



MIDWEST BREEZES

Just what is **Red Leaf Spot**? Is it a fungus disease that attacks only one strain of bent grass? Is it just C15 found at **Butler National Golf Club** and **Westmoreland C.C.**? Is it some other problem found at these golf courses with this certain strain of turfgrass? This editor has been living with various turfgrass diseases and various strains of grass for many years, so I am not ready to condemn a certain strain of grass. I know that there are many golf courses in the Chicago area with this same strain and they do not have this problem. I would suggest that before anything drastic is decided on, one should do a little research work. Take a sample of the soil from one of the problem greens, and a sample of the soil from a green at a golf course with the same strain of bent grass that has no problem. Have the soil analyzed to see if there is any difference. Check the maintenance practice such as fungicide, fertilizer, also send in a sample of the irrigation water. I know from experience that all strains of turfgrass will not accept the same chemical. This was proven several years ago on a Washington strain and cost the company several thousand dollars. This problem C15 strain has been on greens for over twenty years and has proven to be one of the best. Let us not be hasty in condemning this strain of bent until a diagnosis of the problem has been completed. We may also check if the fertilizer or chemical companies have added anything to their product.

Are the agronomists that were called in to give their professional opinion, in regards to this problem on certain C15 greens in the Chicago area, really sure it is Red Leaf Spot rather than some other element. If their diagnosis of Red Leaf Spot is correct, why can't they find a fungicide that will stop this disease? We have fungicides for the control of Pythium, Large Brown Patch, Dollar Spot and many other turfgrass diseases. If they are sure this is a disease and not trouble caused by some other element, some research work should be started at the earliest date possible. This problem is serious!

If you have anything of value to offer pertaining to this problem, please send it to me and I will publish it in the next issue. The deadline is the 10th of the month.

The M.A.G.C.S. July 7th meeting held at Medinah C.C. was enjoyed by over one hundred ten who played golf on #3 course. The super course condition was made possible by host Supt. **Don Pakkala**. The educational part of the meeting was very interesting, Red Leaf Spot was the main topic. Many Supt. along with agronomists from Illinois, Ohio, Michigan and our good friend **Dr. Daniel** from Purdue held the spot light for most of the evening. So far the Red Leaf Spot problem is not solved. More research work is necessary.

The M.A.G.C.S. August 4th meeting will be held at Randall Oaks C.C. Our host Supt. will be **Sterling Hamilton**. Bring your golf clubs and enjoy a day of relaxation. This will be a cookout and plenty of good food will be available. It will also be seniors day and they will be guests of the association.

On Sept. 18th there will be a field day on Clavey Rd. More information will come your way at a later date.

Our deepest sympathy is extended to the **Leith** family due to the death of **Bill Leith's** mother. Bill is the Supt. at Elgin C.C.

Joe Canale, retired Supt. from Deer Park C.C., has been in contact with the hospital and will be checking back again in November. Joe says nothing serious!

Peter Voykin, Supt. at Idlewild C.C., reports his club is in the process of installing a two row Toro automatic irrigation system. I am sure Peter is one happy Supt.

Ed Fischer, Supt. at Butler National G.C., reports his club is changing the strain of bent grass on their greens from C15 to a new strain called Penneagle. This strain was developed by **Dr. Joseph Duich** from Penn State. **Dr. Duich** will also supervise the seeding of the greens around the middle of August. Good luck, Butler.

Dear Ray,
Solace through a fantasy?

"HELPING HAND"

When you're preyed upon by Fungi,
And Insects choose your greens to chew.
It would be nice to have a Genie,
As a member of your crew.
He could wave his magic wand,
And your troubles soon would pass.
To awaken from a dream so fond,
Would surely be a blast.

Superintendently,
Kenneth R. Zanzig
Green Garden C.C.

DISPOSABLE BUTANE LIGHTERS

The Georgia Highway Contractors Association, Inc. new report relates that in the last couple of months the Union Pacific has had two fatal accidents caused by butane lighters. The accidents occurred in welding areas when an employee was welding with a butane lighter in his pocket. A spark from the welding landed on the lighter, burned through the plastic shell and ignited the fluid in an explosion. One individual had the lighter in his shirt pocket and he was killed instantly. The other has his in a pants pocket and the explosion amputated his leg and he died later.

