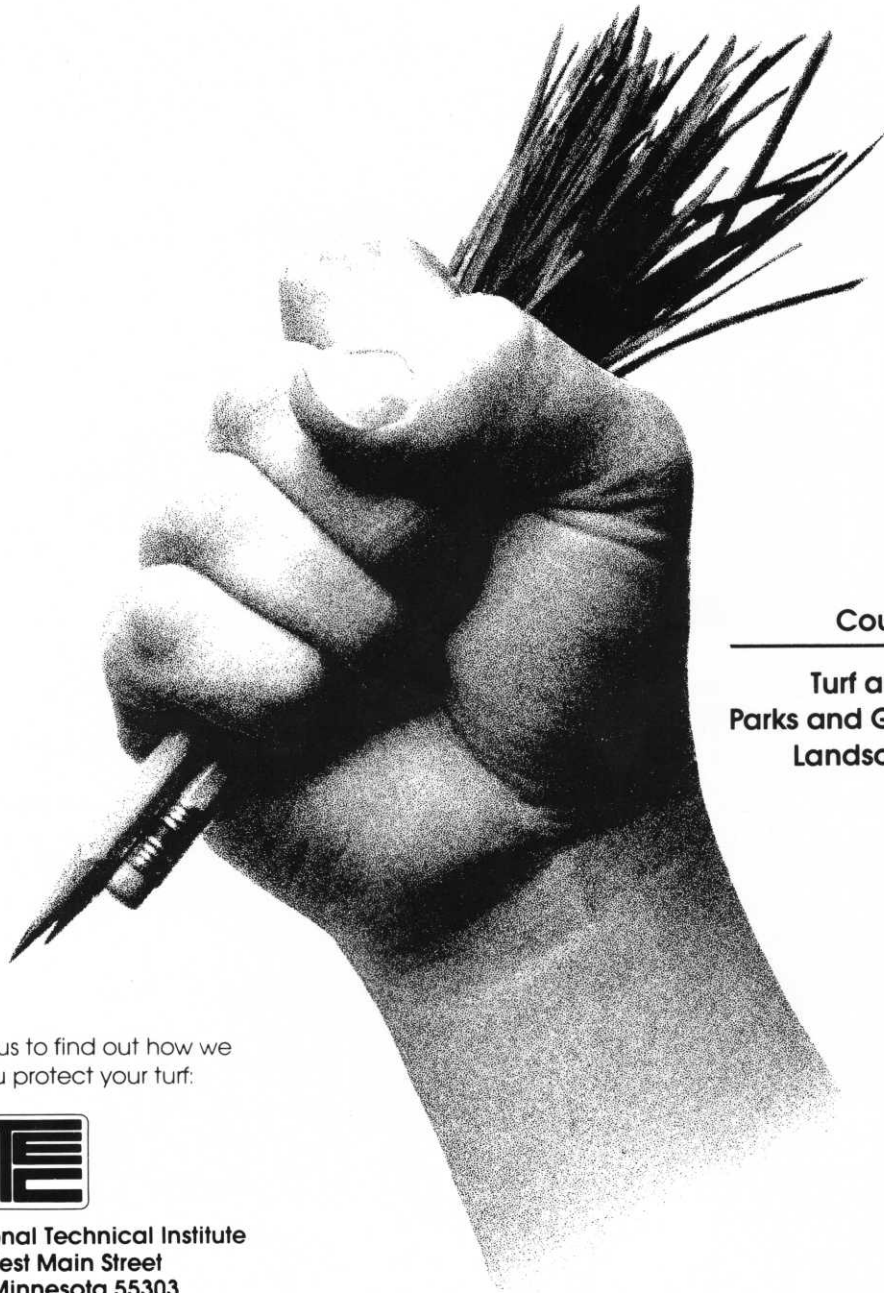


OUR STUDENTS CAN HELP PROTECT YOUR TURF.

