

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.

ASPHALT DRIVEWAYS — PARKING LOTS — ETC

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RAY MURPHY

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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!**