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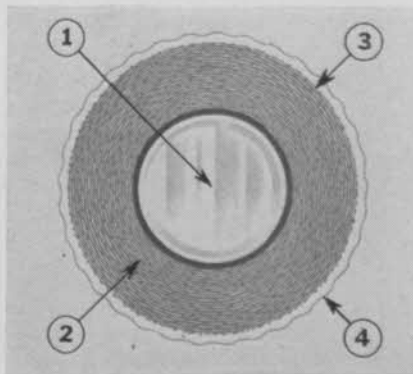
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**Keeps you out  
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*liveliest winding in any ball*
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*packs more rubber thread on the ball*
- 4 PURE NATURAL BALATA COVER**

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research experts will give us the answer.

#### **Fairway and Greens Seeding**

For this altitude and latitude we have found Kentucky blue grass ideal for fairways. It is a hardy grass in this climate and will resist weed growth if properly fertilized and watered. Cut short it makes a good surface for real golf shots. 30% red top was planted with the blue grass in the beginning.

For greens we have found, so far, that a mixture of Chewings Fescue and Colonial bent in equal amounts by weight gives a good tooth for putting surfaces and is especially good for sloping greens, where flatter, smoother creeping bents fail to hold the ball. Although neither grass is accustomed to our rigorous climate, both have shown unusual hardy qualities if properly cared for.

#### **Snow Mold**

The only serious damage to our greens has come from snow mold. The dry cold climate prevents the formation of many of the fungus growths that afflict other golf courses and until the greens had become packed down and hardened from traffic there was little serious damage from anything. Dressing late in the fall was found beneficial.

Preventing the greens from thawing or drying out in the January thaw was found beneficial. However, we now have a West Point aerifier and from some spiking experience we are satisfied that our snow mold problem has been solved.

In addition to reducing nitrogen fertilizer in the fall and aerifying, we are dressing late and applying Tersan as an added precaution. My opinion is that the late dressing is the most valuable asset next to aerifying.

If possible, snow should be kept on all greens through the January or February thaw, otherwise winter kill is experienced.

#### **Fertilizers**

From the beginning of the course we have used 10-20 Anaconda Phosphate fertilizer for greens and poor spots on fairways. It has been a wonderful stimulant to both grasses, but seems better suited to blue grass where cuttings are not removed.

All of the greens and fairways have been sampled and tested at Montana State college and application of lime and potash has been made where needed.

Milorganite is being used in the fall now and the greens are going into the

winter in a toughened condition. Phosphate nitrogen is not applied after the growing season.

Rotted cow manure is used on sandy hillsides and in greens dressing to some extent.

A thin layer of fine quartz sand has been used to good advantage on top of the greens dressing. It stops discoloration of the grass by wet dressings and provides some drainage value. It also has a value in retarding the impacting of greens by traffic.

#### **Hazards**

The two streams through the course have provided 14 water holes with six actual crossings where hazards are marked. In addition, one dry creek crosses the 5th fairway and furnishes a marked hazard near the green. Trees and willows line most of the fairways and provide sufficient additional trouble to the slicer or hooker. Therefore no sand traps have been constructed and only a few grass bunkers have been built to guard the greens. These facts indicate low maintenance costs.

#### **Clean-up Days**

One of the constructive activities of the club has been the annual Clean-up Day in the spring when 75 or more men report after work hours and do a fine job of beautifying the course. In one instance they actually constructed three new greens without much cost to the club. Men who will work like that appreciate the facilities and use them afterward, and there isn't so much criticism of the grounds superintendent and crew.

#### **Tree Planting**

Several hundred conifer and waxleaf willow trees have been planted on the course. They will provide additional beauty as the years go by. It is hoped that the Canadian poplar which now surrounds many of the fairways will be supplanted by other type trees in time. Both the roots and leaves of the poplar give trouble.