When it's your job to make sure that what's green stays green, time is in short supply. The last thing you need are maintenance crew members who need training. Your crew must not only be hard working, but also knowledgeable. With the pressures you face daily, you can't spend a lot of time training.

That's where we can help. We're Anoka Vocational Technical Institute, and our one

and two year Horticulture Technology programs have been designed with you in mind. Our programs are flexible, allowing you to send people for training during the off season, and have them back using what they've learned to help you when you need them most. And, when they complete our course and get their diploma, they're ready for even more responsibility in years to come.



Course Offerings

Turf and Golf Course
Parks and Grounds Maintenance
Landscape Technology

Call or write us to find out how we can help you protect your turf:



Anoka Vocational Technical Institute
1355 West Main Street
Anoka, Minnesota 55303
(612)427-1880

HOLE NOTES

OFFICIAL PUBLICATION OF THE MINNESOTA
GOLF COURSE SUPERINTENDENTS' ASSOCIATION

EDITOR: WARREN J. REBHOLZ
6550 YORK AVENUE SOUTH
SUITE 402
EDINA, MINNESOTA 55435-2383
PHONE: 612/927-4643

ASSOCIATE EDITOR: GUY R. GREEN

EDITORIAL COMMITTEE CHAIRMAN:
FRED R. ANDERSON

M.G.C.S.A. BOARD OF DIRECTORS FOR 1985:

OFFICERS

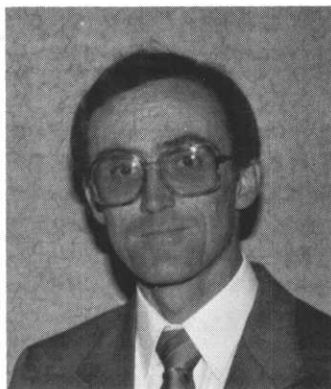
PRESIDENT.....DALE CALDWELL
VICE-PRESIDENT....KERRY GLADER
SECRETARY.....LYLE OLSON
TREASURER.....KEITH SCOTT
EX-OFFICIO.....DONAVAN LINDBLAD

DIRECTORS

FRED ANDERSON	DOUGLAS MAHAL
TOM FISCHER	RANDALL NELSON
SCOTT HOFFMAN	CHRIS HAGUE

THE FOLLOWING IS A LIST OF OFFICE
TELEPHONE NUMBERS FOR THE ENTIRE BOARD:

DALE CALDWELL.....612/544-4474
KERRY GLADER.....612/253-5250
LYLE OLSON.....612/464-3097
KEITH SCOTT.....612/938-6900
DON LINDBLAD.....612/755-2140
FRED ANDERSON.....612/689-3800
TOM FISCHER.....715/259-3926
CHRIS HAGUE.....612/448-3626
SCOTT HOFFMAN.....218/829-2811
DOUGLAS MAHAL.....612/929-1661
RANDALL NELSON.....507/451-4144



FROM THE PRESIDENT'S DESK

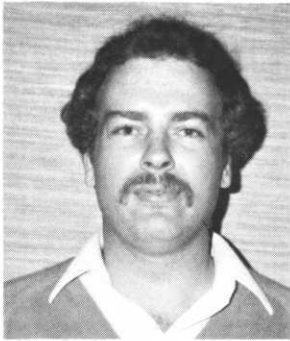
DALE CALDWELL

Suddenly you stand up, turn around and it's summer. Summer came up on us fast in Minnesota this year, if you didn't realize it. By most observations, the season is anywhere from two to three weeks ahead of normal. This shouldn't really surprise us in Minnesota because as a wise old sage told me recently, "there is no such thing as normal". Normal is merely the averages of the extremes. If you want normal, the extremes, one way or the other, are more normal than normal. Ponder that while your're watering your dying *Poa annua* in June this year.

