



coordinated look *Continued*

From left: boldly striped Jockey shirt (\$5) with bataya weave Palm Beach slacks for Etonic (\$16.95); Par-Mate glove. Revere pebble knit shirt (\$9); Slack Fashions "Nassau" shorts (\$15); Top Pro socks for Green Tee; Foot-Joy shoes. Gino Paoli "Lucione" fine fishnet shirt (\$25) with "Buckler Lin" slacks by Gino Paoli (\$18); Champion glove; Par-Pal shoes. Hats - by Ace.



From left: Ken Venturi jacket by M. Rubin & Sons (\$11) over Ken Venturi shirt by Colonial (\$3.50); Ace hat; Johnston & Murphy shoes. Munsingwear turtleneck shirt (\$10); Gino Paoli "Buckler Lin" slacks (\$18); Foot-Joy shoes. Haymaker matching print blouse (\$7) and shorts (\$12) with orange cardigan (\$12) also by Haymaker; shoes by Pro-Shu

Airy knits, from left:
 "Pompano" fishnet shirt (\$5)
 and plaid slacks (\$22.95)
 by DiFinì; Top Pro
 socks for Green Tee;
 Roblee shoes by Brown
 Colfax Leonardo Strassi
 "Biarritz" shirt with fishnet
 front (\$16.95); Jefferson
 slacks (\$14); All Star glove;
 Stylist shoes. Izod striped
 shirt (\$20) with DiFinì
 slacks (\$16.50); Johnston
 & Murphy shoes.



Sunny hues, from left:
 DiFinì candy stripe
 knit blouse (\$5.95) and
 coordinated knit
 bermudas (\$12.95);
 Etonic shoes. Gold knit
 blouse (\$5.95) and
 "posey print" shirt
 (\$10.95) by Kunik
 Kasuals; shoes by
 Pro-Shu. Colfax Leonardo
 Strassi "Avalon" shirt
 (\$14.95) with Esquire
 "Lido" slacks (\$18.95);
 Acushet glove;
 Bridgewater shoes.



Girl in front wears hot pink blouse (\$12.95) and print culotte (\$16.95) by McMullen for Green Tee; Lazy Bones shoes. Behind her: shocking blue "Florentine" crew-neck shirt (\$15.95) by Duca for Green Tee with Slack Fashions trousers (\$20); Stylist shoes. At top: Gino Paoli "Povera" blouse (\$9) and "Shanstar" skirt-front culotte (\$16); Foot-Joy shoes. Man swinging teams Jantzen "Dave Marr" shirt (\$5.50) with Esquire "Riviera" slacks (\$18.95); All Star glove; shoes by Etonic.

coordinated look *Continued*

From left: Bruce Crampton golf belt knit shirt (\$6) and Scotset bermudas (\$10) by McGregor; Wigman socks; Johnston & Murphy shoes. Print blouse (\$6) and coordinated skirt (13.95) by Etonic; Ace hat; Etonic shoes. Striped velour shirt (\$11.95) and slacks (\$21.95) by Kunik Kasuals; E. E. Taylor Stroke-Master shoes.



GRAFFIS SWING

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contributed by Hi-Lo GCSA . . . Los Angeles area again makes available classes in Advanced Turfgrass Management at Mt. San Antonio College, Walnut, and Pierce College in Woodland Hills . . . *Wayne Morgan* teaches the high school classes . . . There also are classes in turfgrass irrigation at Mt. San Antonio College Monday nights from 7 to 10 p.m. . . . *Herm Westkamp* is instructor.

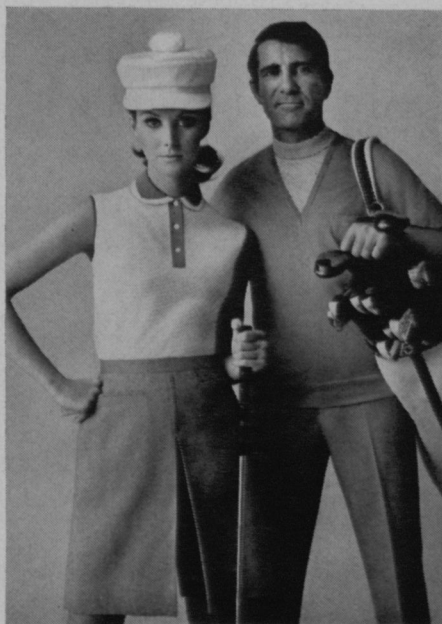
Richard M. Phelps, now with Brauer and Associates, Edina, Minn. . . . He's been active in course construction and turf management in Iowa . . . The Brauer organization is remodeling Southview CC, West St. Paul, building an additional nine for the Owatonna (Minn.) CC, building 18 for Dahkgreen GC in suburban St. Paul and nine with FHA financing in Baudette, Minn.