Our policy is to improve each year. The projects contemplated are larger grass tees and less areas where balls are lost. And always to improve the condition of the greens if possible, not, by making larger greens, but by making them more attractive and with improved putting surfaces.

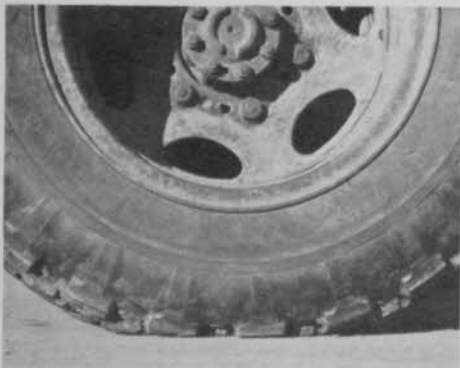
J. D. Murphy, our club president, has always given generous support to our program.



## Proper Care of Tires Saves Turf, Time and Money

Tractor wheel slippage costs golf course owners hundreds of thousands of dollars each year in turf repair and replacement. A wheel that slips will either tear up the grass or dig a lengthy trench in the ground.

Such slipping can be prevented by greenkeepers if tires are properly inflated, the development engineers of the Firestone Tire



Chances of wheel slippage are reduced to a minimum and tire distributes its load over a large area of ground, providing more traction surface, when properly filled to 12 lbs. inflation pressure.

and Rubber Co. report upon completion of a series of tests on the company's two Akron golf courses.

Over-inflated tires tend to stiffen and are prevented from flexing to conform to the irregularities of the ground. A stiff tire will not grip the ground as easily as a



Careless, fast starting and over-inflated tires will cause turf destruction pictured above. Even with properly inflated tires, engineers recommend smooth, gradual starting for all golf course work as the most economical method of operation.

softer tire so it tends to slip and rip out strips of turf.

Under-inflated tires, although increasing traction, can lose more than half of their normal life due to extreme weakening of the sidewalls. Hard tires and soft tires are equally expensive in maintenance of golf courses.

Proper inflation pressure for both air and liquid-filled tires is 12 pounds. Such a pressure not only eliminates most of the slippage, but increases tire life, the engineers report.

Tests show that best results from liquid-filled tires are obtained at the following weights: a 750-16 should have 130 pounds of solution; a 750-18, 145 pounds; a 9-24, 200 pounds; a 10-24, 258 pounds, and a 10-28, 310 pounds.

Tractor operators can help eliminate the remaining possibilities of turf damage by being careful to avoid rapid acceleration, increasing speed going up hills, abrupt changes in speed or gear, and using tractors with unbalanced rear wheels.

Development men also reveal that wheel slippage on damp ground or grass is between 10 to 20% greater than on dry areas.

For any golf course tractor work, the engineers recommend smooth, gradual starting with a slow, steady pulling gear as the most economical type of operation for tire wear, fuel consumption and turf preservation.

Spring rains, and rapidly growing grass at a time when golfers demand well-groomed fairways, create conditions for damage to turf by careless or rapid starting. Caution is the watchword.



Close-up view of damage done by rapid acceleration of tractor when starting. Same damage results from starting tractor on hill, consequently drivers should be cautioned about start-stop operations on hillsides.

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Peoria, Illinois



Birdseye view of the Reach tabloid course installed at East Longmeadow near Springfield, Mass. It's a compact course which can be laid out on a 20-acre plot, provides a test of every golf shot and accommodates between 400 and 500 players per night.

## Reach Invents Tabloid Course for Day-Night

Milton B. Reach, Sr., widely known veteran golf manufacturer and amateur player has installed the first of his recently patented "New Model" country clubs at East Longmeadow, a Springfield, Mass., suburb.

The Reach innovation is a compact type of a course which provides a test of every club in the bag except the trap clubs. It's laid out so a foursome can play in about an hour and 15 minutes. The course is lighted for night play. Tests have shown that the course can accommodate between 400 and 500 players a night.

