LCG Tractor with tire equipment

Ford 2000 LCG tractor, above, equipped with 18.4-inch low-pressure, high-flotation tires. In addition to low turf pressure, the broad tread provides superior traction to minimize possibility of wheel spin when starting heavy loads on soft footing.

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THREE TIRE OPTIONS
18.4 x 16A 6-
Dual 8.3 x 24,
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4-ply tire.
Elmer Border, supt. of El Caballero CC, Tarzana, Calif., was chairman of this assembly which was devoted to administrative problems. On the platform with him were Leonard Berry of the International Consumer Credit Assn., St. Louis; Don Wright, supt. of Royal Palm Yacht & CC, Boca Raton, Fla.; William A. Northern, vp, Manncraft Exhibitors Service, Miami Beach; and Charles G. Wilson of the Milwaukee Sewerage Commission, who showed a film, “Tricks of the Trade.”

Brainwashing by Letter

Leonard Berry, a credit man, interspersed his talk with a dozen examples of offbeat letters he has collected over the years. Several of them brought out the point that even though some people may be broke and can’t pay their bills, they don’t necessarily lose their sense of humor. The theme of Berry’s speech was “Do the letters you write make people want to join the club? spend money? help you out?”

He then proceeded to outline how letters that get the attention of the reader are composed. The “Dear Sir” or “Dear Robert” can be dispensed with in most cases, Berry said, and a warmer salutation, such as “Hello Bob,” substituted. Letters that get people to move usually are mentally composed before they are written, with the likes, dislikes, interests, etc., of the persons whom they are to be sent, kept uppermost in mind. Berry advised the audience to study words with the idea of using those that paint a picture or punch home a thought.

The word, “You”, he declared, is too often neglected in personal letters. So, too, is the complimentary phrase or expression. Three out of four letters the average person writes are for the purpose of asking a favor or winning a concession, so playing to the ego of the recipients of your letters is an effective method of brainwashing. But it has to be subtle or your underlying motive is easily detected.

The Comprehensive Budget

Don Wright, one of the more accomplished of the younger men in the greenkeeping business (and an exceptional speaker, by the way), gave a detailed discussion of how to prepare a budget and then sell it to the grounds committee. Wright divides his request for funds into 20 different categories that include everything from salaries to capital expenditures. The latter, he noted in passing, is often overlooked when the original budget is drawn up and may put the supt. in the uncomfortable position of later having to ask for a supplementary allotment when a piece of equipment breaks down. Four out of five green committee members will wonder why this wasn’t covered in the first place and it usually results in the supt. being downgraded in their estimation.

“The surest way of getting the money

Moote Is Youngest Man to Hold GCSA Presidency

David S. Moote, supt. at Rosedale GC in Toronto, who is the president of the GCSA for 1964, represents the new breed of greenmasters. Not only is he the youngest man to ever hold the president’s post but he is believed to be only one who has had an advance degree in turf science. Moote received his bachelor’s degree in 1951 from Ontario Agricultural College in Guelph and then went on to do graduate work at Rutgers. He is the third Canadian to be elected president of the GCSA.

Moote is a past president of the Ontario GCSA and has been a director of the national organization since 1961. His green committee at Rosedale insists that he play golf at least once a week and he shoots around 80.

Now, preparation of the fine, uniform top dressing required for greens and tees can be a mechanized operation by using the latest of Royer's golf course-designed equipment—the powerscreen. This unit combines the screening and conveying of top dressing into a one-step operation. A sloped-deck, vibrating screen prepares the fine top dressing mixture and a discharge conveyor moves the mixture away from the screen to a height convenient for either stockpiling or loading small trucks or trailers. Ruggedly constructed, the powerscreen features—

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When the powerscreen is used in conjunction with a Royer Shredder, both top dressing quality and production are improved. The shredder "Royerates" the top dressing ingredients by a cleated-belt action that shreds, aerates, removes non-shreddables, and blends the ingredients to a homogeneous condition. In addition, the shredder feeds the vibrating screen at an angle and height that assures maximum production.
you're after," the Boca Raton greenmaster said, "is to come prepared with past cost figures, and estimates of what material and labor are going to cost in the coming year. Be prepared, too," he added, "to give a breakdown of the expense involved in every treatment or application you expect to make, even if it means dealing in ounces. Some green committee members have a genuine interest in the details, while others may be merely testing you to see if you know your business. In any event, you should be prepared to answer both."

