The F133. A big reason he's a turf-care specialist.

Steve Moffett of S.V. Moffett Co., Inc., West Henrietta, New York, knows all about the equipment to take care of your turf. And that's one of the things that make him a turf-care specialist, just like the rest of us Jacobsen Distributors.

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The Jacobsen F133, five-gang mowing tractor. The best there is. Jacobsen designed the F133 for parks, schools, industrial sites, apartment complexes, cemeteries, golf courses. With plenty of features that make those tough mowing jobs faster and easier.

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The F133 has articulated reels that mow ahead of the tractor wheels and follow the contour of the turf. The result?

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NCA CONFERENCE IN REVIEW

The National Club Assn.'s board of directors, following its meeting in Atlanta, re-elected Cyril F. Brickfield to a second term as president. Filling out the remaining offices of the association were: George C. Delph, Lancaster CC, vice president, and Joseph J. Donoghue, Losantiville CC, secretary.

A review of the need for continuing education was presented in a seminar entitled, "Diploma-itis—A Disease or a Cure?" by Richard M. Landmark, executive director, Council of Hotel Restaurant & Institutional Education.

Dorwin R. Moll, executive director, Oakhill CC, presented an in-depth review of Oakhill's successful change to a general manager type of management.

A review of current cases before the Wage and Hour Board by labor attorney Harry Keaton stressed the need for extensive and accurate record and timekeeping methods. Discrimination by sex, equal pay for equal work and Wage Freeze enforcement rounded out this timely seminar.

The relationship between the manager and board, presented in "Who's at the Helm?" reviewed the areas of delegation of authority and manager goals and objectives.

A two-hour film covered all aspects of the Occupational Safety and Health Act, including standards, record keeping and enforcement.

Congressman Joe D. Waggoner Jr. (D-La.) reported on HR 11200, which would permit additional income for clubs still operating "substantially" for membership purposes. Committee report will define "substantially" to permit up to 15 per cent of gross income in outside business.


A report by Arthur E. Iredell and Lawrence P. Morgan, partners Harris, Kerr, Forster & Company, explored the state of the club economy and analyzed what has happened to clubs in the first year under the Tax Reform Act.

NCA's Tax Clinic, headed by the association's legal counsel, Jack P. Janetatos of Baker McKenzie, explored NCA's fight to exempt all clubs from price controls. Final regulations on the unrelated business tax are nearly complete, it was revealed, and are expected in midsummer. New regulations are expected to remove all record keeping requirements in the main dining rooms, but retain existing requirements in private party rooms. Reciprocal privileges between clubs will be restored, profits will be taxed.
ROOT GROWTH OF POA ANNUA NOT INFERIOR

The objective of this research was to determine the root growth of annual bluegrass (_Poa annua L._) in comparison to Kentucky bluegrass (_Poa pratensis L._) and creeping bentgrass (_Agrostis palustris Huds._) when grown under varying degrees of soil compaction. The bentgrass cultivar used was Penncross. The annual bluegrass and Kentucky bluegrass were cut at 1.5 inches; the creeping bentgrass at 0.5 inch. All three species were established from seed. Three degrees of soil compaction were established on a sandy loam soil. The specific bulk densities were 1.1, 1.25, and 1.4 grams of dry soil per cubic centimeter. These levels of compaction had previously been determined to be representative of conditions commonly found in the field. The experiment was established in a randomized block design of two replications. Following establishment, the turfgrass plants were watered as required to prevent wilt and were grown under controlled growth chamber conditions. Experimental data collected included root growth produced eight and 12 weeks after germination. Root weight was determined by the weight loss after ashing the samples.

No differences were noted in the comparative rooting ability of the three grasses, no matter which level of soil compaction was compared. Root growth increased proportionally with the bulk density. Evidently the degree of compaction at a bulk density of 1.4 was not high enough to cause a restriction in root growth. Finally, the root weight decreased with depth.

Comments: It is widely believed and is frequently stated in turfgrass literature that the root growth of annual bluegrass is inferior to that of Kentucky bluegrass and creeping bentgrass. Thus, one of the undesirable characteristics commonly cited for annual bluegrass is its shallow rooted nature. The data reported in this study, which is supported by an earlier study by Sprague and Burton in 1937, indicate that, contrary to the widely accepted belief, annual bluegrass is capable of producing a comparable degree of rooting to that of creeping bentgrass and Kentucky bluegrass. It is surprising how widely that concept has become accepted, even though no data supports this position.

