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December 1976



A PATCH of GREEN

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

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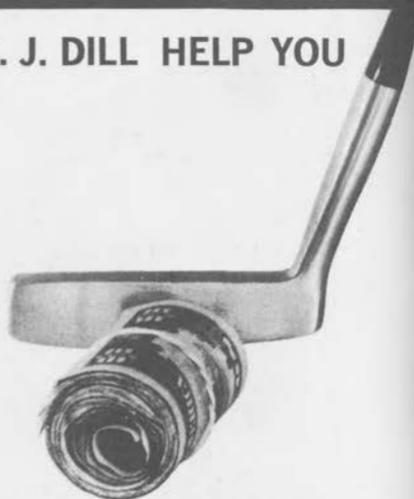
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"A PATCH OF GREEN"

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season's
greetings



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Ted Woehrle Candidate for GCSAA President

Theodore W. Woehrle, golf course superintendent of Oakland Hills Country Club, Birmingham, Mich., was selected as candidate for President of the 4,300-member Golf Course Superintendents Association of America (GCSAA). The GCSAA election will be held in Portland, Ore., Feb. 9, 1977.

Woehrle, a certified golf course superintendent, has been at the Birmingham club since 1968 and was previously superintendent at Beverly Country Club, Chicago, Ill.

A member of GCSAA for 19 years, Woehrle has served as director four years and vice president during 1976. Locally he has served as president of the Midwest Regional Turf Foundation, the Illinois Turfgrass

Foundation, the Midwest Association of GCS, Michigan and Border Cities GCSA and as director of Michigan Turfgrass Foundation. He received a bachelor of science degree in turfgrass management from Purdue University in 1954.

The election is held at the Association's annual meeting during the week of its 48th International Turfgrass Conference and Show, Feb. 6-11 in Portland, Ore. Highlights of the conference and show include some 150 exhibitors from throughout the country and educational sessions presented by 70 speakers from Universities, industry, government and the Association. A record-breaking attendance of more than 5,000 persons is expected.

Season's Greetings



from the
Editor and Publisher

WARNING!

Beware of Winter Damage

Winter is here and we should all be aware of the three dangers that our grass is exposed to during the winter.

1. Desiccation - This is simply the drying out of the grass to the point where the grass dies. Desiccation is especially bad during open winters.

The Southeast portion of Michigan is very vulnerable because of the small amounts of snow.

High greens exposed to wind, sandy soil mixes and thatchy greens with poor root systems are most likely to suffer.

You can help prevent this problem by covering the greens with thermal blankets - heavy topdressing or with brush. Some Superintendents circle the green with snow fence to help catch the snow on the greens.

2. Direct low temperature kill. This is most often associated with compacted soils, poorly drained sites or low areas where the plants are submerged in water followed by a hard freeze. This causes the crowns to become hydrated and then frozen.

When this situation occurs, you have to drain the standing water off the turf before it freezes. Provide

underdrains where possible.

If ice should form and remain for thirty days you should become concerned and try to remove the ice. Punch holes in it - break it up - try melting it with black materials.

3. Ice sheet damage over unfrozen soil. When this happens, there is an odor similar to sewer gas associated with the melting process. The grass is killed from the inhibition of gas exchange and the build up of toxic chemicals and gases in the root zone and crown areas.

Again - try to punch holes in the ice and cause the ice to melt. Begin this practice no later than 30 days after the ice forms. If you wait 60 days, you will lose at least half your grass and if the ice should stay for 90 days you probably will lose all of your grass.

FINAL GOLF DAY FIGURES

All the figures are in from Golf Day and Chairman, Bruce Wolf from reports that a check for \$6,700.00 will be given to the Michigan Turfgrass Foundation for research in Michigan.



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Open Letter from the Michigan Turfgrass Foundation

Dr. John Kaufmann has joined the turfgrass staff after three years on the faculty at Cornell University. John worked and studied here for several years under Dr. Jim Beard and this has made the transition from Cornell back to MSU a smooth one. His research specialties will be in turfgrass physiology, environmental stress, management and varietal evaluation. Reassessment of interests and abilities of the group as a whole has resulted in minor shifts in responsibilities that are needed to cover various duties and to function as a team.

David E. Aldous has come with Dr. Kaufmann from Cornell. He will be pursuing a Ph.D in the area of environmental controls on turfgrass growth. We welcome Dave to MSU.

Scott Eicher, an undergrad turf major, is working part-time to handle turfgrass extension needs. Upon completion of his B.S. degree in March, he anticipates pursuing a M.S. degree while continuing his extension responsibilities. His work in extension is a real time saver for us.

