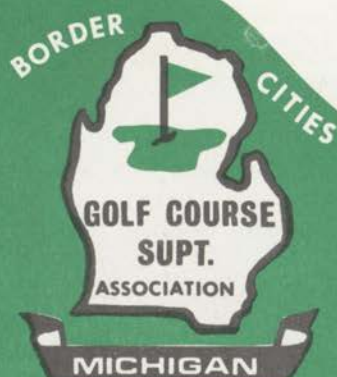


June 1976



JUL 1 1976

MICHIGAN STATE UNIVERSITY
LIBRARIES

A PATCH of GREEN

Official Publication of the
Michigan & Border Cities Golf Course Superintendents Association

LET THE EXPERTS AT J. J. DILL HELP YOU

MAKE IT "a green year"

**BUY DIRECT • SAVE MONEY
GET FAST DELIVERIES**

Your budget will buy more — in chemicals and equipment to apply them — when you deal direct with Dill. As manufacturer, formulator and/or distributor, Dill can save you money. Consistently.

Dill offers the most complete line of quality turf chemicals in the midwest . . . complete with application instructions.



DIAL TOLL-FREE (WATTS) 800-632-4057

TURF CARE

TIP OF THE MONTH

FREE

VALUABLE CATALOG

Latest edition, up-dated in all respects. Contains a wealth of information. Lists and describes **hundreds** of chemicals, pesticides and equipment for maintenance of grounds and waters of golf courses, parks, recreation areas and resorts.



Dill is headquarters for complete lines of: • Fungicides • Herbicides • Algaecides • Insecticides • Foggers • Sprayers.

PROMPT DELIVERY throughout southern Michigan and northwestern Ohio, including weekly shipment via our trucks covering the Detroit, Flint, Lansing and Toledo areas.

THIS SUMMER . . .

New Daconil Liquid will cure unwanted diseases.

Rotate systemic fungicides among Chipco Spot Kleen, Fungo 50, and Tersan 1991.

Save on nitrogen costs by maintaining color and vigor with Microgreen Liquid.

J. J. DILL COMPANY Box 788 KALAMAZOO, MI 49005 Dept. PG-4

Gentlemen: Please send your latest Turf Care Catalog.

NAME _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____



MICHIGAN AND BORDER CITIES GOLF COURSE SUPERINTENDENTS ASSOCIATION

PRESIDENT

GEORGE W. PRIESKORN
BURROUGHS FARM GOLF CLUB
5341 Brighton Road
Brighton, Michigan 48116
Off. 227-1381, Res. 229-9437

VICE PRESIDENT

CLEM WOLFROM
DETROIT GOLF CLUB
530 Kendry
Bloomfield Hills, Michigan 48013
Off. 345-4589, Res. 338-6375

SECRETARY-TREASURER

ROBERT HOPE, CGCS
THE LOCHMOOR CLUB
20740 Marter Road
Grosse Pointe Woods, Michigan 48236
Off. 881-8112, Res. 884-8684

BOARD OF DIRECTORS

ROGER GILL
PINE LAKE COUNTRY CLUB
1894 Alton Circle
Walled Lake, Michigan 48088
Off. 681-1322, Res. 264-6931

DON LA FOND
BAY POINTE GOLF CLUB
3635 Union Lake Road
Union Lake, Michigan 48085
Off. 363-0144, Res. 363-1142

BRUCE WOLFROM, CGCS
BARTON HILLS COUNTRY CLUB
639 Barber Street
Ann Arbor, Michigan 48105
Off. 662-8359, Res. 663-9213

JAMES TIMMERMAN
ORCHARD LAKE COUNTRY CLUB
2474 Lafay
Orchard Lake, Michigan 48033
Off. 682-2150, Res. 682-7234

WARD SWANSON
PLUM HOLLOW GOLF CLUB
29642 Westfield
Livonia, Michigan 48150
Off. 352-2436, Res. 421-8049

WALTER TROMBLEY, CGCS
ARROWHEAD GOLF CLUB
3130 Orion Road
Lake Orion, Michigan 48035
Off. 373-5240, Res. 693-2924

PRESIDENT EMERITUS

GERALD GILL, CGCS
TAM-O-SHANTER COUNTRY CLUB
3466 Walnut Lake Road
Walnut Lake, Michigan 48033
Off. 626-8325, Res. 851-7904

"A PATCH OF GREEN"

31823 Utica Road, Fraser, Mich. 48026
(313) 293-3540

Published monthly by the
MICHIGAN AND BORDER CITIES GOLF
COURSE SUPERINTENDENTS ASSOC.

Circulation 1,250

Ted Woehrle, CGCS, Oakland Hills C.C.
Clem Wolfrom, Detroit Golf Club
Co-Editors

Printed At
BLAKEMAN PRINTING COMPANY
Fraser, Michigan

MONTHLY ADVERTISING RATES

Double Page Spread.....	\$100.00
Back Outside Page.....	85.00
Full Page.....	55.00
Half Page.....	35.00
Quarter Page.....	25.00
Eighth Page.....	12.50
Sixteenth Page.....	7.50
Classified Ad (per column inch).....	5.00

