Mayor Emery Carper, Artesia, N. Mex., named pres. of group forming golf club.
. . . Fred Annon, Innis Arden CC pro., won Westchester Open.
. . . Joe Novak, Bel-Air CC (Los Angeles district) pro, playing his adjustable club
got the fifth ace of his career.
. . . He was playing the 110 yd. 5th of his home
course.

Cleveland CC, Shelby, N. C. to enlarge
capacity. . . . Pella, la., organizing golf
club. . . . Forest City, la., to have new
club. . . . John Bredemus is architect of
18-hole course of Pine Forest CC, Houston,
Tex. . . . Clubhouse architect is
Harvin Moore.

* WILSON C. BROOKS, on leave of ab-
sence the past four years from Melflex
Products Co., Akron, O., has returned to
assume his duties as sales manager. With
the exception of the four years during
which Brooks’ work was concerned with
war production with Republic Steel Co.,
his and L. E. Warford, Melflex president,
have been business associates since 1916.
The Melflex plant is again making prompt
deliveries to golf clubs on their widely
used line of rubber floor matting, step
treads and link mats.

PERFECTION SPRINKLERS
FOR 1946

... were first offered in 1939

Since then they have been produced in large
numbers for crop irrigation and other high
priority purposes, permitting extensive tests and
opportunity for minor improvements to bring
them to Greenkeepers now as nearly perfect, we
believe, as any sprinkler can be made.

The Positive Slow Turning type offers the
following outstanding advantages that are worth
considering:

1. Using a small slotted nozzle for the inside
area and a large open nozzle for the outside,
the largest possible coverage is obtained for
any given pressure at the sprinkler. We invite
comparison.

2. Even distribution from the sprinkler out makes
it impossible to flood greens even with low
centers and high outside banks.

3. Full application of water on the outside edges
of sprinkled area, making it possible to keep
the banks from drying out or scalding due to
lack of sufficient water.

4. Simple, Practical, Sturdy Construction that
everyone can understand (how and why they
turn).

5. All Perfections are mounted on Perfection
heavy galvanized perforated disc steel bases,
the most practical sprinkler base ever made
at any price, and will never injure the most
delicate green.

6. There is a Perfection for every Greenkeeping
need and they are all built to give long un-
interrupted service with minimum attention.

7. PRE-WAR PRICES FOR 1946, something to
think about because Perfections always were
low priced.

Insist on Perfections from YOUR Dealer
or write direct for name of dealer nearest
you.

PERFECTION SPRINKLER CO.
ANN ARBOR, MICH.
(Nota NEW ADDRESS of our NEW PLANT)
The patient-wise golfer who has been waiting out the war, determined that his next set of clubs would be Hillerich & Bradsby's famous Power-Bilt matched woods and irons, will soon realize his wish—for Power-Bilts are now in the making!

As soon as travel restrictions permit, a Power-Bilt representative will be on his way to see you. Meanwhile we are anxious to do everything possible to serve you.

HILLERICH & BRADSBY COMPANY, LOUISVILLE, KENTUCKY
HOW TO IMPROVE POSTWAR TURF MAINTENANCE

By O. J. NOER

1. GREENS — There will be two installments of this article. The section on tees and fairways will appear in January 1946, GOLFDOM.

GOLF CLUBS everywhere have a re-conversion task and are busily engaged in formulating postwar plans. Turf is one of the problems uppermost in their minds. The maintenance program followed next year may affect turf conditions for a decade or more. So every step in the program should be scrutinized before a plan is adopted, both as to immediate results and also—as to any undesirable after-effects in the years to come. A bad putting surface can be transformed promptly into a perfect one by a heavy dressing of sand, but several years later the embedded layer of pure sand will seriously and adversely affect maintenance in hot weather. There are other effective ways to improve the putting quality without any bad after-effects.

Wartime maintenance was an arduous task principally because of the acute labor shortage. Inability to obtain new equipment and difficulty in securing adequate amounts of fertilizer, fungicides, etc. were added complications. The greens got first call for everything, which was quite right. The turf on them came through surprisingly well, but by the end of 1945 very few greens were as good as before the war. That also was only natural. At a very few clubs turf on the greens, tees, and fairways must be renovated, but in most cases the problem is simpler because marked deterioration did not occur.

Turf cannot be kept in first-class condition with a skeleton crew of workmen. Mowing greens two and three, or even four times a week is not enough. Those expecting to maintain an 18-hole golf course with 3 or 4 workmen are in for a rude awakening. Power equipment and mechanical labor-saving devices will be stressed and used more than ever before because of high labor costs, but there is a limit to what they can do.

