



The Bull Sheet

Official Bulletin

Midwest Association of Golf Course Superintendents



MEETINGS COMING UP:

ELMHURST COUNTRY CLUB — MAY 8,
EDGEWOOD VALLEY COUNTRY CLUB — JUNE 5,
BEVERLY COUNTRY CLUB — JULY 10,
PRESTWICK COUNTRY CLUB — AUGUST

IN THIS ISSUE:

NEW POLICIES FROM YOUR BOARD —
HELICOPTER SPRAYING REPORT —
SNOW EXPENSES —
ADVISORY COMMITTEE REPORT —
MAINTENANCE BUILDING STATISTICS —
KEEP OFF THOSE GREENS —

THE BULL SHEET, official publication of THE MIDWEST ASSOCIATION OF GOLF COURSE SUPERINTENDENTS.

TOM BURROWS, Editor
1648 Prairie
Northbrook, Illinois 60062

OFFICERS

President — Dudley Smith
First Vice President — Walter Fuchs
Second Vice President — Gerald F. Dearie
Secretary-Treasurer — Roy Nelson

DIRECTORS

Edwin Walenberg
Tom Burrows
Ed Braunsky
Harold Fredrickson
Oscar Miles
Adolph Bertucci

MIDWEST ASSOCIATION MEMBERS

This Bull Sheet is the second issue you will receive during April, 1967. It is necessary for the following reasons:

1. To enable you to receive your future Bull Sheet prior to the monthly meeting coming up.
2. To give advertisers full credit of their money already paid to the association.

In the future you should receive each issue during the last week of each month, dated prior to the month coming up. Your May, 1967 issue will be in your hands during the last week of April.

In the event you do not receive your Bull Sheet, or receive it late, check to see if your address and area code is correct. If everything is correct, please check with the postmaster in your town. If this doesn't help, please **write** the editor.

ADVERTISERS

The editor will be seen concerning advertisements by telephone appointment only: Phone 272-6265 after 6:00 P.M.

NEW MEMBERS

Arthur C. Clesen, Jr. — Wheeling — EE
David C. Feser — Lombard — D
Wayne Trometer — Midlothian — EE
Howard R. Smith — Waukegan — A
Donald N. Nisser — Geneva — D
Edward G. Devinger — Mt. Prospect — EE



Dudley Smith — President

NEW POLICIES FROM YOUR EXECUTIVE BOARD

Members are encouraged to attend all monthly meetings. Article II, Section 5 of our By-Laws reads, "a member may be expelled or suspended for the following reason: **failure to attend a meeting for a period of six months.** Expulsion or suspension of a member from this Association shall be by unanimous vote of the Executive Committee. Ted Woehrle will record your attendance at future monthly meetings to execute this By-Law.

New Members

The name of prospective member and his two sponsors will appear in the Bull Sheet prior to his acceptance as a member by the Executive Committee. Any objection by our members of the prospective member's qualifications may be voiced in a signed letter to the President within ten days after receiving the Bull Sheet. Any objections received will be heard by the Executive Committee prior to the candidate's acceptance.

Dudley Smith

COMING MEETINGS

May 8 — Elmhurst Country Club.
June 5 — Edgewood Valley Country Club.
July 10 — Beverly Country Club.
August — Prestwick Country Club.

GCSAA CLASSIFICATION CHANGE

Any member desiring a National Association membership classification change should **write** to the National Headquarters, requesting the change. This is a By-law requirement.

THE MIDWEST REGIONAL TURF CONFERENCE

Purdue University, LaFayette, Indiana
March 6, 7, 8, 1967

Forty-six Midwest superintendents attended.

Julius Albaugh, Mike Bavier, Adolph Bertucci, Peter Bilt, Robert Breen, Tom Burrows, Vern Burton, Joseph Canale, E. W. Cassier, Gerald F. Dearie, Gerald M. Dearie, Tom DiGuido, Frank J. Dinelli, Paul DuBeau, George Druzisky, John Ebel, Harold Frederickson, Walter H. Fuchs, G. T. Gilman, Bill Hargrave, Carl Hopphan, Walter Hoyt, Benn Kronn, J. C. Lapp, W. Leith, Ken Lapp, Amos Lapp, Marcus E. List, E. A. Mashie, Lester Mach, W. Mueller, H. G. Michels, Fred Opperman, Dudley Smith, Ted Sekolis, Bruce Sering, Walter Simon, Howard Smith, Reuben Thomas, Howard Torkelson, Dick Trevarthan, Ted Woehrle, E. Wollenburg, K. R. Zanzig.