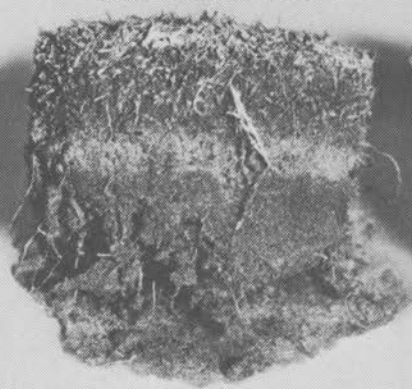
DISCOUNT RATES: One Year 10%

THIS MONTH'S ADVERTISERS

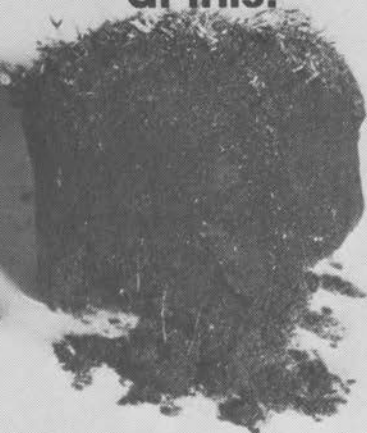
Alfco Inc.
Century Supply Corporation
Chemagro
Chipman Division of Rhodia
W.A. Cleary Corporation
Dedoes Industries, Inc.
J.J. Dill Company
FDS Fertilizers, Inc.
Howell Farm Tree Nursery
Huggett Sod Farm, Inc.
Lakeshore Equipment Corporation
Lawn Equipment Corporation
Lebanon/Agrico
Northrup, King & Co.
W.F. Miller Garden Company
O.M. Scott & Sons Company
Sprinkler Irrigation Supply (Sisco)
Terminal Sales Corporation
Turfgrass, Inc.
Turf Supplies, Inc.
USS Agri-Chemicals
Wilkie Turf Equipment Company

bio de-thatch®

**Looking
for results?**



**Take a look
at this!**



Photograph of plugs removed from test plots at University of Florida, Plantation Field Laboratory, Ft. Lauderdale, Florida. Research is continuing.

It's a proven fact that thatch is a major problem in highly maintained turf. Thatch reduces air and water movement into the soil, impedes utilization of fertilizers, and provides a favorable environment for insects, fungi, and diseases. The sample on the left shows what happens when thatch is allowed to build up. And look at that compaction layer.

Now take a close look at the plug on the right. Bio de-thatch was applied to this turf. Before total decomposition, the grass turned a darker green and the rate of growth increased. The actual decomposition became apparent

approximately 8 months after application. By the end of 12 months, most of it had disappeared and the changes as shown above were dramatic.

It's readily apparent that the micro-organisms in bio de-thatch have done their job well—the thatch is gone, leaving a rich humus for better water penetration, retention, and improved soil tilth. It all adds up to a stronger, healthier turf when using this proven product. If you'd like more information on bio de-thatch see your local USSAC distributor or write to USS Agri-Chemicals, P.O. Box 1685, Atlanta, Georgia 30301.

Bio De-Thatch is a registered trademark of Bio De-Thatch Mfg. Co.
® Photo copyright by Bio De-Thatch Mfg. Co.



Marketed by
Agri-Chemicals
Division of United States Steel

"50 Years of Progress"

Is Golden Anniversary Celebration Theme

We hope that all GCSAA members have marked September 13, 1976 as a very special day on their calendars. Sylvania Country Club will be the focal point for the many activities associated with GCSAA's 50th Anniversary Celebration and it is hoped that many members will be in attendance to participate in the day long festivities. Registration materials for the anniversary activities and annual tournament are in the process of being printed and will be mailed to all members in the near future.

During the day there will be demonstrations of some of the old equipment which will be on display at the club. Several of these items will come from GCSAA's permanent collection housed at Michigan State University, with other pieces from private collections of members and commercial firms in business at the time of founding of the Association. Historical photographs and several audio/visual presentations, including a Ray Gerber film, will also be part of the daytime activities.

The high point of the afternoon's events will be the presentation of a GCSAA plaque to the Sylvania Country Club. The plaque, cast in bronze, will be permanently mounted on a large stone to commemorate GCSAA's founding at Sylvania Country Club. The inscription will read, "Birthplace of Golf Course Superintendents Association of America. Founded as National Association of Greenkeepers of America. September 13, 1926, Sylvania Country Club." Plans call for association and club officials to be "piped" from the clubhouse to the

presentation site by a Scottish bagpiper.

Among the honored guests expected to be in attendance will be Charter Members, Past Presidents, Outstanding Service Award recipients, governmental officials, representatives of the several allied associations, and reporters from the major turf and golf publications.

After the day long activities, the Anniversary Celebration will conclude with an evening banquet and ceremony keynoted by Arnold Palmer. Chapter members, Past Presidents and the eleven (11) Outstanding Service Award recipients will be honored at the evening affair. Due to the limited seating at the banquet ceremony, advanced registration and purchase of tickets will be mandatory. The banquet is the only activity for which there will be a charge. However, all members planning to attend the days celebration will be encouraged to pre-register to give the Committee and GCSAA staff a better opportunity to plan for transportation, parking facility requirements, and the 50th Anniversary souvenirs.

Practice rounds will also be played in preparation for the GCSAA Golf Tournament to be held September 14 and 15. Details concerning the tournament appear in this month's Member Newsletter.

Again, the Golden Anniversary Committee urges members to begin making plans now to attend and participate in the anniversary activities of their Association on September 13, in Sylvania, Ohio.

Certified Superintendents Report Favorable Response to Program's Value

From FORE FRONT, May, 1976

The value of becoming a Certified Golf Course Superintendent, according to a recent survey of Certified GCSAA Members, is dependent upon the desires of the individual, and his personal abilities to realize those goals.

A companion survey of employers indicates a strong interest in the program, particularly when the individual superintendent has fully advised the club about Certification. In monetary terms, salaries of the Certified Superintendent averaged more than \$2,900 higher than the salaries of all superintendents, as determined by GCSAA's national survey in 1974. Nearly a quarter of those responding to the certification survey indicated they received a pay raise upon attaining the CGCS status.