There is the same amount of force in a butane lighter when it explodes as there is an approximately three sticks of dynamite.

Golf course mechanics and others using welding equipment should be aware of the dangers involved with having flammable and combustible materials close to welding areas. Even the most seemingly innocent objects may be dangerous!

The Georgia Turfgrass News

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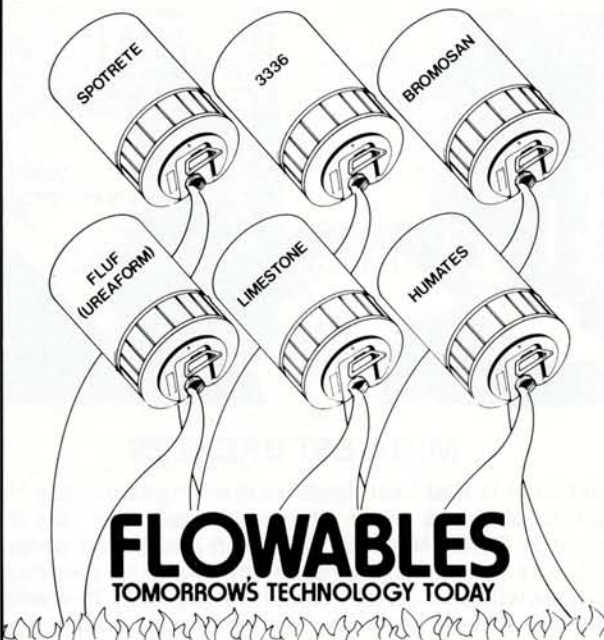
ASK THE MAN WHO HAS USED IT.

HUMUS — BLACK SOIL

HENRY FRENZER

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60102



The diagram shows six cylindrical containers, each representing a different fertilizer component. They are arranged in two rows of three. The top row contains containers labeled 'SPOTRETE', '3336', and 'BROMOSAN'. The bottom row contains containers labeled 'FLUF (UREA-FORM)', 'LIMESTONE', and 'HUMATES'. Each container has a nozzle at the bottom, and lines connect these nozzles to a single point above the word 'FLOWABLES'. Below the containers, there is a stylized representation of a grassy field.

FLOWABLES

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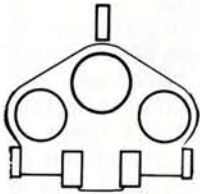
BUILT LIKE A BATTLESHIP

THOSE DARN "HECKS"

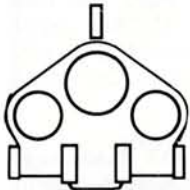
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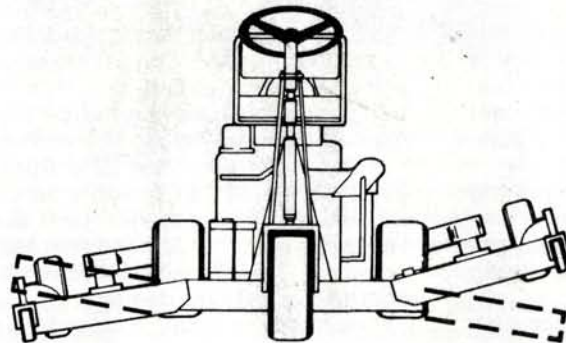
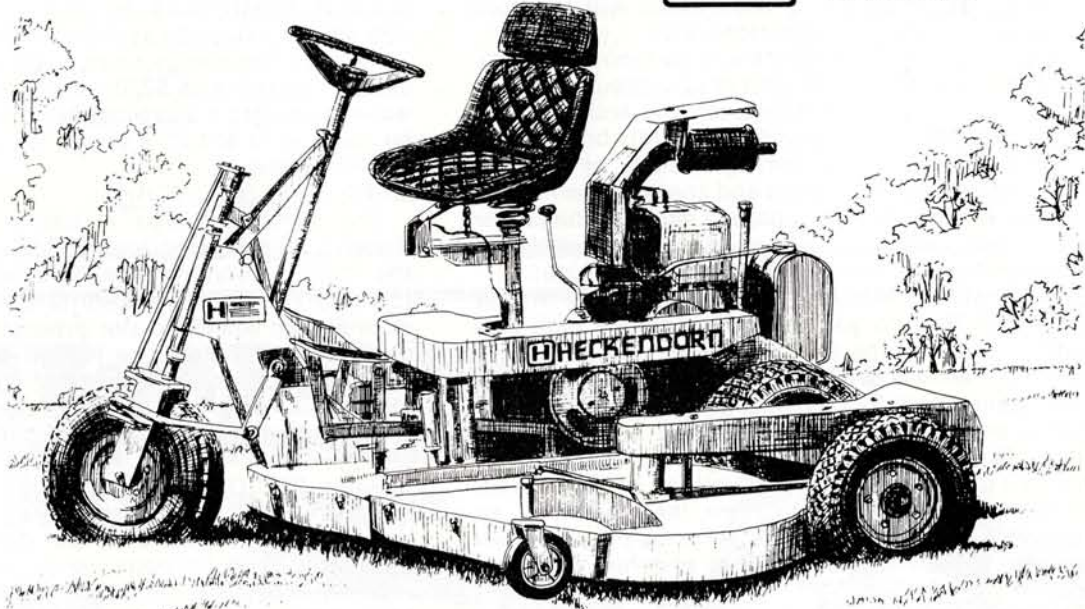
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GETTING THE MOST FROM YOUR EMPLOYEES