Here's a brief synopsis on what happened with the Turf Extension Specialist position some of us worked so hard to obtain (particularly Keith Scott) in the past few months. The legislative session ended in mid-May. The House of Representatives funded our proposal for exactly half of what we requested. The Senate didn't do anything for us. Consequently, the proposal ended up in a Conference Committee consisting of five members of each body. It is virtually assured that a special session will be called by the Governor. The general trend has been to see who can cut the budget requests the most. Those of us who have worked closely on this project are less than optimistic as to the future of this position at this point. Maybe in two more years!!

Have a good season. Hope to see you at the Green Industry Expo '85 June 19 and/or the picnic on June 30.





BURL GOLF CLUB ADDRESSES THE GROWING NEEDS OF THE 80'S

by TOM E. NATZEL
Superintendent Burl Golf Club

Burl Golf Club is located west of the Twin Cities metro area in Mound. The course consists of 255 acres ranging from open gently rolling land to wooded peat land. The layout offers golfers the opportunity to hit away, while demanding varying degrees of accuracy. It also contains many forms of wildlife including ducks, pheasants, fox, deer and very busy beavers!

Because of the expanding membership now reaching 320 active members, the Board of Directors made the commitment and realization that a full time superintendent was definitely needed to keep up with the demands of the general membership. Previously the superintendent was hired seasonally with routine maintenance and projects being done during the prime golfing time, including evenings and weekends. Being only part-time also left little time for the superintendent to do anything but the basic routine maintenance. As you can imagine this caused a great deal of conflict within the membership.

Upon my arrival as superintendent in late October 1984, I scrutinized the course and began drawing up a priority list of projects which changed more than a few times over the first two months. However, thanks to the unseasonable nice weather two large projects were completed in November and December. Then my attention turned to the equipment, maintenance facility and golf carts. Spending two months of work on winterizing the shop building which also only operated during the golfing months and desperately required some insulation and a good source of heat.

With that accomplished I started on maintenance and repair of the equipment. Here to with the change over from a part-time to full-time superintendent many procedures were changed as well. Previously golf carts were operated as is until they ceased to run at all. Equipment repair was done largely by a repair shop which can be costly and leaves you at the mercy of the repair shops time schedule. Thus leading to my next project, the hiring of a mechanic to work on a preventive maintenance program and to set up a shop facility that will be able to undertake all and anything that could and will arise with equipment repair.

There are many changes that have been made and that are yet to come. All of these things have not gone unnoticed and the board and members are anticipating (and expecting) a very much improved golf course in the coming years.

These changes would not have been accomplished if the club had not realized their potential and the importance of taking the steps needed to meet the demands of the golfer in the 80's. The sacrifices that were made by the club so that all available capital could be directed into my budget for course improvements, winterizing the shop, tools and new equipment purchases are very positive steps toward improving the golf course and playing surface. This can be used for the growth to an even larger membership and new events. Hopefully other smaller clubs will realize their full potential and make some positive changes in the 80's.

HANDS ON TRAINING FEATURED AT ANOKA AVTI

Horticulture is more than just planting trees and puttering around in a greenhouse. It's identifying plant diseases. It's irrigating and fertilizing rows and rows of thriving greenery. It's building and maintaining public and private golf courses. It's designing and constructing the grounds of businesses and public property.

continued on page 5



RANSOMES

The compact, lightweight

Motor 180

Ride-on triple mower



VISIT WITH US AT
GREEN EXPO '85
JUNE 19th & SEE THE
COMPLETE LINE OF
RANSOME'S ROTARY &
REAR MOWER PRODUCTS

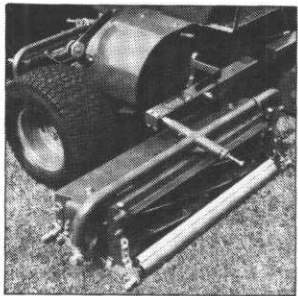


The Motor 180 has all the RIGHT features for today's ride-on mowing

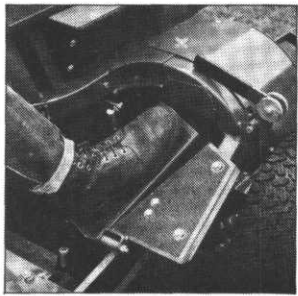
SPECIAL LEASING TERMS AVAILABLE



Superb handling ability



Floating head cutting units



Simple to operate



Easy to transport

THE COMPACT, LIGHTWEIGHT RIDE-ON TRIPLE WITH CUTTING WIDTH OF 71 IN. REDUCES COMPACTION, INCREASES PRODUCTIVITY, ELIMINATES SCALPING.