Especially revealing in the survey were personal comments made in response to various questions. As to why the individual took the Certification examination, answers ranged from remarks such as, "Felt it could only be of benefit and think someday it will mean much more to the people who hire superintendents. You'll need CGCS to get the good jobs," and "I feel that Certification is an advancement and any educational advancement should be taken advantage of," to remarks such as, "Why do you climb a mountain?" or "To find out if I was capable of passing."

Employers, in response to the question, "Do you feel it is to your advantage to hire a Certified Superintendent?", noted "Certification provides the employer assurance that the employee does possess expertise and knowledge in Golf Course Management, and that his knowledge is

recognized by an organization comprised of Golf Course Management Professionals." Others commented, "By all means, no course should be without a Certified man," or "We feel we can rely on an individual with credentials."

Public relations aspects of the program were most often criticized in the survey by CGCS Members. They noted that little was made of the event at the club, and perhaps even at the chapter level. Although GCSAA is embarking upon a stronger overall public relations program, it was concluded that a major responsibility for the program's success lays with the individual making his achievement known personally.

Opportunities of announcing this achievement have been expanded now that the newly Certified individual may determine when and where the plaque presentation will be made, and could therefore ask that it be held during a club function, or other time when people he would like to know about the achievement would normally be present. Additionally, upon a request of the individual, a news release is sent by GCSAA to all news outlets he desires.

Cont. on Next Page

DON CLEMANS IS THE 300TH CERTIFIED GOLF COURSE SUPT.

Don Clemans, formerly of Orchard Lake Country Club and past Secretary Treasurer of our local Chapter, recently became the 300th Certified Superintendent.

Don is now at the Olive Glenn Golf Course, Cody, Wyoming.

Congratulations!

It was generally agreed by those responding to the survey that Certification will become more and more important to the profession as more people become Certified and word spreads through the superintendents, employers and golfers about the advantages of the program.

Currently more than 300 GCSAA Members have become Certified with a third again that number in some stage of progress. Basic eligibility now requires current employment as a golf course superintendent and at least two years status as a Class A member of GCSAA.

The six-part written examination required for Certification covers the areas of practical turf management, plant protectant chemicals, business administration, leadership, golf and GCSAA. A maximum of six-hours if permitted for completion of the open-book test.

To maintain Certification status, a CGCS Member must accumulate a minimum of six points during the five years following his initial Certification. The points are granted by the following method: GCSAA Conference will provide one-half a point per conference, GCSAA Seminars successfully completed will provide two points, the two-hour Recertification Examination will provide four points upon successful completion, or the individual may choose to take the then current six-hour Certification exam for six points.

Although the Certification Program contained a "grandfather clause" at its inception in 1971, that option is no longer available, and all members, regardless of age or years of Class A membership, must complete all parts of the program to attain Certification.

Application forms and additional information concerning the program are available from the GCSAA Director of Education, 1617 St. Andrews Drive, Lawrence, Kansas 66044.

RON BRANDON IS CERTIFIED

Ron was notified of his achievement on April 9, 1976 by Director of Education, Bill Knoop, GCSAA. He has met all the requirements of Certification which are based not only on experience factors, but academic achievements as well.

By becoming Certified, he has indicated his willingness to be judged by the standards of his profession and to assume a position of leadership.

Ron is Superintendent at the Warwick Hills Country Club of Grand Blanc, Michigan.

LATE DUE TO WEATHER

Apology - The editor must apologize for the lateness of this issue. This 8 day stretch of 90 degree weather has kept me very busy at my job and I found it difficult to take the necessary time to put together this issue.



Helping the superintendent through turf research...

- Controlled Release Fertilizers
- Fertilizer/Pesticide Combinations

SCOTTS • LELY • GANDY SPREADERS

Finest quality turfgrass seed - Fairways • Greens • Tees • Roughs
Scotts Windsor and Victa blends

- Fungicides-Herbicides-Insecticides
- Soil Testing-Weed & Disease Identification

Ted Mulcahey

Technical Representative
7205 S. Jennings Road
Swartz Creek, Mich. 48473
Telephone: 313/655-4702

IBDU Nitrogen Release Research

Use of slow-release and slowly soluble nitrogen fertilizer can cut a turfgrass manager's fertilization labor costs and also offers other advantages such as less risk of foliar burning than readily soluble materials.

Currently, there's much interest in isobutylidene diurea (IBDU), a synthetic organic condensation product of urea and isobutraldehyde. IBDU is a slow-release high-analysis material (theoretically containing 32.19% nitrogen with guaranteed analysis at 31%) which doesn't produce objectionable odors when moistened.

Research in progress at the University of Illinois is aimed at obtaining a better understanding of how IBDU behaves in different soils. Researchers there are attempting to characterize its nitrogen release rates in incubated soil samples at various soil pH levels and the release rates from its various particle sizes. This research eventually may result in a mathematical description of nitrogen release from IBDU which could be used for making accurate application rate recommendations.

One problem encountered to date in determining the effects of soil pH on release of nitrogen from IBDU is the change in soil pH which results from the release of nitrogen. The Illinois research findings show that when IBDU is added to a soil at a rate of about 1.5 pounds of nitrogen per 1,000 sq. ft. the soil pH is reduced as

much as 1 pH units in about six weeks. Study results do show that rate of release are significantly greater in soil with an original pH of 5.7 than 7.7. Soil pH does appear to be a factor which must be considered when making IBDU application recommendations.