The best executives, those who climb highest in any organization, are those who get the job done on time and with a minimum of uproar and confusion. Those who try to keep a finger in every pie, hustling all the time to try to do everything themselves, are as much a failure as those who delegate everything and let every situation get out of hand.

In other words, your success is directly tied to that of your employees. Your appraisal of their capabilities and your willingness to trust them to take care of important details is as important to your managerial performance as your own abilities.

If you can get your employees solidly behind you, your unit's productivity will go up and many of your major headaches will solve themselves. On the other hand, if your problems and needs as a supervisor leave your employees cold, chances are those problems are only beginning.

Employees who believe in what they are doing and the person for whom they are doing it are much more willing to make personal sacrifices in times of crisis and difficulty. They will display a higher level of interest and enthusiasm in their work, and their attitude toward your organization and your department will be more conducive to a high level of performance.

A healthy sense of teamwork and harmony will make your employees proud to be part of your group and keep things running smoothly even when you aren't around to supervise. When your people are solidly behind you, they will help boost your personal image by thinking well of you among themselves and speaking well of you to others. Finally, as you prepare to move up the ladder in your organization, you will be in a better position to develop and groom key aides to take over your job.

The question is, how do you instill this loyalty in your employees? How do you keep their morale high in a business that runs the gamut from very slow times to periods of frantic activity?

One good way is by recognizing their achievements, abilities and talents. Everyone has a ego that likes flattery. Deserved praise and recognition from the boss go a long way toward motivating an employee. Unfortunately, many bosses think the content of an employee's pay envelope is thanks enough, and when they want to reward someone, they give him a raise or bonus.

The additional income is always welcome, but public recognition can sometimes go just as far toward making an employee feel valuable. If a raise is made public knowledge, other employees may feel envious and their work may suffer.

Scouting's merit badges provide a good motivation example. However basic the level, each merit badge shows that the wearer is competent in a specific area. As more badges are acquired, pride in accomplishment increases proportionately, especially when accompanied by a public ceremony.

Granted, no employer wants his workers swaggering through the shop wearing merit badge sashes. However, the idea is there -- publicly recognize skills and give those employees who perform well something concrete to show off.

Design a series of certificates or wallet cards for such skills as fairway maintenance, greens mowing, trap maintenance or chemical application. After all, these are important skills, and employees who are proficient in them deserve to be recognized. Or, if your club or company has an employee newsletter, make sure your people who deserve it are prominently mentioned. With

some thought, other subtle and innovative ways can be found to encourage employees to feel justifiably proud without being too immodest.

By recognizing skills and encouraging employees to develop their abilities, you can make them feel that they are a valuable part of your organization. When they feel good about their jobs and are motivated to be more productive, they make you look good. And all you have invested is a little time and consideration.

The Fore Front

RIDER 22- CAN IT HELP YOU??

I may have wasted \$1,780 last year on electricity!! That amount was 68% of my electric bill for watering Shoreacres in 1979. With Rider 22 and a little care, it might be saved in 1980. Here is my story in case it might help others.

