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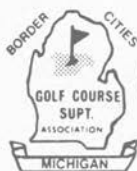
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Annual Meeting at Maple Lane Golf Club

Clem Wolfrom, superintendent of the Detroit Golf Club, was elected president of the Michigan and Border Cities Golf Course Superintendents Association at the annual meeting on October 4, 1977, at Maple Lane Golf Club.

Elected vice president for the coming year is Bruce Wolfrom, CGCS Superintendent of Barton Hills Country Club, of Ann Arbor, Michigan. The two new directors of the Association elected were, Roger O'Connell CGCS, Superintendent of Red Run Golf Club, Royal Oak, Michigan and Ed Heineman, Superintendent, Waters Edge Country Club, Grosse Ile, Michigan.

In an address to the Association, President Wolfrom said: "With your help, we will carry on the task of strengthening the bond of communication among superintendents to insure the interchange of scientific and practical knowledge for more efficient and economical maintenance of golf courses."

It was announced at the meeting that Bruce Wolfrom is the proud father of a new son, Tyler James Wolfrom, on the 23rd of September and he reports that his lovely wife, Donna, is doing

quite well. He'll pass out the cigars next month. Congratulations! That isn't all; the National has informed us that Clem Wolfrom has been placed in nomination for the Board of Directors of GCSAA. The election will be held in San Antonio, Texas, next February. Let's all support Clem in his campaign.

GCSAA 49th International Turfgrass CONFERENCE AND SHOW

"ECONOMY THRU IDEAS" is the theme for the premier turfgrass industry conference and show, sponsored by the Golf Course Superintendents Association of America. This is a once-a-year opportunity for turfgrass managers, educators and industry representatives to learn about and share the latest ideas and developments in turfgrass management, services and equipment. Exhibits featuring new products for the turf industry will be open February 14-17; the conference will be in session February 12-17. This is the place for you to meet the other people who make the turfgrass industry dynamic and to capture dollar-saving ideas. See you in San Antonio in '78.



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golf day...BIG Success!

General Chairman, James Timmerman, Superintendent, Orchard Lake C.C. announced at the annual meeting that the Golf Day proceeds will be in the neighborhood of \$6,500.00. He thanked all the Committee Chairmen and their members, especially Chris Myers, Chairman of the Ticket Committee and Superintendent of Bloomfield Hills C.C., and Jay DelCamp, Chairman of the Golf Committee, and Superintendent of Gowanie Golf Club. A special thanks was also given to the many Suppliers that donated their time and gifts for the raffle table. This is still another gesture on the part of the Michigan and Border Cities Golf Course Superintendents Association and their friends showing the turf world what we think of our research projects and the staff at Michigan State. Through the years we have given about \$70,000 to various turf research projects.

Have you wondered where the monies come from for the turf program at Michigan State University? Besides the University and State Government, the program gains additional support from the following:

DONOR	AMT. IN DOLLARS
O. J. Noer Foundation, USGA, GCSAA	68,000
Michigan State Highway Department	36,000
Commercial Grants	124,000
Fertilizer, Chemicals & Equipment	70,000
Michigan Turfgrass Foundation	104,000
Robert Handcock Donation	125,000
Michigan & Border Cities, GCSAA	70,000
	597,000

12TH ANNUAL WISCONSIN GOLF TURF SYMPOSIUM

Pfister Hotel — Milwaukee, Wis.
OCTOBER 26 and 27, 1977

This is the amount given over several years. Not the annual amount. As you can see, this is BIG BUSINESS in Michigan. They need your continued support. If you didn't sell your tickets this year, make an extra effort next year. You are helping yourself and who is greater than YOU?

THE DEADLINE IS FINALLY HERE

For two years we have been telling our readers that October 21, 1977, would be the deadline for all golf course superintendents to become Certified Pesticide Applicators. Well, the day has arrived. This means that any Golf Course Superintendent purchasing restricted chemicals, such as mercury fungicides, must have the proper state certification.

If you are not certified you may get details on the certification process and how to become licensed from your County Agent or the local EPA office.

Name Herb Graffis To World Golf Hall Of Fame

Herb Graffis, distinguished American journalist and co-founder, with his brother Joe, of the National Golf Foundation, has been voted into the World Golf Hall of Fame at Pinehurst, North Carolina.

Also named to the Hall were Bobby Locke, the famous South African golf champion, and the late noted golf course architect Donald Ross.

Graffis, 84, began his journalistic career in 1922 with Chicago Golfer magazine. He is co-founder and past president of the Golf Writers' Association; also co-founder of two influential periodicals, *Golfing* and *Golfdom*. Graffis currently resides at Fort Myers Beach, Florida.