Reach has been working on this idea for developing more golfers for about ten years. One of the features of the new tabloid course is the approach shots into pools of water; these pools being of various sizes as called for by length of the shot to be played to the green. When the water splashes the player is considered to be on the green. Then he moves from the approach teeing area to sand greens and putts out.

The layout can be constructed on 20 acres.

There are three lengths of courses — short, medium and long — played from

the driving tees. The driving tee area consists of seven tees; Nos. 1, 2, 3, 5, 6, 7 and 9. The 4th and 8th holes are short holes and are played from "target" tees such as are used for the approach shots.

In starting the game a player drives from the first driving tee, then walks to Target tee No. 1 and hits his approach into the target pool representing the first green. He then moves to the companion putting green and holes out.

If a drive is missed (as to distance or boundaries) the player takes a penalty stroke and moves on without loss of time. A one shot penalty also is taken if the player misses the target pools, except on the one shot holes where, where if the player misses a pool, he can move to a chipping tee and attempt a recovery. Shots to the more distant pool range from 120 to 190 yards and to the near pool, from 30 to 50 yards less.

Par for the course is 34. Total walking distance required is about 800 yards.

The initial course will be opened for play this spring. Already Reach has received numerous inquiries from individuals and municipalities regarding construction of the compact courses in other cities. Further details of the construction, cost and operation of the course may be secured from Milton B. Reach, 73 Atwater road, Springfield, Mass.



# Congo

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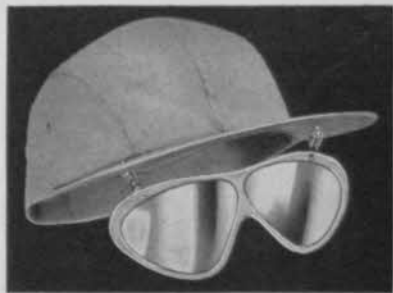
**CONGO Model 105 (Left)**

Ladies' Sports Hat for all outdoor activities. Smart, cool and feather weight. Crown and brim in natural colored Zelan treated Poplin with trim of yellow, red, pastel shades of green and blue. Small, medium, and large sizes.



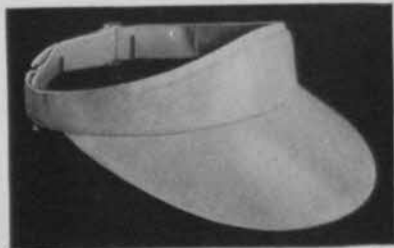
**CONGO Model 433**

Airlift cap for all sports. Mesh sides for air circulation, long wrinkle-proof and water-proof visor with green underlining. Colors: Cardinal red, Kelly green, Royal blue, white, tan and gold with white mesh. Four sizes.



**CONGO Model 434**

Two-Way Sports Cap with flip type clearsite framed eyeshade. May be used by wearers of corrective glasses. Made of fine quality Storm-tite Zelan treated poplin, natural or tan. Small, medium, large and extra large sizes.



**CONGO Model 475**

Tennis Visor, Wimbledon style, the leader for tennis, golf and other sports. Padded forehead shield, adjustable to any size, visor underlined with green. Colors: blue, green, red, beige and white.



**CONGO Model 430**

Streamlined Sports Cap in Topsail cloth, also in white Twill. Long, sturdy, water-resistant visor. Colors: blue, green, red, beige in Topsail cloth and white in Twill. Four sizes.

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## Western Golf Assn. Booking "Honor Caddie" Movie

High praise was accorded WGA officials for their new production at the premiere of the Western Golf Association movie, "Honor Caddie", shown at the Chicago Athletic Club, March 29, and attended by noted golfers, sportsmen, manufacturers and officials headed by Chicago's Mayor Martin J. Kennelly. Walter Hagen and Gene Sarazen two of the all-time greats who graduated from the caddy ranks were present.

"Honor Caddie" is the new 16 mm. sound, full color motion picture in which Bing Crosby, Bob Hope, leading men pro and amateur stars and Patty Berg, Louise Suggs and Babe Zaharias appear.