We look forward to developing the new turfgrass field facility. Decisions are presently being made as to the

best location for the facility. Progress will be reported at the Turfgrass Conference.

Of the problems facing the turfgrass industry today, *Poa annua* is one that needs attention. While the argument of whether it is a weed or a grass continues, a primary research objective at MSU will be to determine cultural practices that will improve its adaptation to Michigan conditions. It is time to recognize that *Poa annua* is a major "sports" turfgrass in Michigan.

Another important research objective will be reducing energy input in producing and maintaining turfgrasses. The presently available improved varieties and cultural practices to maintain them have resulted in an energy intensive management system. Varieties and selections need to be evaluated for ability to provide acceptable cover at minimum maintenance levels. Additionally, cultural levels need to be adjusted to the level of use expected for the turfgrass species or variety. This information should lead to considerable energy savings in managing turfgrasses.

We look forward to your continued support and contributions to the Turf-

Continued on Page 10

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HOW TO USE THE CHEMICAL COMPATIBILITY TABLE

by DR. PAUL SARTORETTO

Many opportunities present themselves to the Golf Course Superintendent to tank mix chemicals either to achieve more effective control or to save on labor. All chemicals are classified into solubles and insolubles.

Turfgrass Foundation Cont.

grass Program at MSU. Our desire is to serve your needs as an industry in the state. We need your input and communication to assure us that these needs are being met.

Sincerely,
John Kaufmann
Ken Payne
Paul Rieke
Joe Vargas

Then, FOUR rules have been formulated to aid the superintendent in determining what chemicals can be tank-mixed without encountering phytotoxicity.

RULE NO. 1: NEVER MIX INSECTICIDES WITH OTHER CHEMICALS. This does not mean that insecticides cannot be tank-mixed, because there are superintendents who do mix them. The rare instances are confined to low rates for surface treatment only, and not grub-proofing rates.

Continued on Page 17

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



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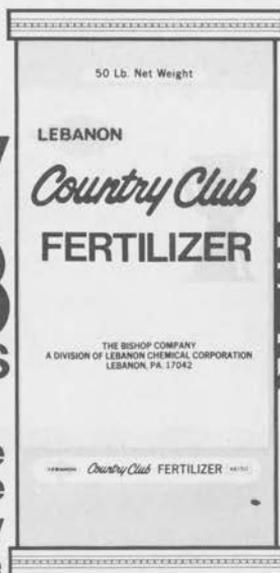
On November 9th and 10th, several of the country's top turf experts addressed approximately 280 representatives from school systems, cities, park and recreation departments, landscaping firms and golf courses regarding turf maintenance, at Wilkie Turf Equip-

ment Company in Pontiac.

Dr. John Kaufmann, head of the Turf Research Program at Michigan State University, discussing "Turfgrass Varieties and Overseeding" led off the program, which was duplicated each day. Dr. Al Turgeon, head of the Turf


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Research Program at the University of Illinois, followed with a talk on "Weed Control". Walter Wilkie presented some views on "Irrigation's Role in a Maintenance Program". Dr. Joe Vargas of Michigan State discussed "Disease Control". Chuck Willey of The Toro Company dealt with past and present "Turf Equipment in a Maintenance Program".

There was something for everyone in the messages delivered, and with the overwhelming response to this, the third such meeting, it will undoubtedly be a fixture in Wilkie Turf's periodic offerings of pertinent turf information topics.

Those interested in attending sessions next year need only advise Wilkie Turf Equipment at (313) 373-8800 to be placed on their mailing list.

Patience is a minor form of despair disguised as a virtue.



Dr. Kaufmann explains how various turfgrasses proliferate.

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CHEMICAL COMPATIBILITY TABLE