Palmer Maples, Jr. Charlotte (N.C.) CC elected president, Carolinas GCSA

. . . vice president is *Bob Berlinger*, Shaw AFB GC, Sumter, S. C., secretary-treasurer is *P. M. Alexander*, Clemson (S.C.) University . . . Maples succeeds *J. G. Wright*, Greenville (S.C.).

Name of Riverwoods CC in Chicago's suburban Deerfield, changed to Ravinia Green CC . . . *Gene Sarazen's* new book "Golf for Seniors" in print soon . . . The very competent Roger Ganem was the literary pro on the job with Gene . . . 1967 series of Shell's Wonderful World of Golf has Sarazen and Jimmy Demaret doing TV's top job of helpful golf instruction and entertainment . . . Even the commercials are much better than many television programs . . . Sports Network Inc. began its live color series of 11 PGA 1967 tournaments with Los Angeles Open with an hour on Saturday Jan. 28 and an hour and a half on Sunday . . . Final of the SNI-PGA series will be Dec. 3 at the PGA National GC with the PGA Team championship. •

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Learning from last year

Despite the slings and arrows dished out by Mother Nature in 1966, superintendents can congratulate themselves on a fine year.

By MARVIN H. FERGUSON
GOLFDOM Agronomy Consultant

During World War II, Army flyers sang a song which ended in the words "Nothing can stop the Army Air Corps." Typical of the rivalry among the various branches of the Armed Forces, wags among the foot soldiers quickly appended the words "except the weather."

In 1966, skillful superintendents did a fine job of maintaining the nation's golf courses and they solved most of their problems "except the weather." Despite meteorological advances weather remains unpredictable, variable and uncontrollable. Mother Nature, being the capricious type that she is, again caused sleepless nights and anxious days for many plant growers in 1966.

At the outset, much of the South experienced no freezes during the fall and early winter of 1965. For example, the first freeze in Houston occurred on January 15, 1966. This unusual tardiness in the onset of cold weather was not anticipated by those who overseeded bermudagrass greens with cool season grasses.

Bermudagrass failed to go dormant and it furnished competition for the cool season grasses, hindering their establishment. Thus when the freeze did occur, the cool season grasses on a great many greens were not dense enough to provide a good turf. At that date it was somewhat difficult to establish more seedlings.

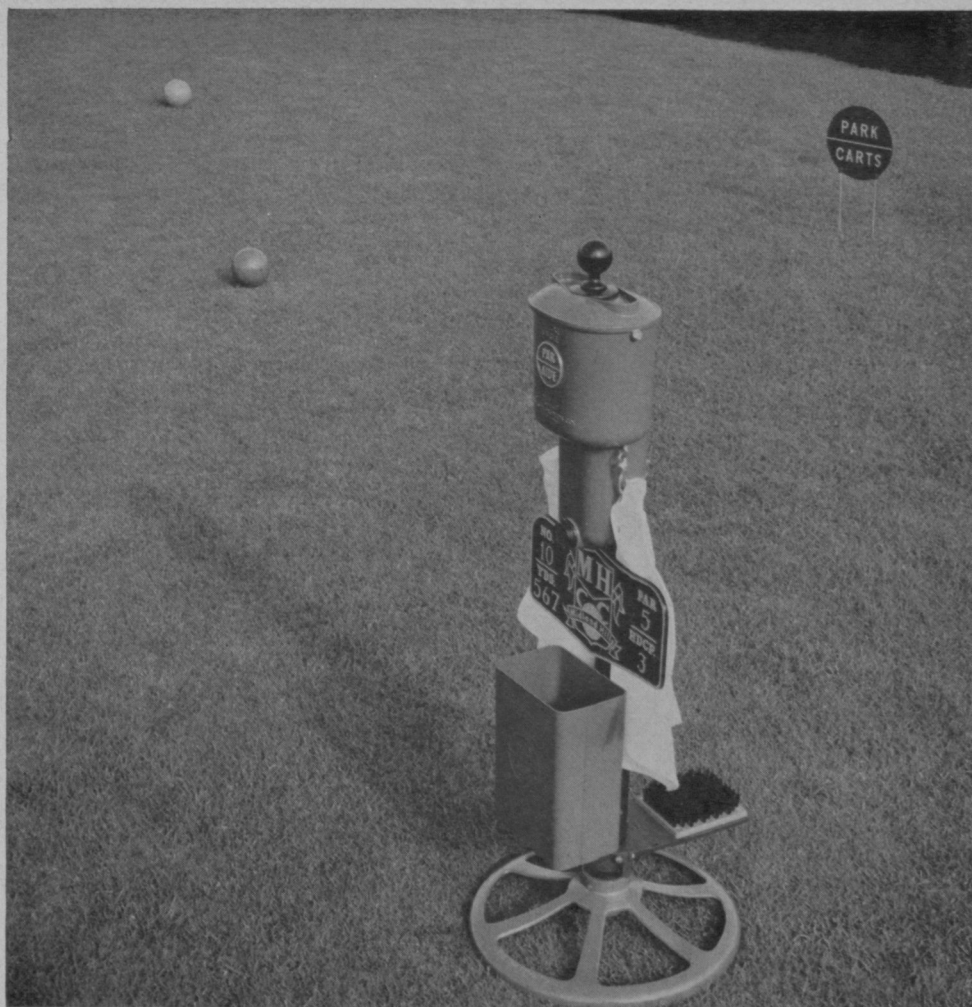
While the late winter of 1966 was not especially severe, the cold weather persisted until well into the spring months and recurring "cold snaps" continued to retard spring growth. Plant scientists appear to agree that much of the loss of turf that is called winterkill is in fact "spring kill" and that repeated freezes and thaws in the spring when grasses are beginning to break dormancy are responsible for the death of the plants.