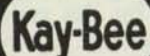
Increase in Conference Attendance:

1938 - 40	1956 - 485
1940 - 100	1958 - 536
1943 - 46	1960 - 601
1946 - 213	1962 - 597
1950 - 338	1964 - 580
	1966 - 635

Publications available:

- No. 5 - An appraisal of merion bluegrass
- No. 10 - How does Zoysia look for Midwestern Lawns
- No. 16 - Soil Tests from turf areas
- No. 17 - Turfgrass literature reference
- No. 18 - Ideas about building a golf course
- No. 20 - Bermudagrass use in the Midwest
- No. 24 - Tall Fescue in lawns
- No. 28 - 33 - Electrically warmed soils for sports turf
- No. 32 - Maintenance of bentgrass
- No. MN66-3 - I'm tired of Poa Annua

Write to: Department of Agronomy,
Purdue University, LaFayette, Ind. 47907



PROFESSIONAL SERVICE
for the
PROFESSIONAL TURF MANAGER

NEW STOCKS

- BENT SEED—all kinds and varieties carried in stock. Highest purities and germinations.
- FERTILIZERS—a wide range of analyses.

Organics
Organic Base
Urea-Formaldehyde base
Chemical

All available in pelleted or conventional form.

KAHN BROS. CO.

CHICAGO, ILL

BO 8-0640

EXCELLENCE IN SERVICE SINCE 1893

PRECISION BLENDED TOP DRESSING

Custom blended to your specifications by our modern equipment.

*Buy when you need —
Eliminate costly storage*

We sell an air dried, uniform and free flowing top dressing.

ASK THE MAN WHO HAS USED IT.

HUMUS - BLACK SOIL

HENRY FRENZER

Area Code 312
658-5303

620 Webster St.
Algonquin, Ill.
60102

MULCHING?

Park Ridge C. C. constructed three new greens last fall using Toronto (C-15). The greens were allowed to harden off naturally until December when three different mulches were applied in an attempt to reduce winter desiccation and force growth during early spring. One green was covered entirely with a 3/16 inch fiber glass mulching material. Another green was completely covered with polyethylene. The third green was divided, one half was covered with a 4 inch layer of slough straw leaving the remaining half open as a check. An open invitation is extended to anyone interested in observing the April results, whether bad or good. . . .

Jerry Cheesman

CLASS A MEMBERS

The Midwest Association Class A membership continues to grow:

1960 - 97	1964 - 121
1961 - 102	1965 - 130
1962 - 108	1966 - 132
1963 - 113	1967 - 133 As of March 1, 1967

FERTILIZING TREES

The December, 1966 "Golf Superintendent" magazine has an excellent article on, "Guide for fertilizing shade and ornamental trees", by the National Arborist Association.

AQUA-GRO QUALITY BLENDED WETTING AGENT
AQUA-T LOW COST BLENDED WETTING AGENT
STOMA-SEAL CHEMICAL CONTROL OF WILT
AQUA-GRO GRANULAR CONVENIENCE OF APPLICATION

SILVER NUGGET

The pessimist sees the difficulty in every opportunity; the optimist, the opportunity in every difficulty.

CLEARY PRODUCTS FOR BETTER TURF

PMAS — Crabgrass and Turf Disease Control
CADDY — Economical and Effective — Liquid Cadmium Fungicide
SPOTRETE — 75% Thiuram Fungicide
"THIMER" — A broad-spectrum wettable powder fungicide and crabgrass killer containing phenyl mercury and thiram.
"METHAR" — Disodium Methyl Arsonate (DSMA) in wettable powder (highest concentrations) and liquids.
"SUPER METHAR" — The new "AMA" liquid crabgrass killer.

CLEARYS MCPP

For selective control of Chickweeds, Knotweeds, Clover, Dandelion, or Plantain in Bentgrass Greens and Fairways as well as Bluegrass, Fescues, and their mixture.

"ALL WET"

Added to Water Obtains Quicker and Deeper Penetration
 Retains Moisture, Prevents Dew

W. A. CLEARY CORPORATION
 NEW BRUNSWICK, N. J.

TO THE MIDWEST MEMBERS

Re: Flower Show

For the last several years members of the Midwest Golf Course Superintendents' Association and other people in the Chicago area in the turfgrass industry have contributed a great deal of time to the maintenance and "Manning" of the University of Illinois and Illinois Turfgrass Foundation, Turfgrass Information Booth at the World Flower Show. I believe that this activity as much as any other has helped to put the turfgrass interest before the general public. This booth has certainly proven to be a very good means of public relations and public service for the gardening public in the Chicago area as well as in the Midwest.

I realize that in many cases this has been a rather great sacrifice of time on the parts of the superintendents and other people who have helped to man the booth. However, I believe that in some part that those who have participated have come out ahead by realizing the problems of the homeowner and the great concern that these people have for keeping a beautiful lawn. I would like to thank all of those who have helped for the past several years in making the total display an award-winning one. **Thank you very much.** — Dr. Jack Butler.



Dr. Dan Wiersma

"KEEP OFF THOSE GREENS"

By. Dr. Dan Wiersma

The golfer and the gardener have much in common, they can hardly wait for spring to get outdoors and practice their art. The gardener spends hours with his seed catalog while the golfer practices his putting on the living room floor. But hold it! They both need a word of caution in getting out too early in the spring. A few days too early may cause difficulty and problems for them the remainder of the summer.

