES. 15553 N. East St. (U.S. 27), Lansing, Mich. 48906.

MISCELLANEOUS

GOLF CART FLOOR MATS. New nylon reinforced rubber mats for Harley carts, \$14.75 per set. C.O.D. or send payment to Rice Die Cutting Co., 8831-33 Avenue, Kenosha, Wisconsin 53142.

KNOW pH INSTANTLY. Electronic tester, portable, handheld. For soil, liquids, etc. Low cost (under \$25). Details free. A & H Marketing, Dept. J1, 8325 Dru Ave., SE, Albuquerque, MN 87108.

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