Unfortunately, electricity for irrigation has been in our clubhouse budget rather than the golf course budget. Yes, I mean that because I never saw the electric bills until, out of curiosity, I looked at them this Fall. I found that on commercial accounts there is something called a "DEMAND" charge in addition to actual Kilowatt Hours (KWHr) of energy used. For a golf course irrigation system this demand charge can far exceed the energy charge (Ex: Our April bill was \$10 for energy and \$220 for demand). With a night watering program and Rider 22, the demand charge can be reduced to \$21.85 a month according to Commonwealth Edison.

HERE IS HOW IT WORKS:

The demand charge is based on the **maximum** Kilowatt (KW) usage for any half-hour period during the month. Commonwealth Edison charges \$4.40 (Summer) or \$3.96 (Winter) for a KW of demand. For example, an electric motor producing one horsepower draws approximately one KW of demand. Therefore, this motor run for only one half-hour a month at full load would result in a \$4.40 demand charge (Summer) plus approximately 2 cents for one-half KWHr of energy.

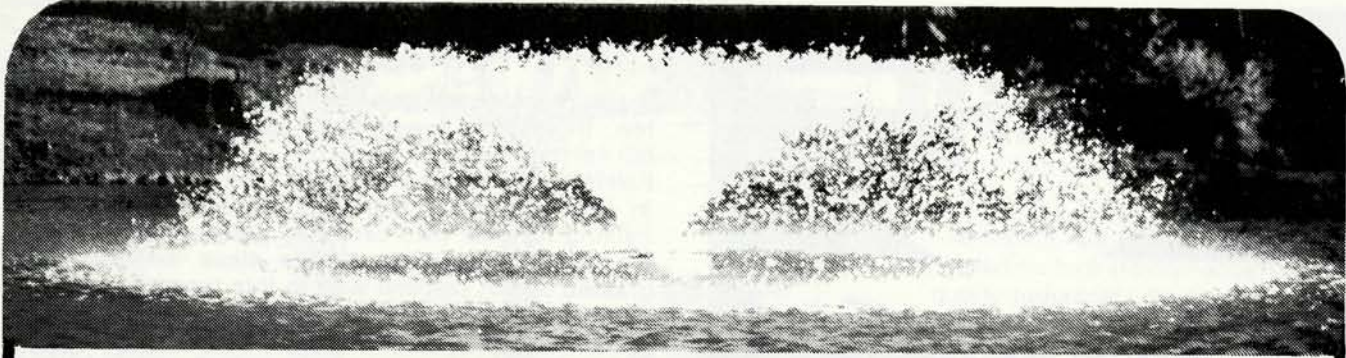
Rider 22 "Off-Peak Demands" states that for a \$21.85 monthly service charge to install a magnetic recording meter **all Off-Peak demand charges are eliminated**. The Off-Peak period consists of all hours except the daytime period of 9:00 a.m. to 10:00 p.m., Monday through Friday. Major Holidays are also Off-Peak periods. Under Rider 22, "...the maximum demand for the month shall be the maximum demand... established during the daytime period."

With some care to keep those big pumps OFF during the day, significant savings could be realized! Granted, some daytime watering is necessary such as syringing or hand-watering. But, if I only turn on my smallest pump for these uses and maybe take a little more time, my demand charges can be minimized.

I plan to start on Rider 22 in April, 1980. I should also say that the \$21.85 monthly service charge is for 12 months a year and not just during the Summer. However, my 1979 demand charges were over \$2,000 so potential savings would have been \$1,780 minus charges for daytime demand.

I recommend taking a close look at your electric bills and contacting your service representative at Commonwealth Edison for details. Also, don't forget that cart building! It may pay to have a separate meter under Rider 22 installed.