12-Month Jobs Needed

The practice of recruiting new labor crews at the start of each year is bad, and sometimes expensive. Itinerant workers are seldom reliable or efficient. Even good men require training and close supervision before they can be trusted to perform tasks such as watering greens, or applying fungicides and fertilizers. Some plan must be devised to retain key workmen on an all-year basis, or provide employment for them during the off-season. To do this will help insure efficient and economical turf maintenance.

Many greens have too much vegetation on them. It needs to be removed. This is true of greens at some of the best clubs that have never been bad before. The turf is a thick spongy layer containing a high proportion of buried stems. Mat formation is most pronounced on the vegetative bents, such as Washington and Metropolitan strains, probably because they make a dense, tight turf. A reduction in the number of times per week of mowing, and less frequent top-dressing are largely responsible, but the use of scalping rollers on the putting green mowers, and failure to brush or rake the turf were other causes.

Matted greens are unsatisfactory for putting. The surfaces footprint badly and more or less permanently on days of heavy play. They become rough from raised
TROUBLE-SHOOTING UPKEEP
PROBLEMS WITH THE
CAMERA OF
O. J. NOER

Two pages of photographs showing causes and cures of more common worries in maintaining greens turf.
I. To remove mat of surplus grass, greens are hand raked in the spring before growth starts and followed by close cutting.  

2. Close-up showing hand raked turf (right center) and surface after cutting (left and foreground). Shade and poor drainage are blamed for the difficulty in keeping turf during the summer on this low lying green. 

4. Tree roots in the green (photo 3) from the maple tree at the left and the beech trees on the right rob the soil of moisture so that it becomes dry and hard. 

5. Showing how top roots extend out from trees to rob grass roots. A trench between trees and green will solve this difficulty. 

6. Two section Del Monte rake attached to Overgreen unit for raking matted turf. 

7. Deep forking with hollow tine fork. Plugs drop into pan and are emptied into basket. 

8. Home made power discer at Highland G & CC, Indianapolis. A single Wilder-Strong discer unit was attached to a Park Special. 

9. Close-up showing perforations made by the Highland motor driven discer. Fairway discer makes deep penetration. 

10. Hand forking bad area in greens with common spading fork.
stems, which are scuffed out by the cleats in golf shoes.

**Matted Green Damage**

Matting affects maintenance in several ways. It prevents ready entrance of air and water into the soil. Root systems are often shallow because there is no oxygen in the deeper soil. Oxygen is something every living thing must have. Animal life dies quickly when deprived of it. Plant roots can live somewhat longer, but die sooner or later unless there is air within the soil occupied by them. Many European houses have thatched roofs of straw or grass to keep the water out. Thatched turf has the same effect.

Troubles become acute and reach a climax in hot weather, but the source may have been established before when the deeper soil was allowed to get dry. Greens become hard, and the dry soil resists wetting. Grass may wilt by noon, or before, on hot windy days even though the green received water that morning. Unless a little water is applied promptly, wilting may become permanent. Then the grass in that spot will turn brown and die. The turf will become thin, and invasion by clover, poa annua, or crabgrass may occur. Brown patch and/or scald are other possibilities. Both are encouraged by hot weather and plentiful moisture.

The grass on watered greens may stay wet because the dry soil underneath resisted wetting. A plentiful supply of moisture promotes brown patch and scald, especially if the grass is soft and lush from heavy nitrogen feeding. Scald appears when the soil is waterlogged by overwatering or from continuous rains. The grass roots die for want of air, and death of the tops soon follows. The soil is then exposed to sunlight and becomes covered with a scum of algae. As it dries, the scum changes to a thin, black, skin-like covering and seals the soil. It must be removed by spiking or forking before turf can recover or seed germinate.

Dollar spot is often troublesome on matted greens and hard to prevent or control. Several greenkeepers have been puzzled because this disease would be very vicious on a particular green one season, and cause little or no trouble during the next year or two. Dollar spot was so bad and frequent during the first year that it destroyed much of the grass and eliminated the mat. Disease was less after that and the fungicide treatments prevented and controlled it. The organic debris underneath the surface of thatched greens remains moist, and this fosters growth of the dollar spot fungus. The organism is not affected by the fungicide because it stays above the fungus on the leaf blades near the surface. Deeply pit-

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**When to Top-dress**

At first thought a heavy top-dressing would seem like the best way to eliminate the mat of surplus grass. It will not work in practice, because the top-dressing will not make contact with the soil below. The buried stems and leaves will remain intact for several years or longer, and cause trouble. The mat creates a spongy surface, which is objectionable to the golfers, and prevents deep rooting. Top-dressing should not be used until the mat has been eliminated by raking or brushing, followed by close cutting. Severe raking can be done in early spring, preferably before growth starts, or in the fall, provided there is time for the grass to recover before winter. At any other time the removal must be more gradual and accomplished by light brushing or combing.