**True Cost Picture**

According to Bill Northern, who spoke on the subject of time management, most supts. don't have a clear conception of manhour requirements on all the jobs they supervise. Actual working time may be known, because it is possible to put a clock on operations such as green or fairway mowing, spray applications, etc., but what often is overlooked is transport time and time spent in repair and cleanup work. Each factor has to be weighed in getting a complete cost picture.

The easiest way to run a course maintenance operation, Northern continued, is to set up a rigid time schedule, and then work toward meeting it. "It isn't easy at first," the Miami Beach efficiency expert said, "because deadlines are constantly beating you. But if you persist, everything eventually will straighten out and make your job much easier." Besides a primary schedule, Northern advised the supts. to work out an alternate or secondary one...
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ATLANTA GEORGIA

March, 1964
Supts. Joe Butler and Homer Whitson (r) are seen with their wives at the Hospitality Hour get-together. Mrs. Whitson is at left and Mrs. Butler in the center. Mrs. John O'Connor also appears in the photo.

so that hours, and even days, aren't completely lost when the regular routine is disrupted.

Finally, he suggested that the greenmasters give no little thought to preparing detailed reasons why certain jobs aren't completed on time. "These should be foreseen and prepared in advance," he concluded. "Nothing beats them for getting people off your back."

Dance of the Tractors

The Milwaukee Sewerage film, shown and narrated by Charlie Wilson, encompassed the best of no less than six photographers. The entire sweep of course maintenance was covered in the 30-minute epic, and such idyllic spots as Quail Hollow in Charlotte, S.C., Saucon Valley and Bob O'Link in Chicago were visited by the cameramen. The viewer saw such disheartening sights as the ravages of winterkill and the effect that an overdose of chemicals can have on turf, and he was asked to sit through mundane showings of turf plots, the laying on of topdressing and the assault on the sod webworm.

But he was rewarded, too, and his heart was lifted up by a tractor-mower ballet that was performed at Westchester CC. In this, four pirouetting tractors, trailing agile seven-gang mowers, danced beguilingly across the broad savannahs to music, as it always is with a Sewerage Commission movie, that was exhilarating. If Charlie Wilson, who spliced the film and arranged the music ever deserts agronomy he should have a job waiting for him. He's a combination of Disney and Stokowski.

Third Session

The Agronomists Agree:

Balance is Basic

The technical aspects of turf management were discussed for the first time in the third meeting. Chairman Beryl S. Taylor, Iowa State U. course supt., introduced Dr. Roy E. Blaser, Virginia Polytechnic agronomist, Dr. Marvin S. Ferguson, national research coordinator for the USGA, and Dr. James R. Love, who is carrying on a research project at the U. of Wisconsin with the aid of Noer Foundation funds.

Caution in Application

Discussing the ecology of nitrogen breakdown, Roy Blaser emphasized that the application of fertilizer is not to be taken lightly, but is a continuing study of timing and effect. Perhaps because soil reaction is not fully understood, even constant application rates from year to year and in different seasons, may give rise to widely disparate results. It is because of this that the supt. is wise to practice some caution in his fertilizer program and not go to extremes at any time.

Overstimulation of turf, Blaser declared, undoubtedly is the chief cause of

Kids attended the convention, too, although there was no explanation of how they managed to duck out of school. Maybe photo was taken on Sunday.
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March, 1964
wilt, even if it may be an indirect one. This condition goes back to the formation of thatch which, to a great degree, is a product of overfeeding. What happens is that when thatch builds up, roots become more shallow because infiltration of water and air circulation are reduced. In midsummer, with the onset of the wilting season, the thatch layer may be so heavy that the depleted turf roots aren't capable of supplying sufficient moisture to compensate for the water that the grass blades lose through transpiration.

**Contrast in Grasses**

Contrasting cool season grasses with Bermuda, Blaser said the reason that the latter can survive comparatively high nutrition rates during periods of extreme heat, while bluegrasses either perish or fade out, is that it is capable of reducing its starch reserve, but not to the dangerous extent that cool grasses do. The respiration rate of Bermuda also is lower in periods of extreme heat than is that of bluegrass.