**Thomas A. Rader, Supt.
Shoreacres**



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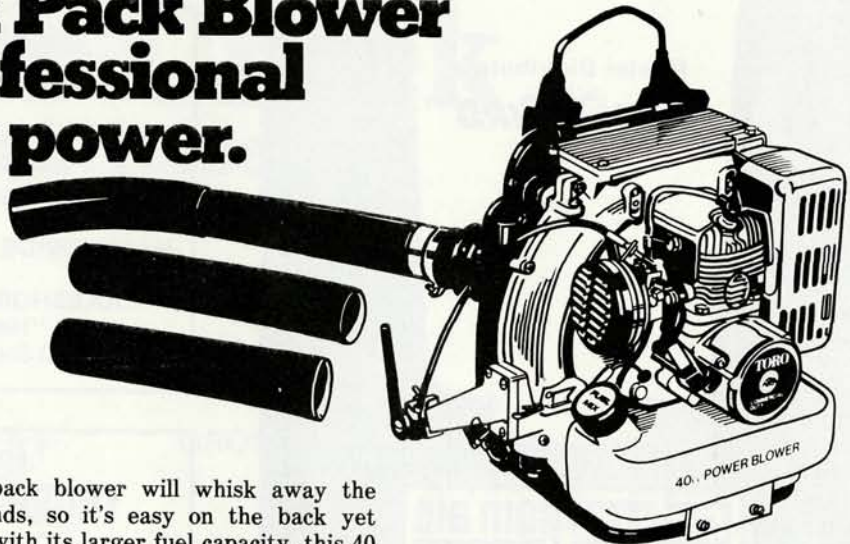
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CHOOSE THE RIGHT GRASS FOR CLOSE MOWING

If you're interested in a lawn that can be mowed very low, there are a few grasses around that will fill the bill in the Kentucky bluegrass field. One of them is Fylking, a patented variety that can be mowed as low as one-half inch. Some homeowners have seeded Fylking for their own backyard putting green because the blades can withstand the close mowing. Most grasses do not respond well to this type of treatment. They die back, become sparse and permit weeds to invade and ruin the texture of the turf.

Fylking leaf blades are gently arched and bend back at such a wide angle that they end up essentially parallel to the ground. This, combined with a short sheath and abundant tillering, results in a felt-like surface suited for superb lawns as well as many uses untypical of bluegrass, such as a home putting green. These same advantages make the grass particularly suitable for golf fairways as well as regular home lawns.

Fylking has proven to be a good seed for use in commercial lawn grass mixes, and because of current heavy production, is among the lowest priced elite Kentucky bluegrasses.

Fylking has the strange characteristic of being only a fair seed producer, which ties in with good-looking turf. Ordinary bluegrasses produce culms in the spring which are seed bearing stalks. Each seed stalk is tough, wiry and mows poorly. It dies instead of remaining green through the summer and detracts from the appearance of the lawn.

Fylking, by comparison, is not inclined to throw seedheads and escapes to a great extent the early summer drain on vegetative growth characteristic.

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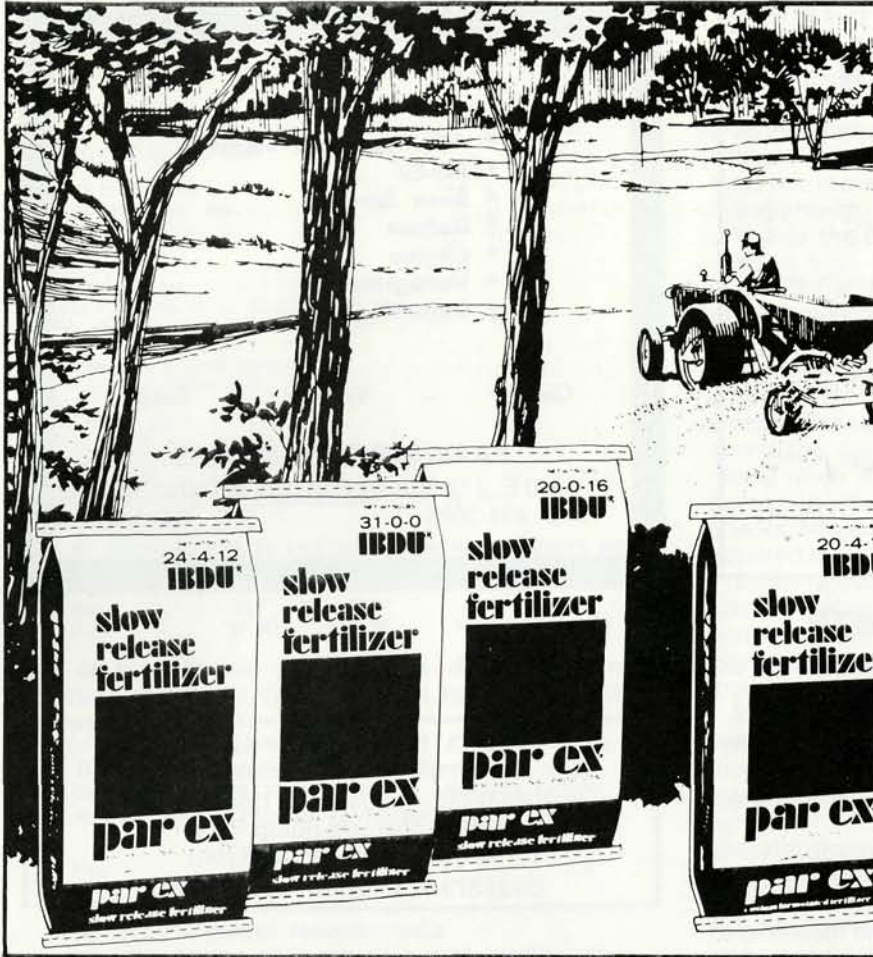
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THOUGHT FOR THE MONTH