The Motor 180 is versatile enough to trim golf tees and surrounds. Its low profile design hugs the ground giving outstanding stability and performance, even on steep slopes. Instant response from the single foot pedal control for forward or reverse drive gives the ultimate in handling ability. Choice of 5 knife fixed head and 7 knife floating head cutting units lets you choose the right finish for your turf. With cutter drive completely independent of ground speed the cutting efficiency is maintained even when maneuvering at low speed. Units latch out of work manually. Mechanical lift to units from the operator's seat and grasscatchers are optional.

FOR "HANDS-ON" DEMONSTRATION OF THIS INCREDIBLE MOWER . . . CALL TODAY

Distributed Exclusively By



502 No. Front St.
Mankato, MN 56001
(507) 345-5083

"People are so misled by horticulture. There are so many myths about it. But there's a lot more to it than the average person realizes," said Dick Robinson, Horticulture Technology instructor at Anoka AVTI.

Students enrolled in Robinson's program at Anoka AVTI quickly learn of the reality behind the myths as they indulge in first-year courses as varied as plant protection, turf management, math, computer operations, insects, weeds and plant materials, equipment operations, arboriculture, and landscape design.

The location of Anoka AVTI's landscape career center, behind Anoka High School, is almost as obscure as the definition of horticulture itself.

"We've got more than 100 acres of prime real estate along the Rum River," said Robinson, "but no one knows we're here. We encourage people to come down and look around and see our plants and use our golf course," he added, referring to a five-hole golf course, designed and maintained by AVTI golf course management students.

It is on those 100-plus acres that students get a real working knowledge of the science of horticulture.

"We're very hands-on oriented. That's the purpose of our large campus--students are continuously revamping our grounds and upgrading it," Robinson commented, "The students think they come here to work. Yes, they do, but they're learning at the same time."

Students learn as they explore the natural and manmade materials which affect plants and examine characteristics of common Minnesota plants. Also, during the first year program, students learn to identify insect problems and recognize damages and diseases affecting plant materials.

Students really "get their hands dirty" in the soil studios where they gain an understanding of different soils found in Minnesota and learn to recognize how plant material benefits from specific soils.

Weed control and identification is another important area of instruction for horticulture students.

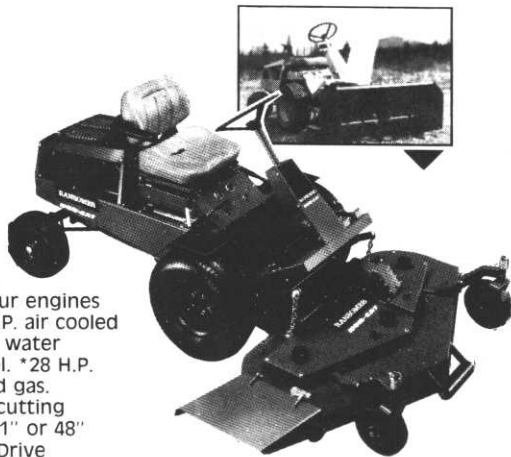
After finishing the first year of study at Anoka AVTI's horticulture technology program, complete with five weeks of on-the-job training, students are fully qualified to enter the industry as a horticulture aid. A second year of specialized courses is also available to equip the student for entry into a specific field of horticulture, such as landscape, turf and golf course management, parks and grounds maintenance, and horticultural business management.

continued on page 6

IT'S A JUNGLE OUT THERE!

