America's finest sportswear now is available for your Pro Shop merchandising
"Foremost Nationally Advertised Brands"

**Spur**

**FOUR-IN-HANDS • BOWS • BATS**

**SPORTSWEAR • BELTS • SUSPENDERS**

**GARTERS • BILLFOLDS • ARMBANDS**

**MUFFLERS**

---

**Rialto**

**FINE SHIRTS FOR MEN**

Suggested Retail Price

- #3009. Fine White Broadcloth Shirts, made with soft built-up collars (stays). $5.50
- #x141. Collar-button-down White Oxford Shirts. $5.00

May be ordered from stock at all times

RE-ORDER PADS AVAILABLE UPON REQUEST

---

**The Scoggins Golfer**

**SPORTS HEADWEAR**

Hats & Caps for Golf and Tennis

FEATURING

ADJUSTABLE HEAD SIZES

---

**SCOGGINS**

**LUG-GOLFER SHOES**

A new idea in comfort, confidence and convenience your players will enthuse over. Popular priced, in all sizes for men and women.

SOLD IN PRO SHOPS ONLY

---

**“WELGRUME”**

Finest Kid Mohair and Zephyr Wool

Sweaters and Sportswear

FOR THE GOLF PROFESSIONAL

---

**GOLF BAGS**

**DOUBLE EAGLE BRAND**

The Best in Golf

Manufactured exclusively for the golf professional by an experienced specialist.

---

**The Scoggins Golfer**

**SPORTS HEADWEAR**

Hats & Caps for Golf and Tennis

FEATURING

ADJUSTABLE HEAD SIZES

---

**SCOGGINS**

**AVON GOLFER**

An outstanding, easy walking spiked golf shoe. Moccasin type—with the new waterproof Avon-Dufflex cushion sole. Full range of sizes for men and women.

A Pro Shop Leader.

---

Visit our display room on the 7th fairway at your P.G.A. Club in Dunedin, Florida.

Represented by

**Howard Scoggins Golf Company**

DUNEDIN, FLA
Glass, Important Factor in Modern Clubhouse Design

A primary factor in the design of the modern day country club is a generous use of glass according to Oliver Sandquist, architect, Chicago, who undertook the work of redesigning the Tam O'Shanter Country club in suburban Chicago after making a study of the habits and preferences of the club members.

"Inherently," he points out, "country club members are outdoor people—lovers of nature as well as of sports. They like to enjoy the beautiful natural surroundings when inside the clubhouse as well as when they are on the golf course. Glass walls, which form murals of natural scenery, are the answer."

Consequently an expanse of window walls which afford full view of the outdoor scene, to be enjoyed by members whether they are dining or lounging in any of the club's many rooms, was included in the design.

The results, evident in the accompanying illustrations, show the transformation from English Tudor design to the clean-cut, functional lines of the present club building.

Floor-to-ceiling areas of glass on either side of all-glass entrance doors, virtually eliminate any demarcation line between the outdoors and the clubhouse lobby. The doors, made of Tuf-flex, an extra strong

Windows in the dining room are wide and deep, affording all diners a full view of the rolling terrain of club's golf course.

Spotless appearance of the kitchen is largely due to moisture-proof and grease-resistant walls of Vitrolite structural glass.
"Before" view of Tam O'Shanter clubhouse shows conservative English Tudor style architecture which prevailed before building was redesigned.

kind of plate glass, swing open by electric eye control.

The dining room, capable of seating 522 guests at one time, has enormous windows overlooking the golf course. Although these and all other large windows in the building are set in fixed sash, adequate ventilation is provided by smaller operating sash in panels between the large window openings.

An impressive feature in carrying out the architect's general theme for interior decoration is the mirrored wall at one end of the lounge and reception room. Virtually the entire room is reflected in the huge mirrored panels, making the lounge appear more spacious.

A plate glass partition between kitchen and informal grill room, enables members to view kitchen activities and facilitates service by permitting kitchen workers to see the diners and anticipate their needs.

The use of Vitrolite glass, specified for the walls, makes it possible to keep the kitchen in spotless condition. The highly polished surface reflects light and resists moisture, stains and grease. Besides facilitating cleanliness, the Vitrolite walls are an important factor in reducing maintenance costs.