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What does the Superintendent do in the Winter?

What Does the Golf Course Superintendent Do in the Winter? What do you say when someone asks you this question? Do you have a ready answer? Probably not. Here are a few things that you might want to say. Maybe you would like to print some cards with this information. If you get asked this question as often as I you may just want to memorize it.

Many people have the false conception that we do absolutely nothing on the course. It certainly must be a vacation at least it must be thoroughly enjoyable. Nothing could be further from the truth.

O.K., then, what does a productive superintendent do in the months of December, January, February, and March?

Maintenance repairs, overhauling of equipment, and sharpening of mowers is only part of the winter schedule. On good days, we even work out on the course on heavy construction work and trimming of trees. Budget work, meeting with the long range planning committee Board of Directors and the grounds committee are just a few of the meetings that we attend. These meetings are necessary to set up next years purchases and programs. This is also a good time to contact prospective employees for the coming year.

In addition to good planning, the winter months offer time for the

superintendent to attend conferences and seminars, thus becoming better qualified and educated in the ever changing field of Turf Management.

The so-called off season is a good time to re-evaluate past programs and course conditions. Searching out better ways of doing the job must be a continual concern of the productive superintendent. The winter months give the superintendent a chance to revitalize himself, his golf course and his profession.

This year, in particular, we are undergoing intensive Pesticide Training and Certification Programs. That, like it or not, will result in proper pesticide control and usage.

If you feel that your Board or Owner's don't really know the training education and productivity accomplished during the winter months, why not submit a report informing them?

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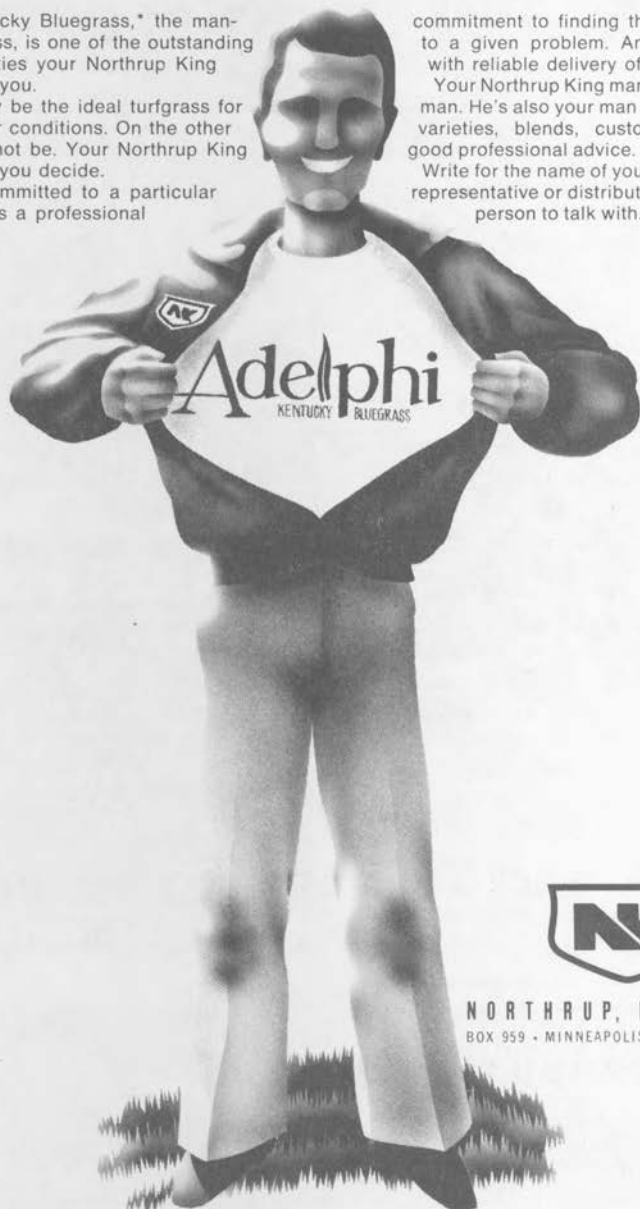
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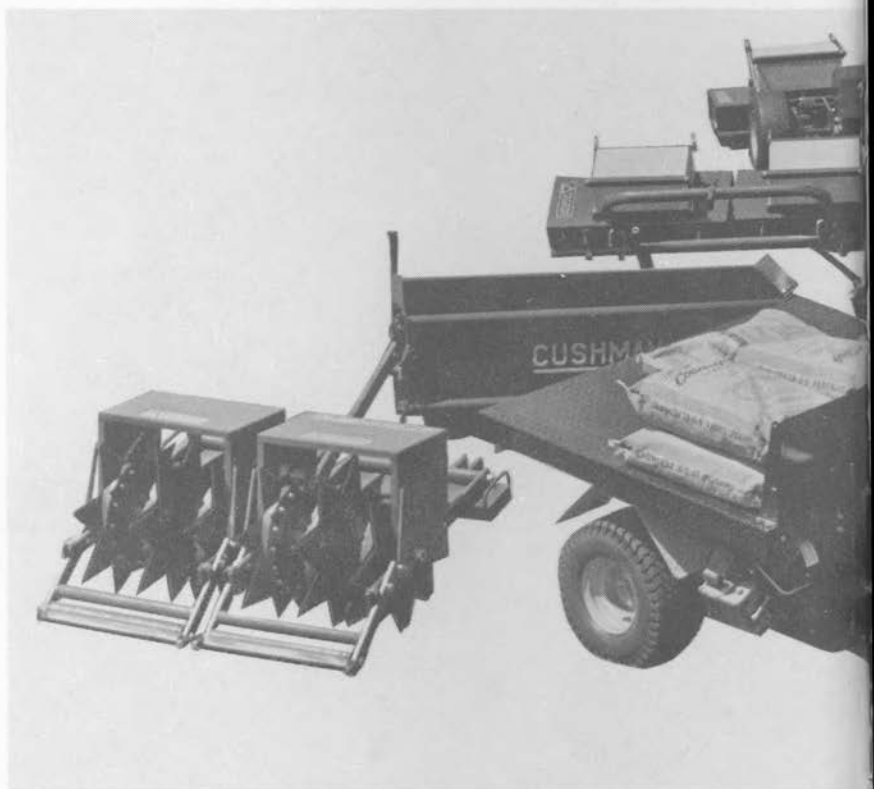