The problem is really very basic and is primarily aeration and compaction in the soil. The soil is made up of solid particles which are arranged randomly to form pores or spaces. In these pores are water and air. The plant roots need both of these to grow and thrive. However, the entire soil system is rather complex. The warning we want to give is, when the soil is moist such as in the spring, any manipulation such as tillage or trampling by the golfer causes these soil particles to become packed together and thus causes the soil pores to become smaller and smaller. This makes an unhealthy condition for the plant root—it can't breathe for lack of oxygen. Then too, when watering becomes a problem, the pores are so small, the water intake rate will be very low.

So just wait a few more days until the soil is in better condition—and you will enjoy better golf greens all summer long—and better gardening too.

Dr. Dan Wiersma is a native of South Dakota, received B. S. from South Dakota State University, served 4 years in the Armed Services, County Extension Agent in western South Dakota for 6 years, M.S. from University of Wyoming, and Ph.D. in Soils from University of California. Has been in the Department of Agronomy at Purdue University since 1956 working in the area of plant-soil-water relationships including irrigation. Presently Director of the Purdue University Water Resources Research Center.

The noblest charity is to free a man from having to accept charity. — The Talmud

UNIVERSITY OF ILLINOIS URBANA, ILLINOIS

Reprint from **Weeds, Trees & Turf**

Turf training at the University of Illinois is a cooperative effort between the Department of Horticulture, Plant Pathology, and Agronomy. Under the direction of J. D. Butler, Assistant Professor in Turf Management, Illinois' program offers a six-week Winter Short Course, with a certificate given, and a four-year undergraduate course leading to a B.S. in ornamental horticulture, turf management major.

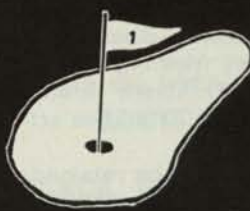
Undergraduate study has evolved over a 10-year period, while graduate study began about five years ago. Planned for 1968 is an advance six-week short course to up-date trained turfmen in latest developments.

Short Course enrollment is about 18, with high school graduation required and work in the turf field preferred. In 1967, the course began Jan. 30 and runs until Mar. 10. Information on future courses can be obtained from the Director of Short Courses, College of Agriculture. Course tuition is \$35 for Illinois residents and \$140 for non-residents.

Undergraduate students in turf management currently number 10. Admission is possible several times during the year, and requests for information should be directed to the Registrar, University of Illinois. Tuition and fees for the four-year program amount to \$135 per semester for residents and \$425 for non-residents. Graduate admission is by special arrangement.

Turf instructors at Illinois are Drs. T. K. Hodges, D. P. Taylor, M. C. Shurtleff, F. W. Slife, and J. D. Butler.

TORONTO C-15 BENT SOD & STOLONS



"PURE TO STRAIN"

GROWN ON STERILIZED SOIL TO INSURE FREEDOM FROM POA ANNUA AND OTHER FOREIGN GRASSES.

PENNCROSS BENT SOD



H & E Sod Nursery, Inc.
4301 W. Flossmoor Rd.
Tinley Park, Illinois
312 798-2210

growing
our way



It's easy . . . with Darling's complete line of top quality turf and garden foods. Now, you can select the proper product "balanced" for every turf feeding. Darling's soil builders are pelleted for better, more even distribution. They won't burn when used according to directions . . . and they're formulated specially for the job to be done.



DARLING'S

Darling & Company / Lawn & Garden Division
4201 S. Ashland Avenue • Chicago, Illinois 60609



Darling's keeps fairways, greens, trees and shrubs in top condition . . . looking beautiful all through the growing season. Look to Darling's for the complete line of balanced, pelleted, turf and garden foods . . . and you'll be "growing our way". Darling & Company is centrally located . . . no delivery problems . . . no missed schedules . . . fewer lost days.

To: Advisory Committee Delegates
Paul Voykin, Delegate
Tom Burrows, Alternate Delegate
FROM: Ben J. Chlevin, Executive Director
RE: 1967 Advisory Committee Recommendations and Executive Committee action

For your files, the suggestions discussed at the Advisory Committee Delegates Meeting on February 6 and 7, 1967 in Washington, D. C. are listed below, along with the GCSAA Executive Committee action on each.

