When these sprinklers were turned on, a new era began

Jerry Palmer is one of the first to have total control of his watering system.

When he put in new sprinklers at Chula Vista Municipal Golf Course, he put in Buckner’s new CP-2 Dual Central Programmer. It makes all previous central controllers seem like crude prototypes.

Because the CP-2 Dual Central Programmer is so sophisticated, it doesn’t require expensive conventional field controllers. The less expensive, less complex FC-10 Field Controllers, along with the CP-2, give him complete control of the system from his “doghouse,” but cost less than a conventional automatic system would have. He doesn’t have to make the rounds of remote automatic sprinkler controllers, except for inspection. So he’ll save time and labor costs as well.

The revolutionary Buckner CP-2 Dual Central Programmer incorporates two independent sets of controls which operate up to 30 Field Controllers each. Palmer can operate it automatically, semi-automatically, or manually with 14-day programming and adjustable station timing.

On frosty or dewy mornings, he’ll be able to syringe the greens in 20 minutes. In about an hour, he can syringe the entire course – it’s ready for play. The syringe cycle of the CP-2 is infinitely variable, 1.7 to 5.0 minutes, and overrides all timing programmed in Field Controllers.

What if it starts to rain? With the “omit” switch, Palmer can stop all sprinkling, whether the CP-2 is on programmed irrigation or the syringe cycle. All Field Controllers will automatically return to “off.”

Learn more about how the amazing CP-2 Dual Central Programmer can give you total control of your watering. Call your Buckner distributor or send in this coupon, and we’ll arrange a demonstration.

BUCKNER Sprinkler Co.
P.O. Box 232
Fresno, California 93708

Here’s my name and phone number. Please arrange a demonstration of the CP-2 Dual Central Programmer.

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Toro helps you Take Better
New Greensmaster 3 outperforms 4 men.

Here's the kindest cut of all, as well as the fastest. The new Greensmaster 3 gives you the best of both worlds, by delivering 18 ribbon-cut greens in about 3½ hours, and paying for itself in a single season.

Ribbon-cut greens don't just happen. We take care to build them into the machine. The cutting units are free floating, with ground-level pull points. Grass baskets are mounted on the frame, instead of the reels. Oversize tires reduce compaction, prevent damage to turf. The drive is fully hydraulic. Cutting heights start at ¼ inch, are adjustable with a micrometric, positive lock system, up to ¾ inch (for collars and tees).

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So now meet the first **greens management system**

The Hahn/West Point Tournament is the only greens-mower with features that satisfy literally everyone involved in the game of golf—chairman, superintendent, operator, and golfer. It is absolutely the most versatile greens care unit available today.

Want proof? See the Tournament for yourself at the GCSAA Show in Denver, February 9-12... or write directly to us.

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- Front-steering maneuverability
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- Smooth hydrostatic drive
- Individual lifts on each mower reel
- Automatic reel shutoff
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- Precision triplex Verti-Cut reels
- Vibrating spiker reels
- Precision heavy-duty tee mowers
- Quick-couple gravity-dump trailer
- All-weather protective cab
A revolutionary break-thru in fairway

Eliminate fairway Poa annua and improve turf color and texture by inhibiting poa seedhead production and retarding foliar growth. Prevent poa from planting next year's crop. Retard poa leaf development to encourage upright growth and reduce matting.

RESULT: More open turf - ideal to help the turf manager encourage the spread of desirable grasses. Use on fairways which are mostly Poa annua, yet lose no turf cover due to chemical action, at recommended rates. Leaves no phytotoxic residues in soil. Overseed with perennial grasses immediately, with confidence of exceptional germination and development.

PO-SAN also eliminates clover and dandelion, and retards other broadleaf weeds. One treatment provides 30 to 45 day control.

RESULTS OF AN INDIANA EXPERIMENT STATION TEST

PLOT AT LEFT was treated with PO-SAN at 2 1/2 times recommended rate. Poa annua is severely retarded, but bluegrass remains green and vigorous.

PLOT AT CENTER was "check" plot, not treated with PO-SAN. Poa annua, profusely covered with seedheads, has completely crowded out bluegrass.

PLOT AT RIGHT was treated with PO-SAN at the recommended rate. The turf is green and growing, but the Poa annua is retarded and not producing seedheads - bluegrass is "taking over".

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There's nothing wrong with being called "standard". — Not only because that's our name, but because our innovations have continually led the golf course equipment industry.

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We are sure it’s enough to see for yourself the hybrid vigor, the outstanding color and disease resistance of this famous golf green grass.

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2. Germinates in 8 to 12 days, develops deep root system, competes with poa annua.
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OK . . . Send me a one (1) pound sample and I will give it a try.

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The only work car as good as our golf car...Harley-Davidson.

And you know how good that is. You see more and more Harley-Davidson golf cars on America's top courses. We build Utilicars with the same care, the same idea that only "perfect" will do. The same way we've been putting power on wheels for over 67 years. That's why they're such hard-working, long-lasting cars. So economical to own and operate. And why they're so widely accepted for industrial uses. Choose from six body styles, cabs and other options to match your jobs. Choose gasoline power with simple, reliable automatic transmission plus instant ignition starting that ends wasteful idling. Get a demonstration today from your Harley-Davidson dealer...the place to go for fast, dependable service, too. And be sure to look closely at our brand new high strength industrial bumper (not shown). It's tough. Or write: Manager, Commercial Car Division, AMF | HARLEY-DAVIDSON, 3700 West Juneau Avenue, Milwaukee, Wisconsin 53201.
less injury than when the plants were completely submerged. In one case, elongated Penncross creeping bent-grass stolons survived for an entire growing season while floating in water with only the leaves extending above the surface.

Comments: It is not uncommon to establish golf courses, recreational areas and parks on low-lying flood plains adjacent to rivers. As a result, turfs on these areas are periodically subjected to flooding. These investigations indicate that the professional turfman can minimize flooding damage through the use of certain cultural practices.

It is evident from this study that a substantial range in submersion tolerance exists among the commonly used cool season turfgrasses. Bent-grass or Kentucky bluegrass are definitely preferred to red fescue or annual bluegrass. They also have a greater recuperative potential from surviving vegetative plant parts. In addition, it is obvious that certain creeping bentgrasses and Kentucky bluegrasses can survive submersion for a relatively long period of time provided that higher water temperatures are avoided. The occurrence of high water temperatures is less likely to occur where flooding involves a continuous flow of water across a turf area rather than shallow, stagnant pools. The latter problem can be avoided by insuring rapid removal of surface water accumulations by proper surface contouring or the use of slit trenches or surface drains connected to an adequate subsurface tile system. If shallow, stagnant pools of water develop on greens, the water should be removed by a squeegee-type device before the water temperature becomes excessively high.

The increase in water temperature to lethal levels is most likely to occur in small, shallow pools during periods of high light intensity and high air temperatures. Injury to turfs resulting from this condition is referred to as scald. This term may be somewhat misleading because scald injury can occur at water temperatures considerably below the boiling point of 212°F.

This paper is devoted to only one phase of flooding. That is, the direct effect of submersion on the turf. However, one must remember that turfgrass damage by flooding can (Continued on page 42)
When you put in something as critical as underground sprinkling, you get only one chance to do it right. And on hundreds of courses since 1961, that has meant Toro equipment. Toro’s Vari-Time* Control System has set the standard.

We’ve been leaders in sprinkler head design for years. The first Valve-In-Head, the first sealed gear drive, the first 2-speed heads for fairways and greens. A few reasons great championship courses are choosing Toro.

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