Apparently even strong strains shouldn't be exploited by any forced feeding program. Balance, after all, Blaser stated, is the desirable thing. Cool grasses can withstand heavy fertilizer doses in the spring, but it should be remembered that these only encourage heavier incursions of poa annua.

**Neglect P and K?**

Since many agronomists, like everyone else, are impressed by the spectacular, or products that are well publicized, they are inclined to overlook the need for phosphorus and potassium and probably put too much dependence in nitrogen, said Marv Ferguson in discussing the major elements. "There is a chance," he added, "that these same agronomists are lucky that the soil is provident enough to supply its own P and K.

"Calcium, magnesium and sulphur are other elements that the soil needs in rather large quantities," the USGA man continued, "but these, too, and particularly calcium, are somewhat neglected. The soil and turf, like man, need a well balanced diet and if it isn't supplied, weaknesses are bound to show up. It has been well established that turf that has been fed all the elements survives either heavy acid or heavy alkali conditions and withstands disease, insect attacks and other setbacks more readily than those that are deficient in one or more of the elements."

**These Elements Are Enigmas**

Ferguson pointed out that at one time fertilizers contained a higher phosphate content than they do today because it was believed this element produced stronger root growth. Eventually, this (Continued on page 114)
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March, 1964
Forty years of building greens have convinced Alex McKay that bent can survive in the South. Good drainage is a must, depth of topsoil is critical. That's why he strongly recommends

**THE 8-INCH LAYER**

_by A. G. (Alex) McKay_

When I was a young man I spent three years in Egypt and observed many of their customs. One was that of keeping drinking water in stone jars and letting the water seep through the jars to keep it cool.

When I came to Tennessee to try to grow bentgrass, this is the method I used. I thought if I could build greens and let the water seep through the top soil to tile drains in the base of the greens, the soil would be kept cool. It worked and so I was the first to grow bent successfully in the Southern states.

I experimented further and found that too much top soil is not good in the South for growing bent. Good drainage is a must. This applies to both surface and base drainage through the use of sand in soil and tile drainage under the greens. The water must not stay too long in the topsoil but must be kept moving down to the tile drains. This keeps the soil cool so that bent can grow.

**Ordeal by Heat**

During 1952 my greens in Chattanooga survived when temperatures ranged from 102 to 107 degrees for 19 days, with only one day of 98 degrees during that time. The greens had to be watered by hand from 11:30 a.m. to sundown and one man took care of three greens. The greens came through in the highest temperatures, I believe, in which bent has ever been grown.

When I started building bent greens in the South, my method was to use 12 inches of topsoil. I since have experimented with different depths of topsoil. My findings are that the best results have been obtained with depths of from 7 1/2 to 8 inches. I have tried depths of from 4 to 25 inches. When using over 8 inches, the grass is not quite as good as it is in the 7 1/2 to 8 inch range.

At 25 inches the greens are a dismal failure. Now I stick to the 8-inch depth and during the hot humid months the grass always comes through in excellent condition. Greens with 12 inches of topsoil have not done too well.

However, you should not use less than 7 1/2 inches. This is enough to enable you to cut a clean hole with the hole cutter without going into the subsoil. New plastic cups are approximately 4 1/2 inches deep.

Sand must be carefully considered. The amount of sand depends on the soil being used. Ordinary soil needs around 120 tons of sharp sand for a 6,000 square foot green. Peat should not be mixed in the topsoil. Sand is added to the soil for drainage, and if peat is added it retards the movement of water in the topsoil. My method is to spread 1/4 inch of peat on the top of the green and rake it in with the fertilizer. This holds the water around the roots long enough for the roots to get the benefit of the water. The 1/4 inch of peat helps cushion the green and keeps it from getting too hard on top.

With this method of building, a layer of stone under the green is unnecessary, and, in my opinion, a useless expense. The water will get to the tile quicker with 8 inches of top soil than it will with 12 inches of topsoil and stones.

I have tried building greens with peat added to the soil. They are not to be compared to the greens without peat. With peat in the soil I contend that you get more diseases, especially brownpatch and pythium.

The 12 inches of top soil that I started with has become standard. Now I advocate 8 inches of top soil for better greens at less cost. They will also withstand the heat and humidity better. Topdressing should contain 15 per cent peat moss.

I have not written this to discredit anyone or any method of building greens, but instead to state what my experience has taught me in 40 years of construction.