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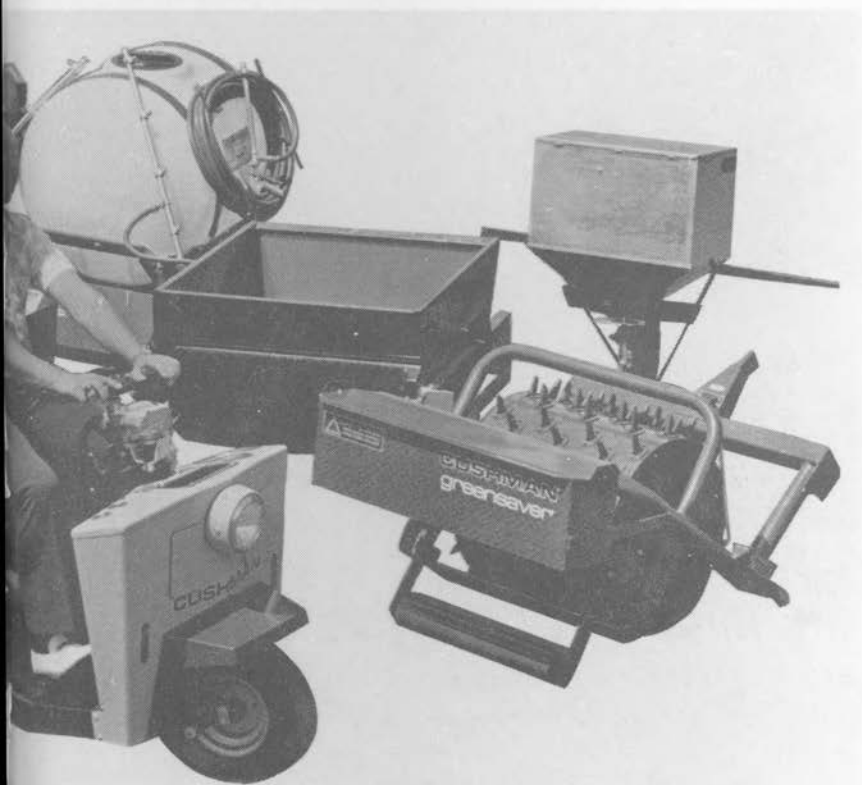
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3. Release in cool weather.
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7. Be free flowing and spread easily even on breezy days.
8. Not cause nitrate accumulation.
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10. Be a high concentration to eliminate storage and freight costs.

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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.

Winterizing Your Underground Sprinkler System

From CENTURY RAIN/AID

It's that time of the year to think about winterizing your irrigation system to avoid damage caused by freezing. By taking the necessary steps to protect your system now, you will avoid costly springtime repairs.