And the Ransomes Rider is the king of the jungle, with a cunning for cutting fuel consumption. This proven performance pours through the toughest, tallest terrain.

**RANSOMES
BOB-CAT**



- Choice of four engines
18 H.P., 24 H.P. air cooled gas. *22 H.P. water cooled diesel. *28 H.P. water cooled gas.
- Choice of 3 cutting widths 74"-61" or 48"
- Hydrostatic Drive
- Hydraulic Lift



Long Lake Ford Tractor

"Service is our specialty"

Hwy. 12 - Long Lake • 475-2281
Open 7:30 a.m. to 5 p.m. weekdays • Saturday: 8 a.m. to Noon

MOSQUITOES-INSECTS-PESTS-ODORS

EQUIPMENT & CHEMICALS

Turf
ANTI-TRANSPARENT
Reduces water needs & stress
Promotes rooting

"bti" Biological Mosquito Larvicide

M S & S I
Mound Spraying & Supply Inc.
705 North Shore Drive
Mound, MN 55364 U.S.A.
612/472-4869 Telex: 29-8414 (Aireplan STP)

GEM LINE
TURF SPRAYERS
10-750 gallon
Trailer or skid Mtd

QUALITY-PRICE-SERVICE

In the landscape program students develop skills necessary for the production, use, distribution, and maintenance of ornamental plant materials. Specialty areas include nursery production, landscape construction and design implementation, and garden center operation and sales.

Students who choose to enroll in the second year turf and golf course management program will be part of the only program of its kind in the five-state area.

"We are very unique because we offer a comprehensive turf program. The only other place that offers turf management is maybe a four-year college, and as part of our program we run and manage our own five-hole golf course that is open to the public at no charge. We totally rejuvenate the entire course as part of the training," Robinson said.



Students in Anoka AVTI's horticulture occupations program learn to use heavy equipment and machinery as part of their training.

This practical, working experience helps students become familiar with sprayers, fertilizer spreaders, mower operations, disease and weed identification and control, and irrigation installation.

In the parks and grounds maintenance specialty, students acquire advanced skills and techniques involved in maintaining industrial grounds, parks, cemeteries, recreational fields, and related areas. Areas of study include pest identification and control, arboriculture, first aid, turf management, building and grounds maintenance, communications and human relations.

Students successfully completing the parks and grounds maintenance program would be employed at state, federal, and local parks, cemeteries, industrial grounds, and recreational areas.

The second year horticultural business management program of study is completed in Anoka AVTI's Business and Sales Careers Program, after finishing the horticultural aid program at the landscape center. The program is designed to prepare students for management positions with training in accounting, credit and collections, and supervision.

Landscape design, turf and golf course management, parks and grounds maintenance, horticulture business management. The variety of horticultural careers is surprising.

"People think it (horticulture) is all planting and greenhouses. But, as you can see, it's not. It's much more," Robinson commented.

Anoka AVTI's landscape career center was the site of the 1984 Minnesota Green Industry Expo and will again host the expo on June 19, 1985.

"The greens expo is like a trade show for the different equipment. It gives the participants a chance to look at and operate the equipment available in the industry, and they can do all that right on our golf course," Robinson explained.

Participants in last year's expo included the Minnesota Golf Course Superintendents Association, the Minnesota Street Superintendents Association, the Minnesota

continued on page 7

Park Supervisors Association, the Minnesota Society of Arborists, the Minnesota Association of School Maintenance Supervisors, the Minnesota Hospital Groundskeepers, the Grounds Supervisors of Area Colleges, and the Minnesota Cemeterykeepers Association.

"The expo is open to the public and the building and sites are open for tours," Robinson added.

Anoka AVTI's horticulture program draws students from across the five-state area and beyond, according to Robinson, and, he says, "We're here to serve the industry. We have lots of flexibility. Students can work for an employer and then come to school in their off hours.