SOLUBLES	INSOLUBLES	SOLUBLE-INSOLUBLE COMBINATIONS
<p><u>FUNGICIDES</u></p> <p>PMAS CADDY CADMINATE ACTIDIONE</p> <p><u>INSECTICIDES</u></p> <p>DURSBAN EC DIAZINON EC CHLORDANE EC SEVIN EC MALATHION EC PROXOL SP DYLOX SP</p> <p><u>HERBICIDES</u></p> <p>2, 4-D DSMA 2, 4, 5-T MSMA MCP P AMA DICAMBA</p> <p><u>FERTILIZERS</u></p> <p>UREA AMMONIUM PHOSPHATE AMMONIUM SULFATE POTASSIUM NITRATE MURIATE OF POTASH</p>	<p><u>FUNGICIDES</u></p> <p>TERSAN - 75 1991 TERSAN - LSR FORE TERSAN - SP MANEB SPOTRETE ZINEB BROMOSAN CAPTAN SPECTRO DACONIL 2787 3336 DYRENE FUNGO</p> <p><u>INSECTICIDES</u></p> <p>DIAZINON WP DURSBAN WP SEVIN WP MALATHION WP</p> <p><u>HERBICIDES (PRE-EMERGE)</u></p> <p>DACTHAL TUPERSAN BALAN BETASAN</p> <p><u>FERTILIZERS</u></p> <p>UREA - FORM IBDU</p>	<p><u>FUNGICIDES</u></p> <p>CALOCHLOR KROMAD ACTIDIONE-RZ ACTIDIONE-THIRAM THIMER CADTRETE</p>

*by Dr. P. Sartoretto
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Chemical Compatibility Cont.

RULE NO. 2: ALL INSOLUBLES (WETTABLE POWDERS) CAN BE TANK-MIXED. This ability offers broad spectrum control, particularly when the problem is not readily discernable and a shotgun mixture is more apt to control the pest.

RULE NO. 3: ONLY ONE SOLUBLE CAN BE TANK-MIXED WITH ANY NUMBER OF INSOLUBLES. TWO OR THREE SOLUBLES CAN BE TANK-MIXED BY CUTTING THEIR RESPECTIVE RECOMMENDED RATES PROPORTIONATELY. If two are used, cut the rates in half. If three are used, cut the rates by one third. Example: MCPP 2, 4-D - Dicamba mixture - use 1/3 their recommended rates, which is approximately 1/2 lb. MCPP, 1/3 lb. 2, 4-D, 1/8 lb. Dicamba per acre.

The mixtures of soluble fungicides, such as PMAS, Caddy, Cadminate, and Actidione often give better control than any of them singly. Example: When using a mixture of PMAS and Caddy, cut their respective rates in half - 1/2 ounce PMAS and 1/2 ounce Caddy per 1,000 sq. ft., with or without insolubles such as Spotrete, Bromosan, 3336 or 1991.

RULE NO. 4: IN USING SOLUBLE FERTILIZERS WITH OTHER CHEMICALS. A GOOD PRACTICE IS NOT TO EXCEED ONE OUNCE SOLID TO ONE GALLON OF SPRAY MIX.

(See chart on page 16)

RULE NO. 1:

NEVER TANK-MIX EMULSIFIABLE INSECTICIDE CONCENTRATES.

RULE NO. 2:

ALL INSOLUBLES CAN BE TANK-MIXED WITHOUT INCURRING PHYTOTOXICITY, PROVIDED THE PRODUCTS ARE SPRAYED AT RECOMMENDED RATES OF EACH

Continued on Next Page

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MIXED WITH OR WITHOUT INSOLU-
BLES, THE RATE OF EACH
SOLUBLE SHOULD BE CUT IN HALF
TO AVOID PHYTOTOXICITY.

RULE NO. 4:

SOLUBLE FERTILIZERS AND
TRACE ELEMENTS CAN BE ADDED
INDIVIDUALLY OR MIXED, PRO-
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NEW MBCGCSA MEMBERS

We welcome the following new mem-
bers to the Michigan and Border Cities
Golf Course Superintendents Assoc.

James Hardy (C)
Wayne Ertel (C)
Jeffery Gorney (C)
Darwin Prieskorn (C)
Dale Bauer (C)
James Naugler (B)
Craig Ashworth (A)
Carl Jacob (C)
Rick Trombley (C)

HOW ARE YOU AT RIDDLES?

1. What is the seat of a dog's pants?
2. Why is a dentist a sad man? 3. What has one head, one foot, and four legs?
4. What state is round on the ends and high in the middle?

If you plan for one year, plant rice.
If you plan for ten years, plant trees.
If you plan for 100 years, educate men!
— Chinese Proverb

Keep smiling. It makes everyone
wonder what you're up to.

Answers to riddles: 1. His lungs. 2. He always
looks down in the mouth. 3. A bed. 4. Ohio.



Season's Greetings

AND ALL GOOD WISHES FOR
THE NEW YEAR



Bob, Burt, Don, Gordie, John Mac., John K., Dave, Roy, Jim, Ed & Ron

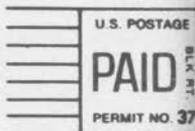
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