Why has annual bluegrass become known as a shallow root species? It is frequently observed growing in compacted soil conditions where no bentgrass or Kentucky bluegrass is found. Under these conditions it would naturally have a more restricted root system. Perhaps this is how the idea that it is a shallow rooted species developed among individuals making only casual observations. Perhaps other species such as creeping bentgrass and Kentucky bluegrass could not have even produced as extensive a root system as annual bluegrass under those compacted soil conditions. Unfortunately, this possibility is not supported by the data reported here.
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IS ABOUT TIME because IBDU is slow release. IBDU is activated by hydrolysis (water), so it isn’t affected by sudden changes in temperature or bacterial activity. Use IBDU and avoid the sudden flush of growth that occurs when temperature or humidity rise, and cut down on the chance of disease infestation. And it won’t leach out when the spring rains come.

IS ABOUT TIME because IBDU will keep on feeding after the other products have stopped. IBDU releases twice the slow nitrogen of urea-formaldehydes, and will keep feeding at lower temperatures. IBDU will help keep your turf green longer in the fall—and green up sooner in the spring.

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Patterns showing rates of mineralization of IBDU and urea-formaldehyde.

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This year, when almost everybody else is introducing a '72 golf car that's really a '71, we're introducing a '72 golf car that's really a '72. With changes that amount to a lot more than plastic surgery.

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And you know how some golf cars want to keep on going even after you use the parking brake? The 1972 Pargo isn't one of them. Because we developed a parking system that holds every time.

For comfort and convenience, we also developed a golf bag mount that protects and holds any size golf bag securely every time. We recessed the wheels to keep water and dirt from spraying the golfer. We installed new drink holders and individual accessory pockets. We added a score card holder to the passenger's side.

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For a demonstration and name of your nearest dealer, write Ron Meade at Pargo, Inc., P.O. Box 5544, Charlotte, N.C. 28205. Or call him at (704) 596-6550. No matter what you ask him about Pargo, one thing's for sure: He won't tell you the same story you heard last year.

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because the rooting increased with bulk density. Future studies may support this possibility, providing higher degrees of soil compaction are utilized in the experiments. One must also consider the possibility that the rooting ability of annual bluegrass varies among its varieties, particularly among the widely different annual versus perennial types.

A number of recent studies concerning annual bluegrass indicate that we have not really understood this particular species, so common on golf course greens and fairways. We need to continue to develop a better understanding of its (a) growth habit, (b) specific environmental and cultural requirements and (c) specific adaptational characteristics, because it is the dominant component in a high percentage of the golf course fairways in the United States. By having a better understanding of the annual bluegrass plant the professional turfman will be better able to (1) select a cultural system that will discourage its encroachment into the desirable bentgrass and Kentucky bluegrass turfs or (2) if he chooses, to select a cultural system that will ensure its presence. The latter approach is utilized by a number of professional turfmen, perhaps by default, though, rather than through a planned program.

OTHER PAPERS OF INTEREST:


NEW CUSHMAN TURF CARE SYSTEM CUTS EQUIPMENT COSTS 35%...LABOR COSTS 50%.

The Cushman Turf Care System is a hard-working package of vehicles and turf care accessories. You save on initial purchase costs because instead of buying separate items of equipment, each with its own engine, tires and individual maintenance problems, you buy vehicles and a group of high performance accessories that will handle turf maintenance chores using the vehicle’s engine both for power and for transportation. Labor costs go down as much as 50% because these Cushman accessories are designed to work faster, do a better job (for instance, with the system you can now spike 18 greens in less than 2½ hours). And man-hours aren’t wasted in walking. Maintenance costs go way down too, for you have Cushman quality and less equipment to maintain. Cushman Motors and its nation-wide network of dealers stands behind each item in the system. Your best assurance of good service after the sale. Make us prove what we say. Mail us this coupon today.

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THE POPULAR TURF-TRUCKSTER

The highly successful work truck designed for turf. Your choice of 3 or 4 wheel models with 8.50 x 8 Terra Tires that can go anywhere without damage to turf, even in damp weather. And only the Turf-Truckster offers a hefty 18hp engine and power take off. Why buy and maintain many separate engines, when a Turf-Truckster with PTO can power and haul all these Cushman accessories as well as mowers and many other types of equipment?