The Illinois work indicates that the release of nitrogen from 0.6 to 0.7 millimeter IBDU particles is complete in about six weeks. This rate compares with a 50 percent nitrogen release after 10 weeks for 1.7 to 2.0 millimeter particles.

During the Illinois IBDU studies, it has been noted that losses of available nitrogen occur. Why or how has not been determined nor whether losses would occur under field conditions.

PLAN NOW:

**Celebrate GCSAA's
Golden
Anniversary
Sept. 13, 1976
Sylvania CC
Sylvania, Ohio**

(Complete details will be
sent to all GCSAA Members)

HUGGETT SOD FARM, Inc.

Wholesale Growers of
QUALITY LAWN TURF

Nuggett + II
Kentucky Blend
Huggett's Shade Mix

Warren's A-34
Warren's A-20
Bentgrass Sod

4114 E. MARLETTE
MARLETTE, MICH.
48453
Phone (517) 635-7482



Keep your turf in top playing condition. Trust it to Chemagro.

- ***NEMACUR 15% Granular** is a fast-acting nematicide that provides months of residual control of all major turf nematodes. Requires no injection—apply with a granular applicator and water in.
- ***DYRENE fungicide** controls dollar spot, plus all *Helminthosporium* diseases—melting out, leaf blight, leaf spot. Also controls copper spot, stem rust, brown patch and snow mold. Its small cost offsets the big cost of repairing after disease gets started.
- ***DEXON fungicide.** Stops *Pythium*. This non-mercurial fungicide is also extremely effective in preventive programs to control cottony blight. It's compatible with other turf pesticides.
- ***DASANIT nematicide/insecticide.** Broadcast DASANIT 15% Granular for control of microscopic nematodes that destroy turf root systems, cause grass seedlings to wither and die. Requires no injection that makes turf unplayable for weeks during spring and summer. Easily applied with any conventional granular insecticide applicator. Thorough watering leaches nematicide into root zone for maximum control.
- ***DYLOX insecticide.** This fast-acting selective insecticide gives quick

clean up of sod webworms. Dissolves readily in water for application with any type of spray equipment.

- ***BAYGON insecticide.** A carbamate insecticide that controls certain turf insects, including many species resistant to chlorinated hydrocarbon and organophosphate insecticides. Safe to Bermuda, zoysia, rye, clover, colonial bentgrass and other common varieties when used as directed.

For great turf that gives your golfers great shooting, order these Chemagro turf pesticides from your chemical distributor.

Chemagro Agricultural Division of
Mobay Chemical Corporation.
Box 4913, Kansas City, Missouri
64120.

BAYGON, DASANIT, DEXON, DYLOX and NEMACUR are Reg. TMs of the Parent Company of Farbenfabriken Bayer GmbH, Leverkusen.

DYRENE is a Reg. TM of Mobay Chemical Corporation.



RESPONSEability
to you and nature

7659B

COBO HALL *Flower Show*



Part of the crowd at the Annual Flower Show at Cobo Hall standing in line to buy chances on the car being raffled off by local Supts.



The First Prize — a new Dodge Aspen Sports Coupe.



L to R: Jim Standish, Executive Director, GAM; Tom Rex, Chairman, Greens Section, GAM; Jim Dowsley, Speaker on Budgets, GAM.



Dr. Joe Vargas, MSU, speaker on Poa Annua control.



Panel on Water Management, L to R: Fritz McMullen, Supt. Forest Lake C.C.; Ward Swanson, Supt. Plum Hollow G.C.; Fred Ellis, Ellis, Arndt, Truesdell; Gene Johanningsmeier, Turfgrass, Inc.; Chairman Ernie Hodas, Century Supply Corp.

***No synthetically produced fertilizer can compare with
MILORGANITE***

Golf Courses Use More

MILORGANITE

Than Any Other Fertilizer



TERMINAL SALES CORP.

12871 EATON AVE.
DETROIT, MICH. 48227
(313) 491-0606

BILL KNOOP RETURNING TO IOWA

Bill Knoop, Director of Education, GCSAA, will leave that post and on September 1, will return to Iowa and Iowa State University on a joint Appointment in Horticulture and Agronomy. His basic charge will be Landscape Development and Maintenance.

Bill graduated from ISU in the late '60s then went to the University of Florida for his masters degree and from there to the University of New Hampshire where he took his pH.D work and from where he will soon receive the degree. He has been with GCSAA since March of 1974.

At ISU he will have the job of developing the turfgrass plots at the Horticultural station. It may be expected he will take a very active participant role with IGCSA similar to that of Eliot Roberts several years back.

JIM VLASSIS MOVES TO BURROUGHS FARMS GOLF CLUB

Jim Vlassis has resigned as Superintendent of the Lakelands Golf & Country Club, Brighton, Michigan, to fill the position at Burroughs Farm Golf Club.

Jim was replaced at Lakeland by Charles Gaige, a new class B member of the Association.

We wish them both the best of luck.

NORTHERN MICHIGAN TURFGRASS FIELD DAY

WEDNESDAY, SEPTEMBER 8, 1976

Contact: Scott D. Eicher
Department of Crop & Soil Sciences, MSU
East Lansing, Michigan 48824

PROFESSIONAL GROUNDS MANAGEMENT SOCIETY

— Annual Convention —
August 9-13, 1976

Dearborn Inn, Dearborn, Mich.

