

with new ideas for turf utility equipment

NEW...an even better Red Rider!

More driver comfort . . . ten new features. New drive chain take-up for longer chain life. Most reliable, most dependable work cart in the country. First in the 70's!

NEW...Red Rider's Spray-Mate!

An all-new, low volume sprayer for greens, tees, trees. Spray-Mate is a self-contained, 4-wheel, piggy back sprayer that needs only *one* man to load and operate. Fifteen-foot boom and fifty-foot hose with nozzle included. Has 65-gallon fiberglas tank, pump that generates 500 psi.

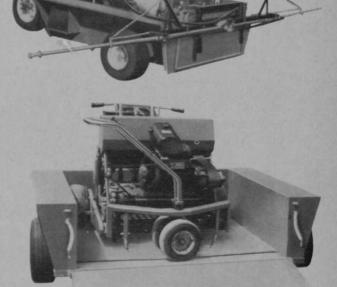
NEW..."Big Red"-an even bigger Red Rider!

Extra-wide Red Rider carries more men and equipment to more places with fewer trips. BIG RED easily handles the widest aerator or three greensmowers on its 56" broad deck. It's the *biggest* machine and *biggest* bargain on the fairways. BIG RED costs only slightly more than our regular RED RIDER

All Red Rider utility equipment is designed, engineered and manufactured solely for golf courses and other large turf areas.

ANOTHER REASON WHY YOU CAN BE "FIRST IN THE 70's," WHEN YOU GO WITH SMITHCO.

For more information circle number 236 on card



SMITHCO inc.

11 WEST AVENUE, WAYNE, PA. 19087

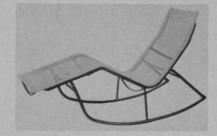
NEW PRODUCTS

Continued from page 80

Lyon Metal Products, Inc., offers free a 24-page steel shelving reference catalogue, No. 600-N, giving detailed product and ordering specifications as well as descriptive information of its line of steel and special purpose shelving.

Circle No. 122 on reader service card

Troy Furniture introduces a collection of all-weather casual furniture, called Esplanade. The collection is made of synthetic materials: The seating material is white Dacron mesh with a selection of vinyl trims; the frame is welded aluminum, which is available in a variety of colors. The collection includes an arm chair, stacking side and beach chairs, a



stacking-rocking loafer and a stacking sun cot and bench. The dining and occasional tables are made of molded fiberglass. Each piece has a base which will not sink in sand or turf.

Circle No. 123 on reader service card



Cony America offers Cony 360, a turf maintenance truck featuring low-pressure, wide-profile tires, heavy-duty transmission with four synchromesh forward speeds and a turning radius of less than 13 feet. A flat bed is provided with removable drop panels on both sides and the rear. Under \$1,500 at coastal ports.

Circle No. 124 on reader service card

American Locker Company, Inc., announces a line of coin-operated lockers which features the Selectomatic Lock with a built-in coin selector, visible coin return slot, safety interlock, tamperproof lock housing and optional three-digit cash accounting meters. Key blanks are non master-keyed. The lockers are available in 23 tones as well as polished or textured stainless steel. They are available in two single tier sizes, two double-tier sizes and nine multiple-tier sizes.

Circle No. 125 on reader service card





One type of "water hazard" Certain-teed pipe can eliminate!

Scorched, hard greens and fairways don't make for great golf games. An irrigation system can solve the problem.

There are two very important things you need to keep in mind when you plan an irrigation system. 1. Find a good contractor. 2. Use Certain-teed Pipe. Why Certain-teed? For one thing, we make both asbestos-cement and polyvinyl chloride pipe—A-C for large diameters and PVC for small. A-C and PVC pipe are compatible with one another and with other piping systems—tying in with old systems or expanding the system in the future present no complications. Certain-teed PVC pipe is white—white pipe is more dimensionally stable than colored pipe and easier to handle on the job. Our PVC pipe offers the design flexibility of either using a deep-socket solvent weld

joint or a unique leak-proof gasket coupling. Furthermore, you get the whole system from one source—deliveries are coordinated and everything works together.