When there are alternate layers of top-dressing and buried vegetation, forking or deep spiking with a single unit of a fairway spiker is necessary in addition to removal of the surface mat. An application of lime afterwards is advisable if the soil is acid. The spiking or forking will admit air and encourage deeper root growth. The lime will promote activity of the bacteria responsible for the decay of organic matter.

Some putting green mowers are equipped with brushes or combs. Very little is accomplished when they are used ahead of a scalping roller. As a matter of fact, there would be less thatching if side casters were used regularly, rather than scalping rollers.

Opinions differ regarding height of cut. Reasonably close cutting is advisable. Too close cutting of the creeping bends, which make a tight compact turf, is almost impossible. Keating at Des Moines has good turf of Metropolitan bent that has stayed that way for years. He cuts at % inch, but raises to 5/16 inch for brief periods of a week or so during the hot weather. This variation is enough to keep the grass healthy and not develop an excessive mat.

**Top-dressing Composition**

The texture or physical condition of the top-dressing is more important than its plant food content. Some mixtures have very much clay in them, and others are too sandy. The content of organic matter also varies between the extremes of too little and too much. A medium sandy loam containing 20 to 30 percent organic matter by volume is best. A mixture of equal parts of soil, sand, and (Continued on Page 56)
Pro Plans for Making 1946 a Golden Year

By CRAIG WOOD

GOLF'S first postwar year is going to be a testing one for pros. The demand for clubs should be such that a fellow will be able to get by selling the quota of clubs he's able to get from manufacturers' production. But getting by and letting nature take its course isn't going to be enough. The smart pro workers are going to be making such lively efforts to capitalize on their opportunities that the pro who handles his job in just an ordinary way will look bad by contrast.

One of the vast opportunities for added pro shop profits and member service is in sportswear. Before the war the alert pros who really studied this business made very substantial profits from it. Sportswear profits kept some pros in fairly good financial shape during the war despite the shortages of merchandise.

So make a study of sportswear merchandising. Seldom has this part of the pro shop business been fully pushed. Pros can tell you that in the "old days" there was a considerable income in the sale of hosiery and knickers and sweaters. Next year there'll be vast opportunities especially in selling to players who've been away in the war.

Get the help of good salesmen in planning your sportswear lines so you won't go overboard on your inventories or load up on stuff that won't move. Remember that in sportswear you are in a style business and that the country club is the place where outdoor styles are established. You have to be well-dressed, but not over-dressed, yourself to discreetly push this business.

Profit in Shoes

Another item that's an important part of the golf apparel business is shoes, and with shoe rationing having prevailed during the war there is bound to be a big demand for golf shoes. Almost any moderate-sized club with wise and vigorous pro merchandising and a good selection of stock ought to be able to make a $1000 profit on shoes next year. I was impressed before the war at the amount of women's golf shoe business done by pros who'd given special attention to this field.

On any of your merchandising plans for next year it isn't too early to start right now advertising to your members and informing them that you'll have the best of the postwar golf merchandise. Naturally manufacturers are going to see to it that the pros who establish the brand preferences and the styles get first selection. That's something you want to tell your own members so they'll see the reason for buying from you.

It's certain that golf instruction will be one of the great possibilities for increase of income next year. Your members will have more time and not be under the intense business pressure of wartime. But you have to bear in mind that golf instruction methods and golf instruction selling methods are changing very definitely. If you haven't been using motion pictures in your golf instruction, you'd better get started. And if you have been using movies it's time that you reviewed your methods and results and introduced whatever changes you believe your experience suggests.

Keep Instruction Records

Your own records of instruction have to be rather complete to keep up with the times in golf teaching. A card index system that records what the pupil has been told and what results or faults you have observed, should be maintained. That's some work, of course, but it's work that makes more money for you by impressing
on the pupil that you've been giving more than just spending some time on the tee and going through a ritual. Talk to any smart pro who has kept such a system and he'll sell you on the value of that method.

Another thing; watch the scores as put onto the handicap cards. If a member's game isn't what you think it should be, it's your job to make a discreet inquiry and suggest some helps. That'll take you only a few minutes and it will be the best advertising you possibly could get for yourself—advertising that makes consumer good will and directly encourages sales.

**Select Good Assistant**

One of the most important factors in first class pro merchandising is a good assistant. You can't get them ready-made. You have to carefully select the best qualified and most ambitious youngsters and some time training them, advising them and encouraging them. This is one of the most important management jobs of a pro, and will pay him rich returns.

I've had probably the finest group of youngsters as my assistants that can be boasted of by any pro in the country. Name me a better roster of assistants than Paul Runyan, Dick Metz, Victor Ghezzi, Claud Harmon, Ben Loving, Henry Poe, Jim McHale, Ray Hill, Ren Smith and Pete Harmon. I'm of the opinion that the advice I got from pros older than myself to select my assistants carefully and help them learn the job right, was probably the best advice I've had from successful veterans in the game.