CHIPCO protects your turf from the world's toughest critic... The golfer

- | | |
|--|---|
| <input type="checkbox"/> Chipco® Spot Kleen | <input type="checkbox"/> Chipco® Thiram 75 |
| <input type="checkbox"/> Chipco® Microgreen
Liquid | <input type="checkbox"/> Chipco® Crab Kleen |
| <input type="checkbox"/> Chipco® Turf Herbicide "D" | <input type="checkbox"/> Chipco® Turf Herbicide
MCPP |
| <input type="checkbox"/> Chipco® Spreader
Activator | <input type="checkbox"/> Chipco® Buctril® |
| | <input type="checkbox"/> Chipco® Turf Kleen |

RHODIA INC. AGRICULTURAL DIVISION
Monmouth Junction, New Jersey 08852



Too Many Graduating Superintendents?

There is a certain amount of feeling that schools are turning out golf course superintendents faster than the demand can absorb them. This could do two things they say: (1) Jeopardize the jobs of older more experienced superintendents and, (2) leave the new turf graduate without a job after spending considerable time and money attaining the degree.

I contend these are practical possibilities but see no great demise of the individuals concerned, but rather I see the development of an incentive to improve or leave the superintending to others. I further contend it will upgrade the profession and at the same time improve the playing condition of golf courses.

If there is indeed a surplus, and no one really knows, then perhaps the short term, highly concentrated type of turf learning experience is the answer. It requires a minimum of time and money and permits a person to decide whether this is his "thing". It also is a way for the practicing superintendent to upgrade himself.

In the meantime, new positions will still be open to those best qualified. At the same time many

courses will ante their personnel qualification requests with higher salaries for those individuals who can give them the most for their money in times of higher costs and scarcity in many areas.

Charles Calhoun, Editor

LUCKY GEORGE

President, George Prieskorn has been sent an invitation to participate in the Second British International Greenkeepers and Superintendents Golf Tournament at the Walton Heath Golf Course in London, England on October 6 and 7th, 1976.

This will be an all expense paid trip for George. He will be representing the United States.

Two other GCSAA members will be joining George to fill out the three man team.

The selection was made by the Executive Committee and the Golf Tournament Committee.

These three men have the best overall record in past tournaments held in recent years.

Nice going, George.



- FAIRWAYS -

12-4-8 . . . 4% W.I.N.
18-0-9 . . . 6% W.I.N.
18-5-9 . . . 6% W.I.N.
20-5-10
30-3-10 . . 10% W.I.N.

- GREENS -

16-0-8 . . 10% W.I.N.
18-3-12 . . 6% W.I.N. with
Iron Sulfate

45-0-0 Dutch Brand Urea

CALL

FRED D. SPEIER
(313) 681-9336

"Finest quality ingredients - economically priced."

5324 W. BLOOMFIELD LAKE W. BLOOMFIELD, MICH. 48033

No. 1 reason for converting to a TORO Automatic Sprinkler System:



TORO®

Results.

And if you want more than one good reason, here are 9 more:

- TORO'S new 670 head gives you the wide spacing you need for conversion at lowest cost.
- Controlled precipitation rate aids growth, maintains healthy turf, improves your course.
- Shorter irrigation time allows earlier and later play.
- Cuts water waste by at least 30%.
- Eliminates need for night crew, cuts labor costs.
- TORO valve-in-head (single head control) compensates for terrain difference, preventing line drainage, puddling, and wet and dry spots.
- TORO Vari-time central controller puts irrigation at superintendent's fingertips.

- Easy installation means minimum turf disruption, no down time or interruption of play.
- You can convert greens and tees or greens first, then fairways, paying as you go.

If you're considering a TORO conversion, you may already be half-way there . . . considering that a TORO automatic system can probably use most of your existing pipe. Find out how to go all the way to TORO results. Write today for a complete conversion brochure:

WILKIE TURF Equipment Company

P. O. BOX 749 • PONTIAC, MICHIGAN 48056
1050 OPDYKE ROAD • PHONE (313) 373-8800

Cleary Products for Better Turf

Fungicides

3336 Turf Fungicide

A broad spectrum systemic fungicide that prevents and controls all six major turf diseases.

Bromosan Turf Fungicide

The newest broad spectrum systemic fungicide for those persistent trouble areas.

- Caddy ● Granular Turf Fungicide
- PMAS (10%) ● Cad-Trete
- Spotrete ● Spectro

Herbicides

MCPP

MCPP Plus 2,4-D

Methar 80

Methar 30

AMA Plus 2,4-D

AMA (Super Methar)

Specialties

All Wet

Clear Spray

Tru-Green

Grass-Greenzit

W-A-CLEARY
CORPORATION

P.O. Box 10, Somerset, N.J. 08873

HANDBOOK AVAILABLE

Codes, regulations and new industry products are ever changing, states Ernie Hodas, President of Century Rain-Aid, irrigation and water moving specialists.

The timely, important subject of "Backflow Prevention" is reviewed in a new handbook published by Rain Bird. Hodas states the book asks sixteen important questions and gives sixteen simplified illustrated answers on this significant subject.

This well timed Handbook is yours for the asking. Just call or write:

Century Rain-Aid

3890 W. Eleven Mile Road

Berkley, Michigan 48072

Phone: (313) 543-7730

Century Rain-Aid will continue to make you aware of the new publications that affect the water moving industry.

ARE YOU INTERESTED IN JOINING THE MICHIGAN AND BORDER CITIES GOLF COURSE SUPERINTENDENTS ASSOCIATION?

Fill in the questionnaire below and mail to:



BOB HOPE
The Lochmoor Club
20740 Marter Road
Grosse Pointe Woods, Mi. 48236
Off. 881-8112, Res. 884-8684



NAME OF INTERESTED PERSON _____ DATE _____

MAILING ADDRESS _____

CITY _____ STATE _____ ZIP _____

Or you may contact the next golf course supplier who calls on you and give him the information needed for application.