When it comes to an irrigation system remember the

When it comes to an irrigation system, remember the two important points: 1. Get a good contractor. 2. Look for the bid that specifies Certain-teed pipe.

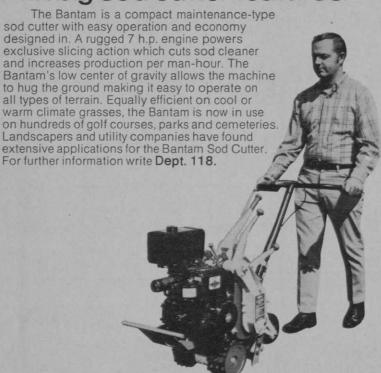


Piping and Plastics Industries

Certain-teed Products Corporation 540 Pennsylvania Ave., Fort Washington, Pa. 19034

For more information circle number 207 on card

The only compact Sod Cutter with big sod cutter features.



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TRANSITE **IRRIGATION PIPE**

CULTIVATION

Continued from page 46

practice, but only as needed to correct poor soil aeration, inadequate internal soil drainage, a compaction problem and other associated problems, such as localized dry spots. The first step, therefore, in the use of turfgrass cultivation practices is to assess the need. This is best determined by practical experience combined with a basic understanding of the principles of turfgrass cultivation.

The frequency of cultivation will vary greatly and is influenced by the (a) intensity and type of traffic, (b) soil-water content during periods of traffic, and (c) soil texture. Relatively sandy soils maintained at a low soil moisture content and subjected to controlled traffic may never require cultivation. On the other hand, fine textured soils tend to be quite wet are subjected to intense traffic and may require frequent cultivations. This may range from a monthly basis, in the case of coring, to a weekly basis, for spiking operations.

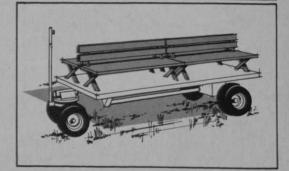
Turfgrass cultivation is best practiced during periods of active turfgrass growth. The reason for this is that the turf has a more favorable recuperative capability. Thus, it will provide the least potential for weed invasion and the most rapid rate of recovery to the original level of quality, which is particularly important on putting greens. A moist soil is desirable at the time of cultivation to insure deep penetration. Soils with a high water content should be avoided to minimize the degree of soil compaction which can occur during certain types of cultivation. The preferred periods for the cultivation of cool season turfgrass species is in the spring, late summer or early fall, whereas warm season species can be cultivated any time during the early summer to midsummer period. In addition, the timing of cultivation operations should be adjusted, whenever possible, to disrupt golf play only minimally.

For more information circle number 226 on card

Champion Doo-All Trailer







HERE IS THE ANSWER to your problem of moving heavy materials around your golf course.

Champion Doo-All Trailers, equipped with 1-cu.-yd. hopper and interchangeable flat bed, can help you do a hundred jobs more quickly and efficiently.

With the hopper in place, you can haul sand, top dressing, or any bulk load to where it is needed on the course. Lift off the hopper, remove four bolts and put the flat bed on, and you have the perfect vehicle for those many hauling jobs (sacks, drums, benches, debris) that come up throughout the year.

TERRA-TIRES Protect turf from rutting . . . Big, easy-rolling Terra-Tires spread the load over a 48" width of ground. You get the work done when needed without added problems of turf damage or ruts.

For big bulk loads, there is a Champion Trailer with 2 cubic yard hopper — See your equipment jobber or write for details.





The bright, yellowhandled RAKE-Ezee Rake flags attention, reminds golfers to rake trap. Stands erect on blunt metal point.

Sturdy, attractive, won't rust, yet low in cost. Rake-Ezee stands erect on point, reminds golfer to rake trap. Fully guaranteed with tough plastic head. See your distributor, or write:



For more information circle number 172 on card





EQUIPMENT & SUPPLIES

RANGES MINIATURES COUNTRY CLUBS PAR-3 PRO-SHOP Free Catalog

WITTEK Golf Range Supply Co., Inc.