Blowing out your irrigation system with an air compressor has proven to be the most popular and sure way of draining irrigation systems in the Midwest. We strongly recommend this method.

DRAINAGE PROCEDURE

The following sequence for drainage should be followed in order, and tailored to your particular installation:

1. Several days or a week before actual draining:
 - A. Locate irrigation drawing.
 - B. Turn off water supply.
 - C. Open drains that flow directly

into tile lines, creeks or ponds.

- D. Insert sprinklers at the high and low points of the lines to replace the water as the low heads drain.

2. Connect suitable sized air compressor near the source of water. Note: A piping system of 3" and less can be blown quickly with one 125 cfm compressor. Piping systems 4" - 8" can be blown faster with less chance for error with two 125 cfm compressors.

3. Beginning at the water source, open each sprinkler outlet until you get air and no water, then close, on one branch of the main line and follow it to the dead end. Do the same on each branch of the main line until you have air and no water coming from each

Continued on Next Page



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Winterizing Cont.

outlet. Be sure to allow compressor to build up pressure so the water will be moved with a large volume of air.

4. Repeat step 3 to check drainage.
5. Starting again at the water source and working toward the end of each lateral, crack the drain valves slightly to be sure air and no water escapes. Close the drain, wait a minute, and repeat. Water may have collected at the low points. Note: Drains and standing surface water usually occur at low points in the terrain. Closed drains will prevent the surface water from entering the pipe line through the drain valve (along with stones from the drainage sump), and eliminate the drain closing chore during spring turn-on.

PUMPHOUSE DRAINAGE

The basic piping system is now drained and special attention is needed to properly drain the pump-house. One small slip at this state of drainage could be very expensive.

Continued on Next Page



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Winterizing Cont.

6. Pumphouse drainage:
 - A. Starting at the discharge line in the pumphouse wall, trace the flow of water in the piping through gate valves and check valves, and open necessary drains.
 - B. Drain pump volutes by removing the bottom plug or opening drainage cock.
 - C. Remove or drain suction drop pipe.
 - D. Remove water from pressure reducing valve covers by blowing out or loosening cover bolts.
 - E. Turn pump motors off and protect windings against possible rodent nesting.
 - F. Drain water from pressure gauges, switches, tank sight glasses, tank air chargers, and other special items subject to freeze in pumphouse.
7. Program automatic valves to operate once a day for 5 minutes to prevent the solenoid plunger from sticking and reduce the moisture in the solenoid coil and automatic controller contacts.

Before going out and renting an air compressor and blowing your system, take several hours with your blueprint and the above procedure. Write down in sequence the steps you plan to take when you start actual drainage. The steps can be listed by thinking of yourself as entering the pipeline at the source of water and your job is to push the water out on top of the ground as you move through the pipe. What routes will you have to follow to push all of the water out the dead end of every line? The same route you took entering the pipes at the source to get to the dead ends must be followed by the wall of air you will put into the system when blowing out.

Frost damage repairs have got to rate near the top of the bad job list. In

Continued on Next Page

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WINTERIZING PROBLEMS ANYONE?

Winterizing time is approaching fast. Before that first hard freeze hits, we'd like to remind you to take a moment now to plan your shutdown and winterizing program.

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PENNSYLVANIA TURF COUNCIL

JANUARY

Southeastern Pennsylvania Turf School and Trade Show, January 10-11, Westover Country Club, Jeffersonville, Pa. Two-day school with speakers each day and exhibits by firms in the turf-grass industry. Contact: William H. White, SE Corner Broad and Grange Streets, Philadelphia, Pa., 19141.

The Pennsylvania State University Turfgrass Conference, January 16-19, The Pennsylvania State University, J. Orvis Keller Conference Center, University Park, Pa. 16802. Contact: Dr. Joseph M. Duich, 21 Tyson Building, University Park, Pa., 16802

FEBRUARY

Capital Area Turf School, February 21-22, Hershey Motor Lodge, Convention Center, Hershey, Pa. Topics will be grass identification and uses, turf disease identification, tree diseases, soil amendment, gypsy moth, energy conservation, etc. Contact: Harold E. Stewart, 75 S. Houcks Road, Suite 101, Harrisburg, Pa., 17109.

Western Pennsylvania Turf School/Trade Show, February 21-23, Howard Johnson Motor Lodge, Monroeville, Pa. Three-day show with one day devoted to Shade Tree Symposium. Contact: Henry F. Meinert, Jr., 16 Schenk Terrace, Pittsburgh, Pa., 15215 OR George J. Morgan, Wildwood Golf Club, Sample Road, Allison Park, Pa. 15101.