Suppose every member worked as hard or as little as you do.

Suppose everybody did what you did.

Suppose every member attended with the regularity you do.

Suppose every member served on as many projects as you do.

Suppose every member treated guests as you do.

Suppose every member contacted and brought in prospects as often as you do.

Suppose every member supported ways and means and special events as you do.

Suppose every member were as tactful and understanding as you are.

Suppose every member were as friendly, thoughtful, considerate and appreciative as you are.

Suppose every member were as dependable, conscientious, enthusiastic and willing as you are.

Suppose every member had as many, or as few alibis as you do.

Suppose every member followed your example.

What kind of an organization would it be?

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No matter how happily a woman may be married, it always pleases her to discover that there is a nice man who wishes that she were not.

H. L. Mencken.

SUPPORT YOUR ADVERTISERS

Stephen T. Biggers and David Shifley, both seniors in Turf Management at Purdue University, have each received a TUCO Turf Scholarship for 1980 from Russell H. Tiller, TUCO representative.

The annual scholarships are sponsored by TUCO, Division of The Upjohn Company, to assist turfgrass students in meeting their educational needs. The scholarships are awarded for scholastic ability, personal integrity and professed career interest in turfgrass management.

Biggers is the son of Mr. and Mrs. Stephen T. Biggers of Carmel, Indiana, and Shifley is the son of Mr. and Mrs. Orlo R. Shifley of New Haven, Indiana.



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USEFUL INFORMATION

1 cu. ft. = 1,728 cu. in.
 1 cu. yd. = 27 cu. ft.
 1 acre ft. = 1,613 cu. yds.

1 sq. yd. = 9 sq. ft.
 1 acre = 4,840 sq. yds.
 1 acre = 43,560 sq. ft.

1 lb. = 16 oz.
 1 oz. per 1,000 sq. ft. = 2.72 lbs. per acre
 1 lb. per 1,000 sq. ft. = 43.6 lbs. per acre
 100 lbs. per acre = 2.3 lbs. per 1,000 sq. ft.

1 tablespoon = 3 level teaspoons
 1 oz. = 2 level tablespoons
 1 pint = 16 ozs.
 1 quart = 32 ozs.
 1 gallon = 128 ozs.
 1 oz. per 1,000 sq. ft. = 2.72 pints per acre
 1 gal. per 1,000 sq. ft. = 43.6 gal. per acre
 100 gallons per acre = 2.3 gallons per 1,000 sq. ft.