3650 AVONDALE CHICAGO, ILLINOIS
For more information circle number 189 on card

PEOPLE IN THE NEWS



Clarke H. Staples has been promoted to assistant to the general manager of Jacobsen Mfg. Company's Rogers Div. In addition to his new duties, Staples will continue to supervise the Rogers product education program.

H.W. McCurley has been appointed vice president of operations of Certain-teed Badger Services, Inc.

Robert F. Hawkins has been named president of Wheel-Horse Products, Inc., a manufacturer of outdoor power equipment.

Vernon J. Worrell has been appointed a vice president of Ryan Equipment Company. He will continue to manage the company's engineering functions as well as assuming responsibility for the manufacturing operations.



John C. Tapas has been elected vice president, research and development of the Velsicol Chemical and Polymer Div. Velsicol also announced that Arthur D. Perrone Jr. has been appointed treasurer of the company and Tom Dlugos had been appointed agricultural chemicals sales representative for northern Indiana.

Harding L. Taylor has been appointed vice president-sales for Flintite asbestos cement pipe and PVX pipe products of the Flintkote Company's Pipe Products Group.

Elwood I. Lentz is the vice president and general manager of Stauffer Chemical Company's Fertilizer and Mining Div. He succeeds W.L. Dixon Jr., who has retired.

Larry V. Asarch has been appointed a field service supervisor for Jacobsen. He will assist distributors with their product servicing and training programs in the Northwestern states, including British Columbia, Alberta and Saskechewan.

Covering North and South Carolina for the PGA Div. of Victor Golf is **Buddy Buchanan**.

Three vice presidents have been appointed by the board of directors of Toro Mfg. Corp. Roy T. Baril has been appointed vice president and controller; Vernon A. Johnson, vice president, secretary and general counsel; and Robert J. Quinlan, vice president, corporate development.



THERE'S MORE TO A HEALTHY, GREEN TURF THAN MEETS THE LIE!

It's a Tailored-Designed and Installed Irrigation System by The Kenneth Barrie Corp.

First, you choose from among the finest irrigation systems available . . . one that meets your specific requirements to a tee. Then, our engineering staff will plan for its installation. Expertly planned to provide for the most efficient and carefree system. A professionally designed and installed system to effect maximum savings in maintenance labor and water.

Interested in the finest irrigation system—conversion or new installation? Call or write your Kenneth Barrie specialist.

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ASK THE EXPERTS

Continued from page 48

lack of competent labor available to the superintendent. In this day and age of rapidly rising labor costs, improved management techniques must be introduced to control these ever rising costs. Surveys show that the cost of golf course maintenance is increasing at the rate of about 5 per cent a year. A 10 year outlook indicates that this trend will continue because superintendents are being asked and expected to provide better playing conditions. Salaries and labor costs are expected to continue to go up and may very well constitute the major part of the 5 per cent annual cost increase. Golf course superintendents are insisting that modernization programs be taken into account if requests to the clubs for a quality course are to be met. An automatic irrigation system will be a major factor in controlling

labor costs and improving the quality of the course.

There are other reasons for going automatic. An automatic irrigation system will optimize turf growth and conserve water. An automatic system will never overwater when properly programmed and reduces or completely eliminates run-off. It provides precise control of moisture by the superintendent to assure ultimate turf quality.

(Toro Mfg. Corp.)

Answer: A comparison of the relative initial costs of a manual versus an automatic irrigation system should be accompanied by a study of continuing operating costs. The higher initial cost of an automatic system is frequently justified by savings in labor and other operating expenses.

The final amortized cost of the system, however, is only part of the explanation of the trend toward automatic golf course irrigation systems. Availability of com-

petent and dependable employees is a common concern of superintendents. Where night or seasonal employment is required, as is often the case in the operation of a manual irrigation system, the problem is particularly acute. Through a properly designed automatic irrigation system, the superintendent has direct control over the amount of water to be applied to areas relative to their respective water requirements.