Northeastern Pennsylvania Turf School, February 28, Master Host Inn, Wilkes-Barre, Pa. Exhibits of turf-grass related equipment and supplies. Contact: Cy Chadwick, Court House Annex, 5 Water Street, Wilkes-Barre, Pa., 18702.

MARCH

Northcentral Pennsylvania Turf School, March 21, Holiday Inn, Bradford, Pa. (Tentative). Contact: Clarence E. Craver, Court House, Smethport, Pa., 16749.

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Softens beards, lubricates faces, brushes teeth

Reduces swelling

Thins paints and inks

Is pleasant to see, hear and touch; unpleasant in your clothes

Spill, spoils, spurts, sprinkles, splashes, ripples, runs, falls, flows and cascades

When displaced, it creates buoyancy

Leaves wakes, makes noise

Dilutes and diffuses. Wrinkles skin and softens hair

Produces food. Removes oils, but doesn't mix with petroleum products.

Is worshipped, hated, and feared

Is the main and fundamental ingredient of life, and the mixer of bourbon

In short, water is a pretty vital commodity (J.B.C.)

From Tuck Tate's Northern Michigan Turfgrass Managers Newsletter

FAMOUS GIANT-VAC'S GIANT-BLO



Model
No. 4B
No. 5B

Choice of 4 H.P. Kohler engine (No. 4B) or 5 H.P. Briggs & Stratton engine (No. 5B) 10 x 2.50 semi-pneumatic wheels are standard. Fully pneumatic 10 x 3.50 wheels optional.



Model
No. 8B

8 H.P. Briggs & Stratton engine—10 x 2.50 semi-pneumatic wheels are standard. Fully pneumatic 10 x 3.50 wheels optional.



Model
No. 7K
No. 8K

Model 7K has a 7 H.P. Heavy Duty Cast Iron Engine
Model 8K has a 8 H.P. Heavy Duty Cast Iron Engine
Fully pneumatic 10 x 3.50 wheels are standard

GIANT BLO GIANT-VAC Mfg., Inc.

Affiliate of H.L. Diehl Co. Inc. • South Windham, Conn. 06266

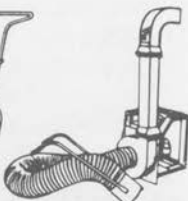
Giant-Blo whisks away leaves and debris at super-hurricane velocities. Well balanced for operator ease and maneuverability. A Giant-Blo will clean many acres in a fraction of the normal time. A unique exhaust deflector is standard on all models and directs the air in either a side or forward direction. This is ideal for cleaning hard to get at places. Intake and Exhaust hose kits are also available. Giant-Blos clean debris as neatly as hand raking, yet, 11 times faster and 10 times easier.



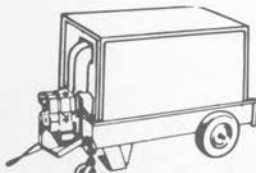
VACUUM
MACHINES



BLOWERS



LOADERS



TRAIL VAC



DIEHLMOBILE



LAWN EQUIPMENT CORPORATION

520 W. 11 MILE ROAD

ROYAL OAK, MICH. 48068

TELEPHONE: (313) 398-3636

JACOBSEN
TURF EQUIPMENT

SWEEPERS



MODEL
720
PULL BEHIND
SWEEPER

SPECIFICATIONS:

Sweeping Width
Pick-Up
Frame
Hopper

Capacity
Dumping
Bearings
Gear Box
Universals
Drive to Reels
Reel Timing
Wheels
Tires
Hitch
Height Adjustment

60 in.
Mechanical, 2 reels-counter-rotating rubber fingers.
Rugged angular steel, all welded joints.
Hinged to power head, angular steel frame, galvanized steel skin riveted to frame.
5 cu. yds.
Self dumping, activated by three point hitch.
Sealed and self-aligning.
Heavy duty, 45 hp.
Heavy duty.
Chain (60) runs in lubricant.
Chain, connects reels for counter-rotating interlocking feature.
Castor type—rear.
Pneumatic, 16 x 6.50—8 (2).
3 point, standard tractor hook up.
Pre-set at factory, for other than normal conditions skid shoes can be raised or lowered. For fine adjustment (0- $\frac{1}{2}$ in.) use adjustable top link on 3 point hitch.

OPTIONAL EQUIPMENT:

Thatcher-Thinner
Front Rear Roller Attachment Replaces standard skid shoes.
Curb Broom
Bag Attachment Replaces hopper, (factory installed) material is collected in burlap bag. Capacity: 1 $\frac{1}{2}$ cu. yds.

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

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