How to Keep a Well-Trained Crew

by CHESTER MENDENHALL

In trying to keep a well-trained crew on a golf course, you have many hurdles to overcome. I think you can list them in this order: Working hours or time, salary, permanence of employment, fringe benefits and retirement.

Today the trend is toward a shorter work week. Golf course workers, like industrial workmen, want to work only a forty-hour week, and they would much rather not do any part of the forty hours on Saturday or Sunday. This creates a real problem, as it is hard to convince the grass that it should grow only the first five days of the week and then go two days without mowing or water.

It seems to me that we have no alternative than to meet the challenge of a shorter work week head-on. This means employing every labor-saving technique and device possible, and then alternating the working time of employees so that some men are on duty at all times.

So it boils down to this: give your key men who would like to have extra work as much Saturday and Sunday work as you can. Most of your crew will be much happier working a forty-hour week.

Salaries are a big problem, especially around industrial areas. Few clubs are willing to meet the pay

Continued on Next Page



HOWELL FARM TREE NURSERY

Select Choice Trees Now For Delivery

60,000 Trees — 30 Varieties

Inspected, Budded Stock

Bare Root or B. & B.

call

Ward Swanson — Bill Buettner

357-4740

scale of industrial plants. This is a big handicap in securing golf course labor. The available workers are older men, handicapped men, men with below normal aptitude, a few men who are not adaptable to assembly line work, and some who like to be out of doors. The last fit into golf course work best.

After you find a desirable man, the next problem is to give him steady employment. Sometimes it becomes a matter of creating work. However, there are improvements that can be made during the off-season and greatly reduce some of the work during the summer season. This is not creating work but taking advantage of the time of well qualified men during the winter months.

ASSIGN INTERESTING WORK

If a man is given work that interests him, he will do a good day's work under adverse conditions. The superintendent should know something

about the special skills of his workmen and have a good knowledge of all types of work to be done. The men should be assigned work that interests them most. Then in answer to the question "Does it pay to make work during the off-season for good men?" the answer is "yes".

It costs money to train men, and to train a man in all 'round maintenance takes more than one season. A club should keep a sufficient number of men year-round to fill the lead positions. However, few clubs are in a position to make work for their entire summer crew. This means most of us have to depend on some seasonal help. Our best seasonal helpers have been college men. They are alert and understand instructions. Most are interested in gaining knowledge, as well as earning money to carry on their education.

Women, too, are excellent workers.

Continued on Page 18

WANT THE FINEST TURF IRRIGATION SYSTEM?

Use the complete J-M turf irrigation system.

Some of our most beautiful and best cared for environments are golf courses. We can help make the good ones better and keep the great ones great . . . easily, in fact, automatically, with the complete Johns-Manville turf irrigation system.



CALL YOUR SISCO MAN TODAY!

Jim Vince - Mike Byrnes - Tom Kennedy - Warren Gulick

- 313-398-2233 -

SPRINKLER IRRIGATION SUPPLY COMPANY

1316 N. Campbell Rd., Royal Oak, Mich. 48067

Sisco
ENGINEERED RAIN

THE NEW PRO ON THE COURSE

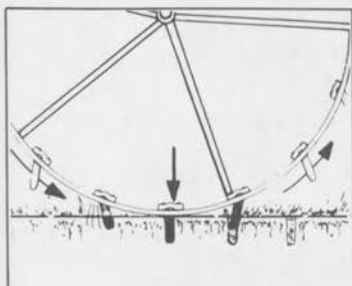


Dedoes TAKES THE WORK OUT OF AERATING

THE DEDOES Pro-TCA (Total Course Aeration) aerator replaces a team of men. Consider these unique features:

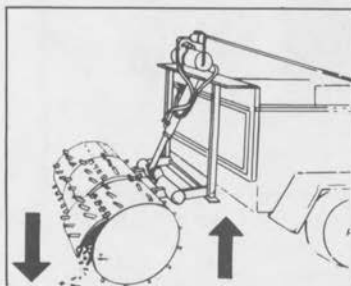
- Aerates any green or tee in less than 20 minutes.
- Collects cores to save you costly cleanup.
- Adapts and quickly mounts to your all-purpose vehicle.
- Rugged construction and engineering design saves you maintenance costs.

DEDOES also has a Fairways unit with the same hinged door and/or removable side plate features. The DEDOES 501 and 601 give you Total Course Aeration.



PATENTED HINGE

The Dedoes patented hinge principle provides near-perfect perpendicular penetration, which gives you clean 1/2" holes without the slightest tear.



HYDRAULIC UNIT

The self-contained hydraulic system lowers the unit and transfers the vehicle's weight to create the down force for necessary penetration.

Your turf pro distributor has details on the DEDOES TCA line

SUMMIT POWER, Ft. Wayne, Ind., W.F. MILLER, Birmingham, Mich., & Grand Rapids,
and EARL J. CRANE, INC., Tiffin, Ohio

Dedoes INDUSTRIES, INC.

1060 W. West Maple Road, Walled Lake, Michigan 48088 (313) 624-7710

Well-Trained Crew Cont.

There are a good many jobs around a club they can do as well as men. They are neat in appearance and in their work. If they like outside work, they are good gardeners. They all drive cars and can soon be trained to handle tractors and ride mowers as well as men.

As for fringe benefits and retirement, this is a matter that has received very little consideration at most golf clubs, but it is something we must consider as we strive to meet the competition of industry for good men.

If your club offers any fringe benefits, such as sick leave, paid vacations, retirement, be sure your employees know what they are. They should know when they are eligible and what they can expect.