It should also be considered that well-irrigated courses can generate additional revenues because they will command stronger membership and higher dues.

(Ethyl Corp.)

Question: What type sprinklers work best with an automatic system—pendulum? Others?

Answer: The impact type sprinkler has proven to be the most dependable, trouble free and least expensive to maintain than either

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INSTANT GREENERY

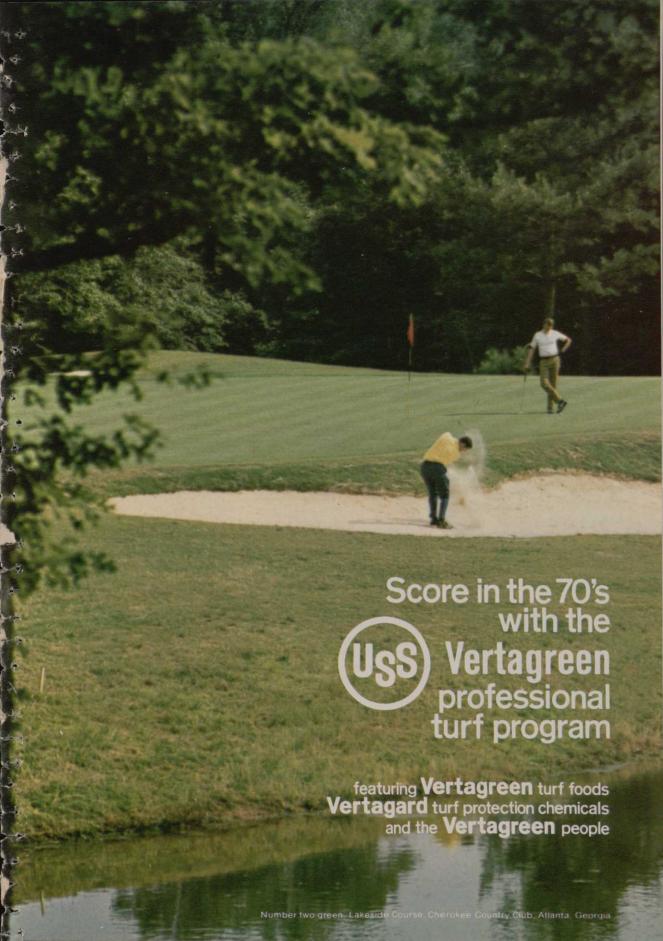
That's what you will think when you see all that green popping up after your Miller irrigation system is installed. Miller sprinkling systems are built-in player-pleasers that produce results. These results come from know-how acquired through over 40 years of experience and installation of more than 100 successful irrigation systems. So, call Miller today, ... your players will thank you!!

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Step 1

USS VERTAGREEN Professional Turf Program

The **Vertagreen** People meet you on your own ground

Your course is different from anyone else's. Your turf, ground contours, climate, number of golfers per day, tournament use, and management practices are all unique to your course. That's why the VERTAGREEN People from USS Agri-Chemicals "meet you on your own ground" as the first step in the VERTAGREEN Turf Program.



A VERTAGREEN turf specialist will meet you on your own ground. Before he discusses the use of fertilizers and pesticides, he'll want to get to know your course. There's no substitute for walking it with you.





Soil sampling and nematode inspection is another part of the VERTAGREEN Professional Turf Program. This scientific analysis of your soil is a service that we provide at no charge. Be sure to take advantage of it.



Your soil sample will be analyzed in one of USS Agri-Chemicals' modern research laboratories. At the central research and development laboratory in Decatur, Georgia, chemists and agronomists are at work on new professional turf fertilizers. This continuing research effort is reflected in the superiority of VERTAGREEN fertilizers.

There are two important reasons for the popularity of the **VERTAGREEN Professional Turf** Program among superintendents. One is the service provided by experienced turf specialists. The second is the completeness of the line of professional turf fertilizers and pesticides offered by the VERTAGREEN People. This team of people and products can help you solve many problems such as fertilizer and pesticide inventory control. Most important, the result will be obvious to your members...in a more attractive, better playing course