1. That a Public Relations Firm be retained on an annual basis. **Moved** by President Emeritus Roberts, seconded by Director Blake, to refer Item No. 1 to Public Relations Committee for study. Motion carried.
2. That in the future, the previous year's figures be shown with the current report (in the audit report). **Moved** by Director Blake, seconded by Director Mitchell, to include previous year's figures with current ones in all future audit reports. Motion carried.
3. That we try to obtain the same travel allowances the public links are permitted. **Moved** by Director Nisbet, seconded by Director Kramer, to return subject as it applies to annual GCSAA Golf Tournament to the Golf Committee for action. Motion carried.
- *4. That an annual luncheon be held at the GCSAA Conference for the editor of THE GOLF SUPER-INTENDENT and the Editors of the Chapter Newsletters. **Moved** by the President Emeritus Roberts, seconded by Director Kramer, that the **Executive Director** implement a luncheon or dinner meeting at next year's Conference between GCSAA Managing Editor and Editors of Newsletters of GCSAA affiliated chapters. Cost to be borne by those in attendance. Motion carried.
5. That the Executive Committee investigate the feasibility of revising and expanding the GCSAA Job Referral Service so that it might be of genuine service to qualified GCSAA members. **Executive Director** is directed to implement this request and prepare such revision by Executive Committee Spring Meeting.
6. That the CMAA Job Referral Service be used as a general guide. **Referred** to Item No. 5 —Action taken.
7. That we have a Membership drive instead of possibly having to raise dues. **Moved** by Director Kramer, seconded by Director Mitchell, to refer this request to Membership Committee. Motion carried.
8. The GCSAA present an award to the Chapter with the greatest percentage increase in National membership. **Executive Committee** feels an award of this type is not feasible. However, the Executive Committee directs the Executive Director to make up a "score card" for GCSAA Newsletter, registering by Chapter, the percentage increase of national members throughout the 1967 year.
- *9. The Executive Committee look into improving the overall service during the "Get Acquainted" Party. **Moved** by Vice-President Brandt, seconded by Director Mitchell, to improve bar service at the San Francisco Conference. Motion carried.

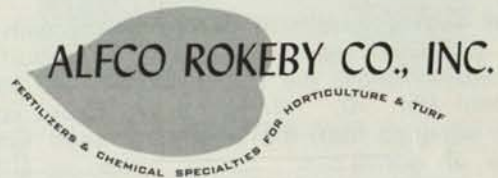
for

HEALTHY TURF & MAGNIFICENT GREENS
at **LOWER COST** and with a minimum of effort!

Try our —

FUNGICIDES, HERBICIDES, INSECTICIDES
LIQUID & SOLUBLE FERTILIZERS
WETTING AGENTS

WE SHIP DIRECT! IN BUSINESS SINCE 1939.



phone 373-1394 p. o. box 267 MARIETTA, OHIO 45750

10. The Executive Committee thoroughly check out the Advance Housing Registration procedure. Host Chapter members to be alerted about problems experienced in the past, and a request for more assistance by Host Members during hotel reservations for the 1968 Conference.
11. That the date of December 1st, of the year preceding the annual Conference be fixed as the deadline for the submission of names of delegates and items for consideration to the Advisory Committee. **Moved** by Director Kramer, seconded by Director Blake to accept this recommendation and implement same. Motion carried.

* Suggested by The Midwest Association

A recent check with C. E. (Scotty) Stewart indicates that there is considerable activity in the golf course irrigation installation field.

Scotty reports he has the following irrigation systems ready for spring completion or ready to start on when the weather permits:

Riverside Golf Club
Elgin Country Club
Tuckaway Country Club — Milwaukee
Playboy Club — Lake Geneva
Belmont Club — Toledo
Parsons College Golf Course, Fairfield, Iowa
Cog Hill Golf Club (#2 Course)
Cog Hill Golf Club (#1 Course)
Glenwoodie Golf Club
Northwest G. Club (Morton Grove)
Winnetka Golf Club — Winnetka, Ill.

All of the above are manually controlled irrigation systems with the exception of Riverside G. C. which has automatic green and tee watering.

The Oldest and Largest Tree Service in the World

— COMPLETE TREE CARE —

Pruning
Spraying
Feeding

Tree Planting
Tree Removals
Inspections

DAVEY TREE EXPERT CO,

L. F. IRVINE — H. J. OTTO
District Mgrs.

Arlington Heights

P. O. Box 325

437-4080

THORNTON'S TURF NURSERY

Rt. 2 Box 72, Elgin, Illinois
a/c 312-742-5030

- WINDSOR - MERION - KENTUCKY BLUEGRASSES
- C-15 SOD and STOLONS
- PENNCROSS SOD

Phone: 312 669-5452 or 312 669-5771

LOUIS SCHACHTNER

Distributor

BLACK DIAMOND HUMUS SOIL

HUNTLEY, ILLINOIS

ROSEMAN

2620 CRAWFORD AVE. UN 4-1842
EVANSTON, ILLINOIS

TURF EQUIPMENT HEADQUARTERS

ROSEMAN GANG MOWERS

FORD TRACTORS

TILLER RAKES

LELY SPREADERS

SNOW PLOWS

ARPS TRENCHER

ROYER SHREDDERS

PAR AIDE PRODUCTS

SEEDERS

LOADERS

ROTO TILLERS

ROTARY MOWERS

SALES ● SERVICE ● PARTS ● RENTALS

"DESIGN OF BUCKNER AUTOMATIC
GOLF COURSE SYSTEMS"



Sprinkler Irrigation Supply Co.

650 Roosevelt Rd., Glen Ellyn, Ill.

GLEN ELLYN
HO 9-8730



MORE AND MORE MID-WEST GOLF COURSE SUPERINTENDENTS
ARE SWITCHING TO IMC FERTILIZER PRODUCTS. YOU, TOO,
CAN ENJOY OUTSTANDING RESULTS AT NO INCREASE IN COST.