NEW...Top Dresser For use with wide-box Turf-Truckster. Mounts in 3-4 minutes. Operated by power take off. No separate engine or tires to buy and maintain. Moving bed spreads dry or moist material. Rotating brush forces dressing downward in an even 36” pattern. Turf-Truckster has engine and ground-speed governor control for precise spreading rates. Saves time on the green and travels between greens 4 to 5 times faster than self-powered units.

NEW...Greens Spiker Spikes a 57-inch swath. Twice as wide as others. Aerates to 2½” depth on 1¾” centers. Turf guard fingers leave greens undamaged, ready for play. Operator raises or lowers unit from his seat with simple mechanical device. Travels between greens quickly with no loading or unloading. Up to 150 lbs. of weight can be added easily for hard packed soils.
NEW 8HP MINUTE-MISER

Now available with one-third more power for transporting supervisors and workmen and for towing ball pickers or the new low-bed utility trailer. Makes it possible for men to do much more work in much less time. Easy riding, easy to drive, easy on the turf with its fat 6.50 x 8 turf tires. The Minute-Miser has a new, powerful 8hp gas engine, yet is still competitive in cost with other vehicles offering far fewer quality features.

NEW...Low-Bed Utility Trailer Economical but rugged low-bed trailer with fat, turf pampering tires. 35" x 66" bed. Easily carries two hand mowers, tools or up to 250 lbs. of chemicals, trash containers or other equipment.

A covered cargo box for hand tools and light equipment is available, and the Minute-Miser can be fitted with an extra seat to make it a two-passenger vehicle. Headlight, taillight and horn are standard.

Fairway and Greens Sprayers High-capacity centrifugal pump powered by Turf-Trackster power take off. Spray boom, tank, hoses and other accessories go on and off as a unit in seconds. All components corrosion resistant. Spray calibration control so precise that chemical wastage due to overlapping or careless application is virtually eliminated. Can cut chemical costs 25%. A handgun for tree spraying is standard equipment.

Dump Bodies The big-box model (57" x 53" box) is available with manual or hydraulic dumping mechanisms. Both have swinging tailgates controlled from the operator's seat for metered dumping. Ideal for top dressing large areas or carrying refuse or soil. The hydraulic mechanism is powered from the PTO. The big box can easily carry up to 1000 lbs. of equipment or materials.

Cyclone Spreader This wide-area spreader is operated from the PTO and can be mounted in seconds. Holds up to 3 bushels of grass seed, fertilizer or other materials. Spread varies up to 40' depending on material and speed of operation.

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FRIENDS OF TURF HONORED
This month the uppermost thought in this writer’s mind is “Hooray for Herb and Joe Graffis!” The Green Section Award, given to these two outstanding friends of turf, puts the spotlight on the lifetime of service they have shared with all of us. No one who has met them and listened to their counsel can ever forget them. Others already have written eloquently of the many fine things they have done for golf. The one thing that has spoken authoritatively over the years has been GOLDFI- DOM, which the Graffises “raised from a pup” and developed into a voice of turf. I was fortunate when they invited me to write the Q & A column and the turf roundup (1950, 51, 52). It has been a joy working with them!

Thank you, Herb and Joe, for all you’ve done for all of us!

Q—Our new greens were seeded to Penncross bent in October 1971, then heavily mulched with straw. Now when I pick up a handful of straw the young tender grass (I have a good stand) comes up along with the straw. Can you suggest a way to remove only the straw? (Ohio)

A—The problem is familiar. Because the grass is not yet strongly rooted, I suggest waiting until spring. When the Penncross starts to show signs of deeper rooting, go over the greens with a sharp-bladed rotary mower set just above the tips of the grass blades. Then use a power vacuum to lift the chopped-up straw by air suction. This should remove a good portion of the straw without damaging the Penncross. Do not try to remove all the straw. As the grass grows the straw will rot. As the grass is mowed most of the visible debris will be taken away. Do not try to rake the straw off. No doubt you will devise improvements on this idea as you work with the problem.

Q—Two years ago the rains brought Poa annua into our greens. Is the Pennsylvania Turfgrass Council set up to do or to encourage work on Poa to change its characteristics to make it a more desirable grass? Geneticists are able to change markings on fruit flies and to vary the colors in sweet peas. They should

have “Penncross” greens that were planted to other types of bents that came in the seed, you may very well be seeing strain domination. To overcome this problem, if you have a mixture, overseed your greens at three-quarters pound per thousand square foot. This will also help in early spring and fall for two years. Use only Putting Green quality Blue Tag Certified Penncross bent seed.

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