"It used to be that we had a lot of students who were high school kids going to school because someone told them to. Now, they're coming in here to better their talents. They're already working in the industry, but they'd like to upgrade themselves a little bit. We offer the flexibility they need to suit their educational needs," said Robinson.

A career in horticulture is a challenging one, and one that has some specific qualifications as Robinson emphasized, "You have to have a love for plant materials and for the outdoor life. If you don't like high humidity and warm temperatures, then you better stay in your air conditioned office."

But if you're ready for the outdoor life, if you're ready to get your hands dirty, and if you're not afraid of hard work, look into one of the many varied fields of horticultural study at Anoka AVTI.

ASSOCIATES CORNER



On May 1, 1960 Bartley Supply Company was founded. That same day we started working with the installation of a new sprinkler system for the Sauk Centre Golf Course. Since that first system 25 years ago, Bartley Supply has worked with over 130

golf courses throughout Minnesota, Wisconsin, North and South Dakota providing designs and materials for watering systems and pumping stations.

Starting out primarily as a distributor for Cresline Plastic pipe and Fairbanks Morse pumps, Jerry Bartley, our company's founder, soon became a Master Turf Distributor for Rainbird in the State of Minnesota. During the 1960's Bartley's grew rapidly and expanded its distribution to a full line of plumbing, heating and water well supplies. In 1972 Bartley Supply founded "TOP LINE", a national merchandising program for plumbing and heating contractors.

As we branched out into many product lines we never lost interest in the Turf Irrigation Industry. Today Bartley's continues to maintain a separate sprinkler department working with golf courses, installation contractors and engineers to design and provide irrigation systems and pump stations that keep pace with today's technology and our customers growing needs.

Headquartered in St. Cloud, Minnesota Bartley's also has branch outlets in Brainerd and Alexandria, Minnesota. The wide range of products we distribute and the number of dealers we work with enables us to provide truck delivery to all areas of the state on a regular basis.

Continually striving to provide better service, we recently began stocking a full line of larger horsepower pumps and motors (up to 40 HP!)

Besides distributing a complete line of Rainbird and Hunter Irrigation Products, we also stock pipe, fittings, parts and accessories through 8" diameter. The success Bartley Supply has enjoyed over the past 25 years is directly related to the strong emphasis we place on providing our customers with high quality service. With continued emphasis on our customers' satisfaction we are confident the next 25 years will also be most successful.

FOR SALE

1982 JACOBSEN TURF CAT 60" MOWER
790 HRS. GOOD CONDITION \$3500
CONTACT: KEVIN CLUNIS 439-7760
STILLWATER COUNTRY CLUB



Agricultural Chemicals Business
 SDS Biotech Corporation
 7528 Auburn Road, P.O. Box 348
 Painesville, Ohio 44077

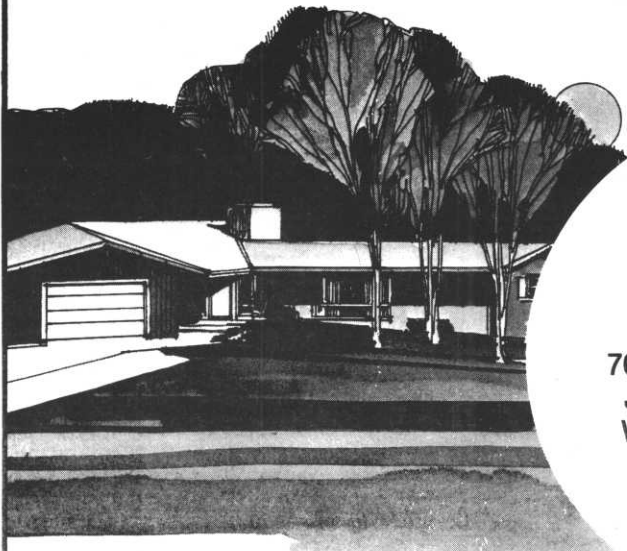
SDS Biotech Turf Care® Products

Daconil 2787® fungicide

America's preferred turf fungicide. Delivers unsurpassed control of 10 major turf diseases.