Many golfers who have "made the swing" of country clubs have commented on the new clubhouse as one of outstanding design. This "open-plan" design leads the way in functional country club planning. George S. May, Tam's president, head of a Chicago engineering firm, is largely responsible for the club's successful history. In promoting the All-American tournaments he has made this club a meeting place for golfing celebrities. The club is located at Howard St. and Caldwell Ave., northwest of Chicago.

**Goodall Presents Second Golf Film**

"How To Improve Your Golf," full color, sound motion picture, is second film presented by Goodall Co., Cincinnati, devoted to championship golf action and instruction. The film is currently offered for exhibition by any of Goodall's accounts. It shows highlights of 1947 annual Goodall Round Robin tourney from preliminary Crosby match to final putt by champ Bobby Locke.

Instruction phase of thirty minutes film deals with important "musts" and action shots demonstrated by outstanding pros including Snead, Vic Ghezzi, Little, Hogan, McSpaden, Worsham, Mangrum, Hamilton, Barron, Vines, Oliver, Demaret, and Schoux.

The film will be available for showing at meetings of civic clubs, colleges, schools, at golf club gatherings or within account stores, all arrangements being made by store management.
**GELLER SURVEY**  
(Continued from page 34)

Island—Fresh Meadow CC, Great Neck; Glen Oaks Club, Great Neck; Inwood CC, Inwood; North Hills CC, Douglaston; North Shore CC, Sea Cliff; Wheatley Hills GC, East Williston; Pomonok CC, Flushing; Hempstead GC, Hempstead; Seawane Harbor CC, Hewlett; Nassau CC, Glen Cove; Strathmore-Vanderbilt CC, Manhasset.

Westchester—Fairview CC, Elmsford; Metropolis CC, White Plains; Bonnie Briar CC, Larchmont; Hampshire CC, Mamaroneck; Siwanoy CC, Bronxville; Briar Hills CC, Briarcliff.

New York City—Merchants Club; City Midday Club.

New Jersey—Glen Ridge CC, Glen Ridge; Preakness Hills CC, Paterson; Crestmont GC, West Orange; Arcola CC, Ridgewood; Essex Fells CC, Essex Fells; Maplewood CC, Maplewood; Forest Hills FC, Bloomfield; Essex Club, Newark; Orange Lawn Tennis Club, South Orange.

Connecticut—Round Hill Club, Greenwich; New Haven CC, New Haven; Woodway CC, Darien; CC of Waterbury, Waterbury; Race Brook CC, Orange; Stamford YC, Stamford; Riverdale YC, Riverdale; University Club, New Haven; Waterbury Club, Waterbury; Quinnipiac Club, New Haven; New Haven Lawn Club, New Haven.

Pennsylvania—CC of York, York.

Maryland—Congressional CC, Bethesda.

**Geller's No. 1 Brochure**

Forty-two club managers answer the following 23 queries:

1—What percent is charged to restaurant checks?
2—What per cent is charged to bar checks?
3—Gross sales for the year 1946 in restaurant?
4—Gross sales for the year 1946 in bar?
5—Average number of meals served on weekends only?
6—Is your club a tipping club?
7—Is your club a non-tipping club?
8—Do your employees share in a bonus fund?
9—Is withholding tax on employees working 2 days a week figured on daily or bi-weekly basis?
10—Do you use a checker in the restaurant?
11—Do you use a checker in the bar?
12—Does your club use a signing system for all services?
13—Do your club members pay cash for all services rendered?

14—List total payrolls during 1946:

<table>
<thead>
<tr>
<th>Department</th>
<th>Payroll</th>
</tr>
</thead>
<tbody>
<tr>
<td>Restaurant</td>
<td>$</td>
</tr>
<tr>
<td>Bar</td>
<td>$</td>
</tr>
<tr>
<td>House</td>
<td>$</td>
</tr>
<tr>
<td>Greens</td>
<td>$</td>
</tr>
<tr>
<td>Administrative</td>
<td>$</td>
</tr>
</tbody>
</table>

15—List average during 1946 of food cost.
16—List average during 1946 of bar cost.
17—What is the caddie fee for nine holes?
18—What is the caddie fee for 18 holes?
19—What is caddie fee for double 9 holes?
20—What is caddie fee for double 18 holes?
21—Are caddies charged?
22—Are caddies paid in cash?
23—Please add any other comments.