The assistant must have character, judgment and good business sense. Those qualities that mean so much in serving the members in the shop and on the lesson tees, certainly don't retard the development of the assistant's game as you readily appreciate from the list of my assistants.

Often members subconsciously judge the pro by the sort of assistant he has, more than the pro may realize. An assistant has the right to expect some of his pay in competent training from the head professional, but the pro can't make the mistake of thinking that the youngster can be largely paid off by the opportunity to watch the expert performance of the boss. The encouragement of cash for an assistant's able and faithful work always has to be kept in mind. Under the wise arrangement, the more money an assistant makes the more he's making for the pro and the stronger he's making the pro in his job as a man who selects, trains and supervises the right sort of a staff.

**Balance in Assistant Training**

There is a nice balance that has to be made between the training and performance of the assistant inside the shop and outside on the lesson or practice tee. The youngster who wants to improve his own game at the expense of his thorough golf business training isn't the one who's best for the club or the pro. The assistant who is to be developed so he'll be good on his job and for whom you eventually can locate a master pro job to which you can strongly recommend him, has to keep on his toes in the shop selling, and checking the inventory.

**Watch the Inventory**

Watching the inventory is going to be a highly important thing for the pro in...
This is It!
The 1946 Lightweight Balanced Golf Bag

It's the kind of a bag we have always wanted to build.

STANDARD MODEL $5.00

SUN TAN or WHITE
(Both have Olive Green Trim)

PRICE $36.00 DOZEN
Delivered in Shipments of 1 Dozen or More
Order Now — For Xmas selling.

STURDY — FULL SIZE — GOOD LOOKING
Unbreakable hickory rod — waterproof bottom — rubber padded adjustable shoulder strap — top quality duck — larger pocket — rustproof hardware.

BALANCED GOLF BAG
North and Noble Streets
Chicago 22, Ill.
Know All Members

Most of the highly successful businessmen pros I know make it a point to play with different members every Saturday and Sunday. About the most injudicious thing a pro can do is to play with only a few of his members. The member, regardless of the sort of a game he plays, is entitled to have the pro know the member's name and speak to him and really be friendly. And that certainly is the way which the pro can best establish the business relations necessary to his prosperity and security at the club.

The extension of sales development is something that the pro must think about for next year. In some clubs the pros make commission arrangements with locker-room men on sales of apparel and shoes. This is something to consider as it often works out with great mutual satisfaction and profit. The blind bogey is almost a "must" at the well-conducted pro department.

The blind bogey should be run every Saturday, Sunday and holiday with a credit book being kept in the shop for the wins. Any good businessman pro who keeps a watch over his blind bogey books is impressed by the additional purchases of the fellows who come in to the shop to collect their winnings.

The club and bag raffles are good if they're not overdone. They should be spaced with plenty of discretion.

Multi-Club Jobs

A few years before the war I was impressed by the fine work being done, by pros at small clubs who visited neighboring small clubs where there were no pros. The instruction income and playing equipment and sportswear sales of these alert men compared very favorably with the earnings of pros at larger clubs. There is a great boom in construction and revival of 9-hole clubs that will make this field of groups of smaller clubs one that will reward energetic pro businessmen.

There'll be many younger fellows coming into pro jobs next year. Some of them who appear to be very promising will fail to make good. They'll forget that being a good pro is primarily work and not play. And some of them won't bear in mind that being a gentleman is one of the most important essentials of correctly and profitably handling a pro job. Consider Horton Smith, Byron Nelson and others of the most conspicuously successful pro businessmen, as examples of how gentlemen get ahead in this business.

The newcomer to the pro job will save himself much distress if he'll remember that drinking is something that very few good businessmen do in their offices, and that the club is the pro's office. At times though, it may be good business to join members for a drink, but it should be a soft one. One of the best pieces of advice I ever got from a grand older pro who is beloved by his members and has been for years in a fine job, is that the club and bag raffles are good if sold again by A. G. Spalding & Bros. and Hillerich & Bradsby Co., the film records a complete sound picture of the games. Lew Fonseca, promotional director of the American League, headed a crew of 12 cameramen, technicians and electricians, shooting between 18,000 and 25,000 feet of film to make the 2,000 foot two-reel finished product.

Both the 1943 and 1944 World Series pictures were smash hits from the start. Between 500 and 600 prints of the 1944 battle between the St. Louis Browns and St. Louis Cardinals went to all parts of the world, more than 6,000,000 fans viewing the production. Of that total, more than half were servicemen, many at Army and Navy bases throughout the world.

Army and Navy hospitals received the first prints of the series between the Detroit Tigers and the Chicago Cubs.