- Available in flowable and wettable powder formulations.
- Resists wash-off to provide maximum disease protection.
- Never a documented case of resistance in 15 years of continuous use.
- Can be applied on over 90 grass species and varieties.
- Won't burn turf in hot weather.
- Controls common diseases on 45 ornamentals.

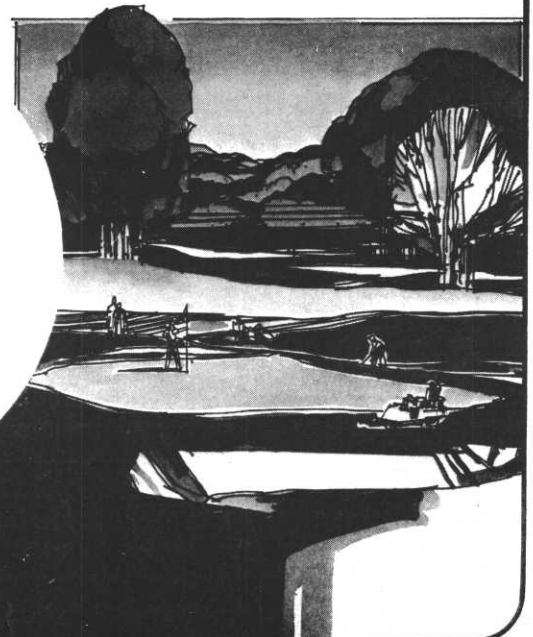
Diseases	Interval of Applications	Rate of Application per 1000 sq. ft. In 2-10 gals. water	
		Flowable	W-75
Helminthosporium: leaf spot and melting-out	7-10 days	3-6 fl. ozs.	2.4 ozs.
Brown patch			
Gray leaf spot			
Curvularia leaf spot			
Red thread	7-10 days	3-9 fl. ozs.	2-6 ozs.
Copper spot	7-10 days	6-9 fl. ozs.	4-6 ozs.
Dollar spot	7-14 days	3-6 fl. ozs.	2-4 ozs.
Stem rust of bluegrass DICHONDRA Alternaria leaf spot (CA only)	7-14 days	6.9 fl. ozs.	4-6 ozs.

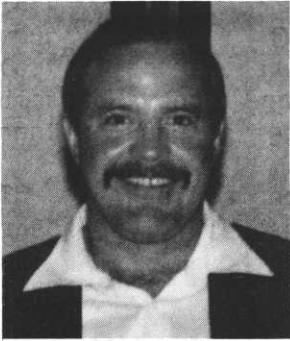


TOM L. HAUGEN
 706 East Second Street
 Janesville, MN 56048
 WHSE: (507) 234-5102

800-642-2736

(Minnesota Wats Only)





EDITOR'S CORNER

FRED ANDERSON, JR.

I have the feeling that we were not prepared this spring for what Mother Nature had in store for us as far as our irrigation systems. I'm afraid it was a rude awakening. Breaks in places where we shouldn't have them seem to be the exception rather than the rule. Some, like Mora Golf Club, had breaks right next to where they connect the compressor, Northland Country Club had a 3' boulder heave up through one of Mike's main lines. In talking with irrigation people, it was their feelings that most of the breaks were not the result of improper blowing techniques, but a combination of little snow cover, rain in December and severe cold causing a very deep frost and ground heaving that probably did most of your irrigation damage. It looks again that Mother Nature has shown her powers. If there is any solace in this it's that there are a lot of superintendents in the same boat.