The fact that turf has been damaged by winterkill on several occasions during the last ten years has produced some significant changes in the thinking of those who build and manage golf courses. These occurrences are encouraging the

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Green at left is a "permanent temporary" at Memphis CC. Regular green is at right.



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DEPT. G



Hardscrabble CC, Ft. Smith, Arkansas, has used bermudagrass greens for many years. Recently, they have gone over to bent. This is view from back tee of the 17th hole.

LEARNING

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movement of bentgrass to ever more southerly locations.

New golf courses in Atlanta, Nashville, and numerous places in the Piedmont area have been planted to bent despite the traditional use of bermudagrass. Bentgrass in these regions of high summer temperatures will likely not be free of troubles, but it appears that more progress has been made in combatting summer problems than winter problems.

When grass dies during hot weather, a careful observer can see what is happening. No good superintendent will allow his grass to remain wilted nor will he allow an attack of fungus or insects to go unchecked. In the wintertime, injury to turf plants is very difficult to detect and when spring arrives and the grass fails

to grow, one can only speculate about when death may have occurred.

In the Memphis area, several clubs have installed alternate greens to be used during winter. Regular greens are covered with a protective layer of straw or similar material. The alternate green, facetiously called a "permanent temporary," is seeded with cool season grasses in fall and play is directed to these greens during the winter months.

The system has worked quite well. Admittedly, it creates more work for the maintenance crew, but it provides good greens at all seasons.

During the last few years the problem of winterkill has been accorded a place of greater prominence among the troubles that beset turf growers. In the North, winterkill is most serious on those greens which are infested with *Poa annua* and on those greens where compaction is serious and drainage is poor. A considerable research effort is being brought to bear upon this problem.

In December, the Wisconsin Golf Course Superintendents Association, in cooperation with the Milwaukee Sewerage

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Canna bed on sixth tee at Texarkana CC makes beautiful hole even more pleasing. T.E. McAdams is the golf course superintendent.

you couldn't
grow Poa Annua
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Here's your effective *pre-emergence* control for three ugly weed-grasses. Spray early with Mallinckrodt Pre-San and you'll have ...

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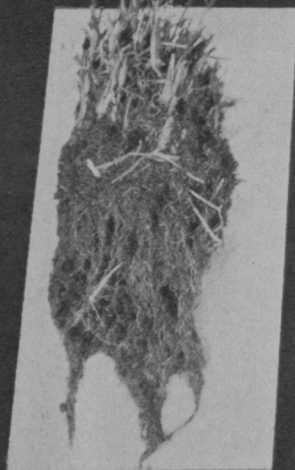
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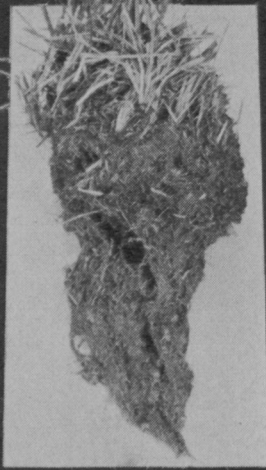
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CHECK



80 LB./A



120 LB./A

Here's proof that repeated yearly applications of "Tupersan" do not injure the root systems of many established cool season turf grasses, even when "Tupersan" is used at extremely high rates. The Kentucky Bluegrass turf cores shown at the middle and right were taken from plots that were treated with "Tupersan" for three

straight years at the rates of 80 and 120 lbs. per acre. The Kentucky Bluegrass turf core at the left was taken from an adjoining plot that was not treated. Note that there is no difference between the treated and untreated cores. Similar results were obtained in plots of fescue and certain strains of bentgrass.

Control crabgrass without injuring turf (cool season grasses) with Tupersan[®]

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