*LOSS OF PRESSURE DUE TO FRICTION IN ORDINARY RUBBER HOSE EXPRESSED IN POUNDS PER SQ. INCH PER 100 FEET OF LENGTH

Size Hose	1/2"	5/8"	3/4"	1"
10 G.P.M.	99.50	33.20	13.80	3.38

*LOSS OF PRESSURE DUE TO FRICTION IN UNLINED IRON PIPE EXPRESSED IN POUNDS PER SQ. INCH PER 100 FEET OF LENGTH

Size Pipe	2 1/2"	3"	4"	6"
200 G.P.M.	18.7	7.7	1.9	.26

*LOSS OF PRESSURE DUE TO FRICTION IN ASBESTOS CEMENT OR PLASTIC PIPE EXPRESSED IN POUNDS PER SQ. INCH PER 100 FEET OF LENGTH

Size Pipe	2 1/2"	3"	4"	6"
200 G.P.M.	9.9	4.08	1.0	.14

*WATER PRESSURE TABLE POUNDS PER SQUARE INCH AND HEAD FEET EQUIVALENTS

100 head feet = 43.31 lbs. per square inch
 100 lbs. per square inch = 230.90 head feet

1 gallon of water = 8.337 lbs.
 1 gallon of water = 231 cu. in.
 1 cu. ft. of water = 7.5 gallons
 1 cu. ft. of water = 62.5 lbs.
 1 acre inch of water = 27,154 gallons
 1 acre foot of water = 325,850 gallons
 1 in. of rainfall = 100 tons of water per acre

Water expands 1/11 of its volume upon freezing.

SCOTTS INTRODUCES NEW TURF FUNGICIDE

A new fungicide product for golf course and other fine turf areas has just been introduced by O. M. Scott & Sons. Called ProTurf Fungicide VI, it is designed to prevent and control dollar spot, brown patch, leaf spot and red leaf spot. It also controls Fusarium patch in Washington, Oregon and California. This new fungicide product is even effective on the benzimidazole-tolerant strain of a dollar spot. It will prevent the development and spread of the above listed fungus diseases as well as the thinning of turf which is frequently connected with these diseases, according to Scotts® researchers.

For best results, ProTurf Fungicide VI is recommended to be applied as a **preventive**, prior to disease activity. Normal turf density and color will be maintained by such a preventive program.

ProTurf Fungicide VI is designed for use on turf consisting of bentgrass, Kentucky bluegrass, perennial ryegrass, fine fescue, bermudagrass or St. Augustine-grass.

MOWER ADJUSTMENT AND SPEED

The **Bull Sheet** editor, being one of the older men in the golf course maintenance work, has decided to do a little investigating on what is happening in regards to mowing fairways and rough. Surely the precision work is more refined on a mower today than years ago. This does not make it more fool proof and this statement is being proven. Who is at fault if the bed knives get wavy and also the reel blades? The pride that the operator used to have in his work seems to be a lost art. The older men with years of experience in mowing are still getting by with very few problems. So the trouble must be due to the operator and also the man who adjusts the mowers. The reel blades and the bedknife should be adjusted so they just touch each other all the way across. One may call it zero, zero. The next step is the speed the operator should travel. Will he reduce his speed when making a short turn? I doubt it, unless the person in charge make it a definite order and then checks occasionally to make sure his order is being adhered to.

Mowers used to cut sparse turfgrass should be very carefully adjusted. In occasions of this kind there is not enough grass leaves to keep the edges of the reel blades and bedknife lubricated. When this takes place, look out for trouble.

What are some of the other reasons that bed knives get wavy. One of them surely is the speed that the mower is traveling. Did you know that a tractor traveling five miles per hour, pulling a seven gang Toro fairway of Toro rough mowers with 14" wheels, and the operator makes a short turn so the inside mower is not moving forward and the speed not reduced, that the outside mower is traveling nine miles per hour and the R.P.M. of the reel is 1638. On a nine gang under the same circumstance the outside mower is traveling ten miles per hour and the reel has an R.P.M. of 1797.

Looking at it anyway you want to, this is too much speed and I am sure lawn mowers are not made to be operated in this manner.

Many times one notices tractor wheel impressions in the fairways, mostly near the outer edges. This can be overcome by straddling the wheel marks each day of the week. On one day of the week put the outside mower out of gear and raise the rear part of the mower.

The question many times is asked, how does the bedknife and reel blades get wavy on the mower behind the tractor wheels. The cause of this is usually due to the mower being adjusted too tight and the grass is pressed down by the wheel leaving no green grass to lubricate the bedknife and the reel blades.

How about making a resolution this year; "no more injury to the bark of the young trees." A good resolution for the tractor operator.

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We hope **Ray Gerber** has a speedy recovery from his stay in the hospital, where he put the **Bull Sheet** together. Get well soon, **Ray!**