Keeping a well-trained crew starts with the first interview you have with a prospective employee. The interview

should be frank and directly to the point. Try to find out something about the character and the temperament of the man, and then you will have some idea whether he will fit into your present crew. Let him know what the working conditions at your club are, and what you will expect of him. If this first interview is well conducted, a new man will come on the job with respect for you, your other employees and the club members. This is the first step toward a satisfied employee.

Careful selection on new employees is very important. Most every club spends several hundred dollars each year training new employees. If a new employee stays only two months or less, his training is a loss to the club. (Reprint from New Hampshire Turf Talk)

Man's brain can be likened to a wagon. The lighter the load, the noisier it becomes.



**FORE-PAR MANUFACTURING
CHICOPEE MANUFACTURING CO.
3M ENVIRONMENTAL PRODUCTS
AGRICOL FERTILIZERS
FOX VALLEY MARKING SYSTEMS
E. I. DUPONT**

**ACTI-DIONE PRODUCTS
VELSICOL CHEMICALS
CONTAINER DEVELOPMENT
CYCLONE SEEDER COMPANY
MALLINCKRODT CHEMICALS**

- DISTRIBUTED BY -



TURFGRASS, INC.

Phone: Area 313 437-1427

Northrup King thinks:

quality turfgrasses ought to hang tough!

Today you need turfgrass that can thrive with as little maintenance as possible. So Northrup King offers seed for grass varieties that are both beautiful and tough.

Aquila Kentucky Bluegrass persists under low to moderate fertilization, and it requires less moisture to maintain its dark green color. These attributes distinguish Aquila from other bluegrass varieties.

Parade Kentucky Bluegrass is extremely fast-starting and develops a tough sod quickly. It is truly a vigorous variety that can take traffic and come back fast from injury.

For information on these and other outstanding turfgrasses, contact your Northrup King representative.



NORTHROP, KING & CO.

BOX 959 • MINNEAPOLIS, MINNESOTA 55440

Is Your Fertilizer Working?

Are your fertilizers working? Maybe you should read the following:

Nitrogen transformations in soil as affected by the fungicides benomyl, dyrene, and maneb. A. R. Mazur and T. D. Hughes, University of Illinois, Department of Horticulture. Agronomy Journal Vol 67 (6) pp. 755-758.

In this study the objective was to determine the effect of benomyl (Tersan 1991), dyrene and maneb (Dithane M-22 and Tersan LSR) upon the conversion of nitrogen in the soil from NH_4^+ (ammonium) to NO_3^- (nitrate). Nitrate is the form of nitrogen thought to be most readily utilized by the grass plant. Most slow release fertilizers initially release the nitrogen as NH_4^+ , and it must be converted by *Nitrosomonas* and

Nitrobacter bacteria to the utilizable NO_3^- form. Therefore, primary interest was in the effect of the fungicides upon nitrification (conversion of NH_4^+ to NO_3^-).

High rates similar to those that might be found over a seasons application of benomyl, dyrene and maneb produced varying effects upon the rate of conversion of NH_4^+ to NO_2^- (nitrate) and NO_3^- . Benomyl applications had relatively little effect upon the rate of nitrification, and 4 weeks after application absolutely no effect was evident. Dyrene inhibited nitrification more than benomyl. Ammonium (NH_4^+) conversion was significantly reduced by all rates of application of dyrene.

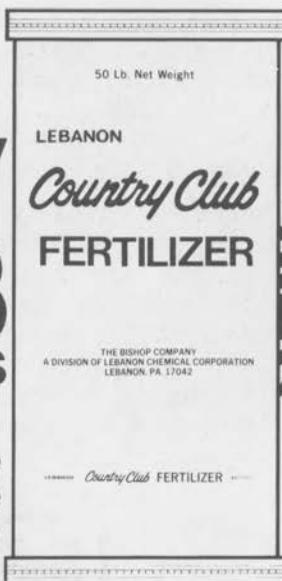
Continued on Next Page


**COUNTRY
CLUB**
TURF PRODUCTS

**A New Outside
Appearance - Same
Dependable Quality
Inside**



Good Names To
Grow By



Call your Country Club Distributor
or James L. Camp, (219) 485-6828.

At the high rate of dyrene application it took 8 weeks to convert the applied NH_4 to (NO_2 - + NO_3 -). Whereas with benomyl and plots receiving no fungicide the comparable rate allowed complete conversion of NH_4 in 2 weeks.

Maneb produced the greatest effect upon nitrification causing conversion of the applied NH_4 to NO_3 - to not be complete 16 weeks after fungicide application. Maneb completely blocked nitrification.

From a practical standpoint these data might explain intermittent chlorosis noted after heavy applications of maneb to turf. These fungicides may create chlorosis by effectively blocking nitrification and decreasing the supply of NO_3 - available to the plant. This slight chlorosis is acceptable from a practical standpoint because the fungicides provide very effective disease control.

Much fine research is being conducted on turfgrass throughout the United States in an attempt to increase our general understanding of how cultural, climatic, edaphic and geographic factors influence the turfgrass plant.

Continuous support of turfgrass research is essential to achieving increased understanding of the complex workings of nature.