Our Turf Specialists Are At Your Service!

INTERNATIONAL MINERALS & CHEMICAL CORP.

Skokie, Illinois

Phone YO 6-3000

THE SEQUESTERED FERTILIZERS



"Can't stop now, I have to get the cup
in before this Fertil-Ade green closes
the hole."

FERTIL-ADE and AQUA-SOL

For 15 years Golf Course Superintendents
have relied on Fertil-Ade or Aqua-Sol for
Better Greens that stay Better.

FERTIL-ADE, LIQUID

No. 1 10-8-6

No. 2 10-8-6 with extra chelated iron.

No. 4 15-0-7½

No. 5 15-0-7½ with extra chelated iron.

INSTANT AQUA-SOL

25-10-20 This ratio of analysis scored
"Most Likely for best growth of lawns,
trees and flowers."

Distributed by: George A. Davis, Inc. - R. L. Ryerson

SMITH EQUIPMENT and SUPPLY CO.
1615-21 N. Central Ave. • Chicago 39, Illinois

**IT'S EASY
TO HAVE
GOOD
FAIRWAYS
WITH A
RYAN!**

GEORGE A. DAVIS, INC.
5440 Northwest Highway - Chicago 30, Ill.

1967 U.S.G.A. GOLF RULE CHANGES

By Oscar Miles, Golf Chairman

The United States Golf Ass'n. has made the following changes in the Rules of Golf, 1967 since the 1966 edition, quote:

*Appendix—Local Rules

Local Rules—Saving Time on Putting Green

Rule for stroke play

1. Continuous—putting amended as follows:
 - (a) Penalty for breach reduced from two strokes to one stroke.
 - (b) Recommendation that Local Rule not be adopted for four-ball and best-ball stroke play.
2. One clean Rule for stroke play and Match Play—Penalty for breach reduced to one stroke in both stroke play and match play. Formerly penalty was: Match play—Loss of hole; Stroke play—Two Strokes.

Rules of Amateur Status

Rule 1-13 Expenses:

Tightened to prohibit acceptance of private transportation furnished or arranged for by a tournament sponsor as an inducement to engage in a golf competition or exhibition, unquote.

If you need further clarification of these U.S.G.A. Golf Rules changes I suggest you get a copy from your club professional and read the rules and discuss it with him.

*Reprinted from the U.S.G.A. "The Rules of Golf, 1967."

"THE EXPRESSWAY"

Benny Kronn tells us that his new maintenance building at Twin Orchard C. C. was started February 28 and is scheduled to be completed around May 1. The building is L-shaped, 130 x 120 x 50, concrete block and concrete roof. . . Fred Opperman at Elmhurst C. C. will have his newly constructed #16 tee and 16 green open for play around June 1. . . Congratulations to Roy Nelson on his outstanding talk given at the Purdue Midwest Regional Turf Conference March 6. . . Bill Leith at Elgin C. C. will have his 18 hole tee-green-fairway irrigation system completed this spring. C. E. Stewart designed and Mullermist Company installed the system.

George Druzisky at Thorngate C. C. tells us that his club will host the C. D. G. A. Ladies Pro-Am tourney on July 27. . . John Hooper, Smith-Douglas representative became a father for the first time in February, a 6 pound 10 ounce son, congratulations John! . . . Bob Kronn, a Penn State graduate in 1964 has one more year in Germany with the U. S. Army. . . John Ebel at Biltmoor C. C. has recently started a \$150,000.00 renovation program. John will have an article for us in the May "Bull Sheet". . . Congratulations to Jerry Marlett, Northmoor C. C. manager who was recently elected to the Executive Board of the National Club Managers Association. . . The Midwest educational committee has tentatively scheduled the 1967 Fall Turf Clinic at Medinah C. C. on November 28 and 29. . . Entertainment Chairman Harold Frederickson, asked for a raise of hands at our last monthly meeting for those interested in a picnic during the coming season. Only 15 out of 80 were interested.

"The Lockerroom", Charlie Barlett's column in the Chicago Tribune, said a few weeks ago that Paul Voykin is going to be the author of a lawn book for the homeowners. . . Oscar Miles attended the Penn State Annual Turf Conference during the latter part of February and tells us it was a 100% success. . . Dr. Joe Duich hopes to see more Chicago superintendents at their 1968 conference. . . Bill Brickle, Vice-President of the Indiana Superintendents Association said that their membership has grown from 55 members to 85 during the last two years. . . Tom Gilman at Riverside C. C. now has his automatic green and tee, and manual fairway irrigation system completed and will be tested around May 1. . . C. E. Stewart designed and Mullermist Company installed the system. . . The Green Bay Packers may install soil warming system in their stadium. . . Association membership and By-Laws booklets for members will be printed annually hereafter. In the past they were printed every two years. . . Midwest Association emblems for sport coats are available through the chapter secretary—(no charge, 15 remaining). . . Peter Voykin, our 1966 Association golf champion is currently checking out landscape designs for the fabulous new Idlewild C. C. clubhouse.