**Brochure No. 2**

Presents a payroll survey and gives wages in following categories:

**Restaurant Department—Regular**

<table>
<thead>
<tr>
<th>Position</th>
<th>Payroll</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chef</td>
<td>$</td>
</tr>
<tr>
<td>Second Cook</td>
<td>$</td>
</tr>
<tr>
<td>Pastry Chef</td>
<td>$</td>
</tr>
<tr>
<td>Fry Cook</td>
<td>$</td>
</tr>
<tr>
<td>Night Chef</td>
<td>$</td>
</tr>
<tr>
<td>Pantry Man</td>
<td>$</td>
</tr>
<tr>
<td>Kitchen Man</td>
<td>$</td>
</tr>
</tbody>
</table>

**Restaurant Department—Extra**

<table>
<thead>
<tr>
<th>Position</th>
<th>Payroll</th>
</tr>
</thead>
<tbody>
<tr>
<td>Head bartender</td>
<td>$</td>
</tr>
<tr>
<td>Bartender</td>
<td>$</td>
</tr>
</tbody>
</table>

**Bar Department—Regular**

<table>
<thead>
<tr>
<th>Position</th>
<th>Payroll</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineer</td>
<td>$</td>
</tr>
<tr>
<td>House man</td>
<td>$</td>
</tr>
</tbody>
</table>

**Bar Department—Extra**

<table>
<thead>
<tr>
<th>Position</th>
<th>Payroll</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bartender</td>
<td>$</td>
</tr>
</tbody>
</table>

**House Department—Regular**

<table>
<thead>
<tr>
<th>Position</th>
<th>Payroll</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office Manager</td>
<td>$</td>
</tr>
<tr>
<td>Assistant Manager</td>
<td>$</td>
</tr>
</tbody>
</table>

**House Department—Extra**

<table>
<thead>
<tr>
<th>Position</th>
<th>Payroll</th>
</tr>
</thead>
<tbody>
<tr>
<td>House man</td>
<td>$</td>
</tr>
</tbody>
</table>

**Greens Department—Regular**

<table>
<thead>
<tr>
<th>Position</th>
<th>Payroll</th>
</tr>
</thead>
<tbody>
<tr>
<td>Greensman</td>
<td>$</td>
</tr>
</tbody>
</table>

**Greens Department—Extra**

<table>
<thead>
<tr>
<th>Position</th>
<th>Payroll</th>
</tr>
</thead>
<tbody>
<tr>
<td>Greenkeeper</td>
<td>$</td>
</tr>
<tr>
<td>Foreman</td>
<td>$</td>
</tr>
</tbody>
</table>

**Administrative Department**

<table>
<thead>
<tr>
<th>Position</th>
<th>Payroll</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assistant</td>
<td>$</td>
</tr>
</tbody>
</table>

**Entrees**

<table>
<thead>
<tr>
<th>Item</th>
<th>Payroll</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sardines</td>
<td>$</td>
</tr>
<tr>
<td>Half grapefruit</td>
<td>$</td>
</tr>
<tr>
<td>Meat in season</td>
<td>$</td>
</tr>
<tr>
<td>Smoked salmon</td>
<td>$</td>
</tr>
</tbody>
</table>

**Appetizers**

<table>
<thead>
<tr>
<th>Item</th>
<th>Payroll</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tomato juice</td>
<td>$</td>
</tr>
<tr>
<td>Marinated herring</td>
<td>$</td>
</tr>
</tbody>
</table>

**Vegetable**

<table>
<thead>
<tr>
<th>Item</th>
<th>Payroll</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asparagus</td>
<td>$</td>
</tr>
</tbody>
</table>

**Soup**

<table>
<thead>
<tr>
<th>Item</th>
<th>Payroll</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consomme</td>
<td>$</td>
</tr>
</tbody>
</table>

**Entrees**

<table>
<thead>
<tr>
<th>Item</th>
<th>Payroll</th>
</tr>
</thead>
<tbody>
<tr>
<td>Whole broiled lobster</td>
<td>$</td>
</tr>
<tr>
<td>Minute steak</td>
<td>$</td>
</tr>
</tbody>
</table>

**Meat**

<table>
<thead>
<tr>
<th>Item</th>
<th>Payroll</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prime rib of beef</td>
<td>$</td>
</tr>
</tbody>
</table>

**Fish**

<table>
<thead>
<tr>
<th>Item</th>
<th>Payroll</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smoked salmon</td>
<td>$</td>
</tr>
</tbody>
</table>

**Brochure No. 3**

Presents menu prices and deals with the price of meals.