STUDY GUIDES AVAILABLE

Pesticide Applicator Certification and Licensing. If you want to get a head start on studying for the upcoming FEPCA testing, I recommend the following preferences-

Apply Pesticides Correctly - Guide for Commercial Applicators - \$1.60

Apply Pesticides Correctly - Guide for Private Applicators - \$.90

Both for sale by:

Superintendent of Documents
U.S. Government Printing Office
Washington, D.C. 20402

IRRIGATION SPRINKLER PRODUCTS

EXCLUSIVE FRANCHISED DISTRIBUTOR
for

**RAINBIRD - NELSON
SAFE-T-LAWN / MOODY**

SUPPLIES

PIPE & FITTINGS

- PVC - Sewer & Drain (Corr)
- Polyethylene - Galvanized
- Copper - Aluminum
- Controllers - Valves

PUMPS & PUMPING STATIONS

SYSTEMS

COMPLETE IRRIGATION

- Systems Design
- Specifications
- Budget Estimates
- Consultations

Century Rain Aid

WHOLESALE DISTRIBUTORS

3890 W. Eleven Mile Rd.
Berkley, Mi. 48072
(313) 543-7730

22159 Telegraph Rd.
Southfield, Mi. 48075
(313) 356-9137



NOW YOU CAN PHONE US

FREE

for Fast Order Service

or Messages for our Sales Representative

quality products
for turf maintenance
since 1939



alfeo
INC.

P.O. BOX 267
MARIETTA, OHIO 45750

OHIO CUSTOMERS:
1-800-282-9714

ALL OTHER STATES:
1-800-848-9740
MICHIGAN REPR.
RALPH GRESS

TURF SUPPLIES INC.

6900 Pardee Rd., Taylor, Michigan
(313) 291-1200

DON'T EVEN *THINK*
OF BUYING

**GRASS SEED
FERTILIZERS
FUNGICIDES**

WITHOUT CALLING

291-1200

TURF SUPPLIES INC.

6900 Pardee Rd., Taylor, Michigan
(313) 291-1200

LAKESHORE

EQUIPMENT & SUPPLY CO.

DISTRIBUTOR & FORMULATOR

GRASS SEED - FERTILIZERS

INSECTICIDES - FUNGICIDES - HERBICIDES

REPLACEMENT MOWER PARTS

REPLACEMENT TIRES

LESCO Products

Price Quotation On Request

CALL OUR NEW OFFICE

300 So. Abbe Rd., Elyria, Ohio 44035

(216) 323-7544

MICHIGAN CUSTOMERS

Call Toll Free: (800) 321-7423



SMELT DIPPING . . . back when it was cool.

DR. JOHN KAUFMANN TO FILL VACANCY AT M.S.U.

I am most pleased to be able to announce the official acceptance, by the Board of Trustees, of Dr. John Kaufmann as a new staff member at Michigan State University. Dr. Kaufmann will assume duties in turfgrass research and teaching in the Department of Crop and Soil Sciences. He is expected to arrive in East Lansing on or about July 1.

John is no stranger to Michigan and is personally acquainted with many of you. He is a native of Illinois where he grew up on a farm. He received his undergraduate degree from Goshen College in Goshen, Indiana and completed his Ph.D under Dr. Beard in 1973. Upon graduation he joined the staff of Cornell University in Turf Science and comes to us from that position. I know you will all join me in welcoming Dr. Kaufmann and his family to our University and Turf Industry.

Sincerely yours,

D. D. Harpstead, Chairman
Department of Crop and Soil Sciences

The Green Machine.®



**The
tool
you can't
afford to
be without.**

The Green Machine can go safely where metal blades just can't be used, and in many applications, as much as 100 times faster. It's high-impact plastic head contains spools of nylon filament cord which is released as needed by the press of a button. It trims quickly around trees, fences, brick and stone barriers, walls and driveways. Amazingly, the whirling nylon cord reaches into crevasses and around obstacles without causing damage.

The Green Machine is the most versatile tool of its type on the market. You can use the accessory brush and saw blades to efficiently trim trees and large bushes, as well as for brush clearing, cutting back ground cover and hillside work.

In just a few minutes the Green Machine converts into the finest 30-inch hedge trimmer you've ever used. Bore holes up to six inches in diameter with the Earth Auger attachment . . . and with a flick of a switch the Green Machine/Earth Auger converts to a heavy-duty 1/2 inch drill.

The best way to convince your self of the value of the amazing machine is to give it a try under actual operating conditions. Call Lawn Equipment and arrange for a demonstration.



LAWN EQUIPMENT CORPORATION

520 W. 11 MILE ROAD ROYAL OAK, MICH. 48068
TELEPHONE: (313) 398-3636

NEW JACOBSEN® OUT FRONT COMMERCIAL



THE ALL NEW OUT FRONT COMMERCIAL FROM JACOBSEN . . .

Mow 30 acres per day in comfort. Climb curbs & travel to the next area at 14 miles per hour. Adjust the seat to suit the length of your legs. Use one foot pedal to move forward or reverse. Cut under overhanging branches and bushes . . . ring trees and forget about trimming. Use the steering assist pedal for a zero turning radius. The NEW Jacobsen Out Front Commercial does it all. Add a leaf mulcher in the fall. Drop the big 72-inch cutter deck and mount a rotary broom. Or a snow plow. Or a snow blower. There's a cab available so you won't get cold in winter. And the new Out Front Commercial is A.N.S.I. approved, Jacobsen wouldn't have it any other way. Call W.F. Miller and arrange for a demonstration . . . We'll prove this is one commercial that's right for you and your mowing conditions.

W.F. Miller Garden & Lawn
Equipment Company

1593 S. WOODWARD AVE. BIRMINGHAM, MICHIGAN 48011

TELEPHONE: (313) 647-7700

A PATCH OF GREEN
31823 UTICA ROAD
FRASER, MICHIGAN 48026



MICHIGAN STATE UNIVERSITY
LIBRARY - SERIALS
EAST LANSING, MICH. 48823