GOLD NUGGET

When the long day is done, it is quite frequently exasperating to find out that nothing else is.

LANDSCAPE PUBLICATION

L. T. Whitlock, Research Assistant at the University of Illinois reports that a landscaping publication for golf courses will be available around February, 1968. The Publication, by Mr. Whitlock and Mr. Wm. Nelson* will be the first known text directly for golf courses.

Mr. Whitlock recommends the following as some of the better species of trees suitable for golf course plantings:

Sugar Maple, Red Maple, Green Ash, Thornless Honey Suckle, Pin Oak, American Linden, Wild Black Cherry.

Faster-growing species are: White Birch, Sycamore, Weeping Willow, European Larch.

* Mr. Wm. Nelson—author of a publication "Home Landscaping"—available at the University of Illinois.



Picture: front row l. to r. Fred Opperman, Elmhurst C. C.; Bob Williams, Bob O'Link G. C.; Tom Gillmon, Riverside G. C.; Gerald Dearie, Jr., Medinah C. C.; Art Benson, Jr., Butterfield C. C.; back row: Jerry Dinelli, Northmoor C. C.; Marv Gruening, Midwest C. C.; Vic St. Aubin, St. Aubin & Bro. Nurseries; Ray Schei, Acacia C. C.; Pete Wagner, Butterfield C. C.

HELICOPTER SPRAYING

Good Friday 1967 marked a first in the Chicago area in the use of a helicopter to be used for the spraying of trees and turf on a golf course. Clarke Outdoor Spraying Company, a firm from La Grange has started to use a helicopter for the control of Dutch Elm disease.

Elmhurst C. C. has contracted the outfit to spray their Elms this coming year. On Friday, March 24, the firm was to start the program but "Mother Nature" provided the rain that cancelled the actual spraying of the Elms. Some of the surrounding Superintendents from the area were present to observe this new attack to combat the Elm disease. Since a group was at the club, Mr. Clarke agreed to go ahead and give a demonstration but just use water and green dye.

The spraying of the Elm trees looked good and would have been better if the weather hadn't been so lousy with the constant drizzling and wind. The advantages to such a program, whether it be for trees or turf, would be the flexibility, cost, time and the ease of application. Spraying my 275 Elms the job would require about two hours compared to the 28 to 30 hours by a mist blower or hydraulic sprayer. The trees could be sprayed at any time the wind was under 10 mph and with no rain in sight. It could be done with the ground flooded (the way I am at this time of the year) or too wet to get the equipment out at the time it needs to be sprayed. Another good point, the spray is coming from above and covering the young growth and the crotches where the beetles seem to favor. Plus the cost factor is cut in half, at least in my case it proved to be.

The disadvantages and dangers of spraying by helicopters would be the drift of the material on to sensitive trees such as hard maples, evergreens, and say Mountain Ash. The pilot would have to be very careful in his application. This procedure may not be perfected yet, but at any rate I feel it is a step in the right direction.

The thing that impressed everyone the most was the way a helicopter could be used to spray the turf. We staked white paper plates across a thirty foot area and the helicopter made a pass over it. The spray pattern showed up quite well and had very good coverage. The helicopter was 3 - 4 feet above the ground, traveling at 35 mph and the drift was negligible. Can you imagine having your fairways sprayed in about an hour's time? It can be done. This is what we need to help combat the labor shortage.

Fred Opperman
Superintendent
Elmhurst Country Club

WASHINGTON and TORONTO (C15) STOLONS

S O D F O R A N Y S I T U A T I O N

MERION AND KENTUCKY BLUE GRASS.

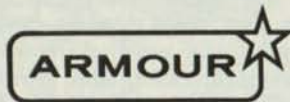
CREeping BENT, FESCUE OR

MEYER (Z52) ZOYSIA

WARREN'S TURF NURSERY

8400 W. 111th STREET :-: Phone: GIBSON 8-7200

PALOS PARK, ILLINOIS



"For professional turf"

To keep your course in championship condition, look to Armour for a complete line of golf course fertilizers and Turf Protection Products. "For Professional Turf" is the real reason for the rapid success of the Armour Turf Program. Verta-green Tee-Green, Tournament, Vertanite, and Vertagard Turf Protection Products—every product recommended as part of this new program is made ESPECIALLY for professional golf turf. The new Armour Turf Program is the answer to keeping your course in professional shape. And, every product is backed by reliable Armour Research and the services of experienced Armour representatives. One of them will be by to tell you more, but if you are as anxious as the rest of the "pros", just drop a line to:

ARMOUR TURF PROGRAM

P. O. BOX 1685 • ATLANTA, GEORGIA 30301

SNOW EXPENSES

The 18 inches of snow on January 26 and the 8 inches of snow on February 5 cost the following:

South Side expenses reported by Harold Frederickson.