The golf shot-making, Crosby's singing of "Tomorrow is My Lucky Day," Hope's comedy and the story of caddy training and Evans caddy scholarships are put across in 22 minutes of fast-moving golf entertainment. It makes a strong attraction for golf club parties. Bookings are now being accepted but number of prints of the film are limited and member clubs are requested to advise of several dates well in advance from which choice of one can be made for showing of the film.

The untiring efforts of WGA president, "Scotty" Fessenden, and other officials coupled with the volunteer services of a million dollar cast have produced an entertaining and educational film which gives



Attractive cover of the song hit, "Tomorrow's My Lucky Day" sung by "der Bing" in the WGA film "Honor Caddie".

member clubs the chance to hold an exclusive premiere all their own. This is a complimentary service of the Assn.; a service that gives clubs their most effective mode of recruiting and training caddies and at the same time assist the WGA in raising funds for the Evans Scholars Foundation, an educational trust which sends financially needy and scholastically qualified caddies to college.



Premiere of "Honor Caddie" movie is forgotten as officials scan through pages of new book commemorating 50th anniversary of the Western Golf Assn. (L to R) Charles "Chick" Evans, Jr., founder of the WGA college scholarship plan; M. G. "Scotty" Fessenden, WGA pres.; John C. Kennan, Exec. Sec'y.; and Evans Scholar, Bill Maloney.



Chicago's Mayor Martin J. Kennelly extends club from new set to Evans Scholar, Lucian Di Salvo, prior to showing of the new WGA film, "Honor Caddie," produced to aid in raising funds for the Evans Scholars Foundation, as Ex-caddy Gene Sarazen (L), WGA pres., M. G. Fessenden (C) and L. B. Leely, Wilson Sporting Goods Co., look on



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# Gets and Trains Negro Kids With "Q and A" School

By BOB HAYES

Orlando Country Club at Orlando, Fla., had a long-standing caddy problem — and licked it.

It was a double-barrelled problem. There weren't enough caddies to go around in the first place. And the caddies they did have had no more than a light smattering of caddying fundamentals.

Golf players among the 500-odd members of the picturesque Florida club were unloading gripes at club officers.

John Graham, chairman of the Green and Grounds committee, instituted a simple program five months ago to remedy the situation.

The results have proved surprising. And it's a program simple enough and reasonable enough from a cost standpoint to work for any golf course — particularly those in the Dixie belt where conditions are much the same.

The Orlando CC gets its peak play during the Winter. Use of white caddies during the Winter, when school is in progress, is out of the question. So this club, like most others in the Winter tourist areas, uses all Negro caddies.

## Plan Gets Negro Caddies

Perhaps the Negro caddies should be in their schools, too, but they are more

eager for a dollar. But even so, the turnover among Negro caddies had been terrific.

Graham's plan works on that angle, too. Here's the plan he worked out:

Graham had a big sign erected just outside the caddy pen bearing this set of 12 simple rules for caddying:

1. Clean balls for your player.
2. Watch spot by line and object where player's drive goes. As soon as other players have shot, go direct to your ball.
3. After player has selected club, move about eight feet to his right.
4. After spotting ball, be sure to replace any divot, press down, and then go direct to the ball.
5. If your player's ball stops on green first, you are to take care of the flag.
6. If you are on the flag, you are to decide which ball is farthest from the flag and face that player.
7. Stand so that your shadow is not over cup. Do not step on line of putt.
8. When removing or replacing flag pole, do not damage rim of hole.
9. Never stand behind a player who is about to shoot, at any time.
10. Never move around, rattle clubs or talk when player is shooting.



Donald S. Evans, left center, pres., Orlando (Fla.) CC, reaches into hat held by John Graham, Orlando green chmn., to draw a number for one of the club's younger caddies to answer in a query session that "has improved caddying 100 per cent."