**Appetizers**

<table>
<thead>
<tr>
<th>Item</th>
<th>Payroll</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tomato juice</td>
<td>$</td>
</tr>
<tr>
<td>Marinated herring</td>
<td>$</td>
</tr>
</tbody>
</table>

**Soup**

<table>
<thead>
<tr>
<th>Item</th>
<th>Payroll</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asparagus</td>
<td>$</td>
</tr>
</tbody>
</table>

**Entrees**

<table>
<thead>
<tr>
<th>Item</th>
<th>Payroll</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smoked salmon</td>
<td>$</td>
</tr>
</tbody>
</table>

**Meat**

<table>
<thead>
<tr>
<th>Item</th>
<th>Payroll</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prime rib of beef</td>
<td>$</td>
</tr>
</tbody>
</table>

**Fish**

<table>
<thead>
<tr>
<th>Item</th>
<th>Payroll</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smoked salmon</td>
<td>$</td>
</tr>
</tbody>
</table>

**Brochure No. 4**

Presents menu prices and deals with the price of meals.

**Appetizers**

<table>
<thead>
<tr>
<th>Item</th>
<th>Payroll</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tomato juice</td>
<td>$</td>
</tr>
<tr>
<td>Marinated herring</td>
<td>$</td>
</tr>
</tbody>
</table>

**Soup**

<table>
<thead>
<tr>
<th>Item</th>
<th>Payroll</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asparagus</td>
<td>$</td>
</tr>
</tbody>
</table>

**Entrees**

<table>
<thead>
<tr>
<th>Item</th>
<th>Payroll</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smoked salmon</td>
<td>$</td>
</tr>
</tbody>
</table>

**Meat**

<table>
<thead>
<tr>
<th>Item</th>
<th>Payroll</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prime rib of beef</td>
<td>$</td>
</tr>
</tbody>
</table>

**Fish**

<table>
<thead>
<tr>
<th>Item</th>
<th>Payroll</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smoked salmon</td>
<td>$</td>
</tr>
</tbody>
</table>
SELLS ON SIGHT!
New 1947 model "B"

Now! Wagner has adopted your suggested improvements in the new Model "B"... America's finest golf cart is now better than ever. The main shaft is of super-strong steel tubing—the handle is solid duraluminum bar. Ratchet teeth are hardened steel—cannot be stripped. Head casting adjustable for any height of golf bag. The axle is wider to prevent tipping. Besides these big improvements, the 1947 Wagner Golf Cart embodies all the many exclusive features and de luxe quality that have made it sell on sight wherever golfers gather. Big discount to Golf Clubs and Pros—get your share of this profitable business.

$27.50 LIST PRICE

Send for free, colorful folders to distribute—they'll help you sell!

PAUL G. WAGNER CO.
2877 East Washington Boulevard
Los Angeles 23, California

Berner means
QUALITY GOLF EQUIPMENT

FRED MATZIE
REGISTERED WOODS
Highly finished Rock Maple heads, Airprop laminated, True Temper shafts, Rain or Shine Grips. To pass only. Matched sets of three or four.

LEVINGS WOODS
by FRED MATZIE
Popular dark finish, Rock Maple heads, airprop laminated, True Temper shafts, Rain or Shine Grips... Matched sets of three or four.

"SNUGFIT" Golf Gloves
All ladies' and men's sizes in five well-made lines. Deer skin palm, leather roll binding. Goat skin or Dog skin palm, leather roll or cloth binding. All capeskin backs.

"SPIKEY" Universal Spike Wrench and scraper is chrome plated, heat treated, a long-lasting quality tool. At only 35¢ retail you can put one in every member's bag. And it's also a bottle opener. Packed fifty per box.

"RAIN OR SHINE" Grips
Hold with dry-grip firmness in wet or perspiring hands. Do not check, crack or glaze. Uniformly balanced. Shaft holes perfectly centered. Neoprene and cork, attractive, easy to mount, they save you plenty of time at the bench.