Olympia Fields C. C.	690.00 Labor
	350.00 Equipment
Hickory Hills C. C.	500.00 Labor
	175.00 Equipment
Beverly C. C.	560.00 Labor
	196.00 Equipment
Flossmoor C. C.	300.00 Labor
	50.00 Equipment
Prestwick C. C.	190.00 Equipment
West Side expenses reported by Fred Opperman.	
Brookwood C. C.	445.00 Labor
	10.00 Equipment
Medinah C. C.	490.00 Labor
	35.00 Equipment
	450.00 Evergreen Damage
River Forest C. C.	670.00 Labor
	145.00 Equipment
Midwest G. C.	600.00 Labor

North Side expenses reported by Bruce Sering.

Total cost for labor and equipment over and above their planned operation.

Bob O'Link G. C.	50.00 Labor
North Shore C. C.	250.00 Labor
Park Ridge C. C.	180.00 Labor
	70.00 Equipment
Skokie C. C.	400.00 Labor
Westmoreland C. C.	205.00 Labor
Thorngate C. C.	225.00 Labor
	180.00 Equipment

Northmoor C. C.	300.00 Labor
Evanston G. C.	200.00 Labor
	600.00 Equipment
Exmoor C. C.	300.00 Labor

SPEED BLUEGRASS SPROUTING

By Dr. Robert Sherry — Director Lawn Institute

It's a lot more trouble, but you can start lawnseed indoors and then sow it on a prepared seedbed outdoors. Keep the seed moist in a plastic sack, perhaps mixed with an equal amount of peat or vermiculite. Kentucky bluegrass will start sprouting in about a week if left in the corner of a heated room. Fine fescues (Chewings, Illahee, Pennlawn and High-light) may be even a little faster. But once sprouting has begun there is no turning back. Damp seed can be mixed with additional dry peat or vermiculite to facilitate sowing. Outdoor cold won't injure started seed, but of course sprouting slows down and a loose soil is critical for rooting. Considering the extra effort and fine timing, most people prefer sowing fine-textured lawn blends directly to the seedbed, even though sprouting will not be quite so fast as with seed started indoors.

Mulching New Seeding

Lawnseed, to sprout readily, needs both warmth and moisture. Spring brings warmth, but if you want your new bluegrass-fescue lawn in a hurry, better mulch. A mulch holds humidity at the seedbed surface. Garden stores carry weed-free manufactured mulches, or in rural areas perhaps clean straw can be had.

"Statistics From Survey of Seven Recently Constructed 18 Hole Golf Course Maintenance Shops In The Greater Chicago Area"*

by **Oscar L. Miles**
Golf Course Superintendent
Olympia Fields Country Club
Olympia Fields, Illinois

*Golf Course Superintendents participating:
 Mr. Paul Voykin, Briarwood Country Club
 Mr. Robert Williams, Bob O'Link Golf Club
 Mr. Jerry Cheesman, Park Ridge Country Club
 Mr. Frank Dinelli, Northmoor Country Club
 Mr. Edward Duehr, Midlothian Country Club
 Mr. Bruce Sering, Evanston Country Club
 Mr. Oscar Miles, Olympia Fields Country Club

Item Description	Steel (Average)	(Average) Block and Brick	Minimum Recommendation
Equipment & Fertilizer Storage Area	6149 sq. ft.	3914 sq. ft.	6000 sq. ft.
Mechanical Repair Shop	1806 sq. ft.	1033 sq. ft.	1350 sq. ft.
Locker or Lunch Room	233 sq. ft.	293 sq. ft.	300 sq. ft.
Restroom	82 sq. ft.	113 sq. ft.	100 sq. ft.
Superintendents Office	203 sq. ft.	260 sq. ft.	300 sq. ft.
Steam Cleaning & Paint Room	229 sq. ft.	2 reporting	300 sq. ft.
Fireproof Oil & Grease Room		45 sq. ft.	1 reporting 100 sq. ft.
Total Floor Space	8705 sq. ft.	5613 sq. ft.	8400 sq. ft.
Other Important Information:			
Outside Vehicle Parking Area	5595 sq. ft.	5160 sq. ft.	
Type of Insulation in Heated Areas	3" Fiberglass Rolls	Blown Fiberglass on Ceiling	
Spec's of Concrete Slab	4" - 6" Reinforced on sand fill	4" - 6" reinforced on sand or gravel fill	
Exit Door Size	12' x 10' & 12' x 14'	same	12' x 14' Overhead
Number of Exit Doors	4 - 8	4 - 6	6
Type of Heating System	3 with forced air, one with hot water radiant heat from floor, 1 also had office & locker room electrically heated	3 with forced air	
BTU Output of Heating Units	88000-125000	100,000 - 200,000	
Average Total Cost	\$6.40 per c. ft.	\$8.43 per sq. ft.	

THE INTRINSIC EVIL OF SOMETHING FOR NOTHING

The above, as many of our readers know, was the title of a subject ably covered by Charlie Wilson of the Sewerage Commission at the Midwest Regional Turf Conference, as an agenda we offer the following timely article on "free-engineering".