There were no problems for Scott Ainsworth, host superintendent, at River Falls Golf Club, in giving us a gorgeous day and golf course to play. In talking with Scott, like most of us, we were caught with great weather but lacking in a maintenance staff to get everything done. Sure makes for long days but the end results look good, like trying to only two putt #17. Thanks to Scott and your staff for a fine golf course and lunch provided for us. We do appreciate it very much. Thanks also to Mr. Al Ward, Professor at U of M, Waseca, guest lecturer on "Personal Stress Management", where it comes from, why we get it and how to deal with stress before it gets into the ulcer stage or worse. I hope everybody there picked up and read the handouts on stress. It should at least point out and make us aware of some of the symptoms. Taking

stress one step further was an impromptu talk by Mr. Herb Brooks (ex N.Y. Ranger, Olympic and possible North Stars coach) about stress in coaching in the Big Apple and coaching in general. It was a very rewarding morning thanks to both of these gentlemen. The following contributors to the HOLE NOTES should also be thanked: James Kaufman, MTI Distributing Company, Mark Poppitz, Island View C.C., Scott Hoffmann, Madden Inn and Golf Club, Jerry Anderson, Dakota Turf and to those who submitted questions to be answered. Speaking of questions, they have not exactly been filling my mail box. If this section is to be continued, it has to have better participation than present time is showing or it will end up in the big water hole in the sky so send them to me without names and we'll get you your answer.

There will not be a meeting/golfing in June due to Turf Expo, June 19 and the picnic, June 30. Golf is available June 19 from 11:30-1:00 at the following clubs: Daytona, Greenhaven, Majestic Oaks and Sundance. You must call ahead for tee times. We would like to see you at the Turf Expo before you go golfing. It's very close to all golf courses. Plan on attending the July 8 meeting at Northland Country Club. Mr. David Legg, Ransomes Company, will be speaking on "Lightweight Fairway Mowing" and Turf Supply Company will also have a speaker.

On a sad note, Lyle Cran, superintendent at Stillwater Country Club, passed away recently. As a gesture expressing our gratitude for Lyle's dedication to the profession, M.G.C.S.A. has sent flowers to his wife and family. Our condolences go out to them.

See you at the Turf Expo!!

Coming meetings:

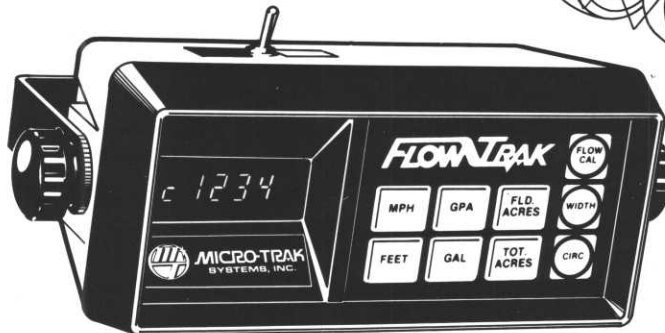
Aug. 12: Island View Country Club
Mark Poppitz, host

Sept. 9: Guest Day Scramble at
Hazeltine National G.C.
Chris Hague, host

Oct. 7: Golden Valley Country Club
Mike Olson, host

CUT OUT THAT GUESSWORK!

FLOWTRAK™
SPRAYER MONITOR



INACCURATE APPLICATION IS A MAJOR EXPENSE

- - UNDER APPLICATION MEANS POOR RESULTS AND A REPEAT
- - OVER APPLICATION CAN MEAN DAMAGE AND UNNECESSARY COST

F L O W - T R A K PUTS THE FULL RANGE OF ESSENTIAL SPRAYING INFORMATION AT THE OPERATOR'S FINGERTIPS: speed in M.P.H., distance in feet, acres worked, gallons of solution applied per acre, total gallons applied and a whole lot more !

A N D T H E R E ' S C A L C - A N - A C R E
FOR THE SAME ACCURACY WITH DRY MATERIALS

F L O W - T R A K or C A L C - A N - A C R E WILL MORE THAN PAY FOR THEMSELVES IN ONE SEASON'S USE !



WE'LL GIVE YOU ALL THE DETAILS
ON THIS "COST EFFECTIVE
GROUNDS MAINTENANCE"

R.L. Gould Co., 3711 Lexington Ave. No., St. Paul, MN / (612) 484-8411