The National Society of Professional Engineers opposes the providing of engineering services in any manner which makes it appear as though engineering is being done on a gratis basis, or with the implication that there are no engineering costs.

"Free Engineering", the practice of concealing charges for providing engineering services or feasibility studies incidental to the furnishing of materials, equipment, service facilities and/or construction, (beyond the normal supplying of technical assistance and application data), is not to the best interest of the Owner because this practice tends to restrict competitive bidding and may result in the inclusion of materials, equipment, service facilities, and/or construction not best suited to the project, it encourages conditions under which engineering services may not be complete, objective, or to the Owner's best interest, and deprives the Owner of direct control and full benefit of engineering services for which he pays.

The National Society of Professional Engineers believes that the Owner's and public's interest is best served by a full disclosure of the total costs of pro-

viding service, and that when engineering services are provided in any form, other than the furnishing of technical data by manufacturers and agents only as required for the proper application of their equipment or products, the charge for such engineering services should be separately proposed and invoiced by the party providing such engineering services. An appropriate charge should be made when engineering services are performed whether the project is constructed or not.

C. E. (Scotty) Stewart

If you give a person bread he has enough to eat for a day.

If you teach him a trade he may have bread for a lifetime.

Is America's abundance made possible by her democracy, or is her democracy made possible by her abundance?

BURDETT'S, INC.

Seeds • Fertilizers • Golf Course Supplies
Swift Road at North Avenue
P. O. Box 186 Lombard, Ill. 60148
Phone 312-629-1123



AGRICO COUNTRY CLUB

12-4-8

(25% Organic Nitrogen)

10-6-4

(50% Organic Nitrogen)

Uramite and NuGreen
Rainbird & Nelson
Sprinklers and Valves
Myers Sprayers and Pumps
All Insecticides and
Fungicides
Weed Killers —
Soil Sterilents

PROMPT SERVICE

ILLINOIS LAWN EQUIPMENT, INC.

OF

ORLAND PARK, ILLINOIS

14750 LA GRANGE RD.

U.S. RT. 45

Area 312-349-8484

"For the Finest in Turf Maintenance equipment and Supplies"

WE ARE NOT THE BIGGEST BUT WE TRY THE HARDEST.

ASK FOR OUR CATALOG

Bob Johnson

Pete Vandercook

Wayne L. Trometer

Ask about our complete line of Turf Products for all Golf Course Maintenance.



RUSSELL L. FISHMAN

321 Lambert Tree Road, Highland Park, Illinois

C. E. STEWART

Civil Engineer

Irrigation, Drainage, Water Supply, Pumping Plants
Design — Reports — Consultation — Supervision
18357 Homewood Ave. Homewood, Illinois

Take advantage of one of the most experienced names in golf course

IRRIGATION

BOTH AUTOMATIC and
MANUAL SYSTEMS

MILLER SPRINKLING SYSTEMS

DIVISION OF A. J. MILLER, INC.
Since 1925

650 Roosevelt Rd. Ste. 213
Glen Ellyn, Illinois 60137
A/C 312-HO 9-8730

1320 N. Campbell Road
Royal Oak, Michigan 48067
A/C 313-398-2233

MILLBURN Peat Moss

SAVES TIME! SAVES MONEY!
PROMPT DELIVERY ON BULK TRUCKLOADS

Write, or phone collect: (A/C 317) 583-4411 for details
MILLBURN PEAT CO., INC. P. O. BOX 297 OTTERBEIN, INDIANA

Tel. LE 7-2177

ARTHUR CLESEN

I.M.C. Plant Foods

TERRA-GREEN

Pioneer Chain Saws

Regular & Jumbo

CLEARY'S TURF SPRAYS

611 So. Wolf Rd.

Wheeling, Ill.

EVERSPRAY CO.

• UNDERGROUND LAWN SPRINKLING SYSTEMS
IRRIGATION EQUIPMENT
AND SUPPLIES

GEORGE WELLEK

9250 GOLF ROAD
DES PLAINES, ILLINOIS
296-5555

MILORGANITE

USED AND PREFERRED BY
GOLF COURSES EVERYWHERE

ASPHALT DRIVEWAYS - PARKING LOTS - ETC.

"Golf Course Work a Specialty"

LEMONT PAVING CO.
(RAY MURPHY TRUCKING)

115th & Archer Ave. (Rt. 4-A) — Lemont, Illinois
RAY MURPHY CL earwater 7-6701

Nels J. Johnson, Tree Experts, Inc.

SINCE 1930

Complete, economical tree service for Private Estates, Parks, Municipalities, Golf Courses Cemeteries, Schools, Industrial Areas.

All phases of Arboriculture, Diagnosing, Pruning, Treating, Transplanting, Fertilization, Hydraulic and Mist Spraying, Removals, Stump Routing, Municipal Forestry.

— FULLY INSURED —

GRADUATE FORESTERS • LICENSED ARBORISTS

MAIN OFFICE: 912 Pinner Avenue, Evanston, Illinois

Phones: GR eenleaf 5-1877 — GR 5-5255

Hinsdale, Illinois — FA 5-0970