Drop a card for full information, prices, liberal discounts on the complete Berner line, and the name of Berner's agent in your vicinity.

BERNER COMPANY
801 EAST 8th STREET
LOS ANGELES 21, CALIF.

Desserts
Apple pie
Baked apple
Fruit pies in season
Custard
Fruit compote
Pastry
Rice pudding

Beverages
Coffee
Coca
Tea
Coca-cola
Milk
Crab flake
Salads
Shrimp
Chef's salad
Half cold broiler
Lettuce and tomato
Fish
Dinners (complete)
Chicken
Steak
Lobster
Lamb chops (2).

Brochure No. 4

Liquor Prices.

Scotch
Ba.
12-year-old
8-year-old
Rye
Bonded, etc.
Bar
Canadian Club
Special brands
Collins, Tom
Bourbon
Collins, Rum
Cocktails
Daquiri
Martini
Old Fashioned
Manhattan

Champagne
Domestic
Imported
Half fifth
Half fifth
Fifth
Fifth

Size Drinks Used (ounces)
Whiskey
Cordial
Highball
Cocktail
Collins

North Hills Food, Liquor Gross High

President Koch's North Hills club is the most active of the golf clubs listed by Geller in his illuminating report. With a filled membership roster of 300 and a sizable waiting list, North Hills last year grossed $130,604.13 in food and collected $122,096.81 at its bar. The City Midday Club, located at 23 South William Street, a nub-lick shot from Wall Street and the financial section, grossed $146,648.66, but was eclipsed at the bar by the Douglaston club. City Midday liquors grossed $14,700.20.

Of the golf clubs, Fresh Meadow's restaurant was runner-up to North Hills as the busiest in the Geller report, with a gross revenue of $113,970.42, but the bar business of $26,963.18 was a far cry from the impressive figures released at North Hills.

About half the clubs charge 10 per cent to the members' restaurant checks. A few add 15 per cent. About the same percentage prevails in assessing the bar checks.

The average number of meals served on weekends runs from 1,200 at Glen Oaks and 1,000 at Fresh Meadow to 150-200 at some of the smaller clubs. The average is 450.

A majority of the clubs prohibit tipping, but 98 per cent establish a yearly bonus for the employees.

Golf clubs are a trusting lot, it seems, for the Geller report reveals that, with the exception of parties, they hire neither a food nor bar checker. A majority of the clubs answered in the affirmative when asked about the use of signing tabs. Less than 10 per cent of the clubs permit members to pay cash for all services rendered.

The restaurant payrolls run the clubs from $45,954.62 to $12,618, the former being one of the swankier clubs of the Long Island area and the latter a smaller club in the same area. To be expected, North Hills spends the most money on its bar—$11,478.89, while Fresh Meadow's house salaries run tops—$17,114.78.

The average spent on course maintenance is $11,000. Fresh Meadow leads with an annual budget of $35,176.88. The Great Neck club's property takes in some 200 acres of undulating terrain, with tree-lined fairways. The administrative budgets run from $5,500 to $23,000, the latter being the figure quoted by one of the Westchester clubs.

Caddie fees vary, with Fresh Meadow, taking into consideration its hills and dales, offering the peak wages to the bag toters. For nine holes the fee is $1.75, eighteen holes $2.75, nine double $3.50 and a double 18 round $5.50. The average fee is $1.75 for 18 holes and $3.00 double. Most clubs pay caddies in cash.

In charging for liquor, the Geller report shows that the clubs grossing the big money charge far lower prices than those with far less revenue. North Hills, as an example, charges 65 cents for an ounce and quarter of Scotch, while other clubs charge as much as 90 cents for an ounce.

The clubs reported increased activities, in all categories, with most planning improvements following a long period of inactivity along those lines due to the war years. All clubs are operating at a profit, due to membership rosters being at the saturation point.

Golfdom
"CLUB MANAGERS DAY"
Monday, November 10, 1947
Sponsored by
Club Managers of the City of New
York, Metropolitan Club Managers
Association, New Jersey Club Man-
gers Association and Connecticut
Club Managers Association

Chairman
Joseph P. Tonetti
New Haven Country Club

Program
10 A.M. — Board of Directors Meet-
ing — “Club Managers
Association of Connecti-
cut” — HOTEL PENN-
SYLVANIA
12 Noon — National Hotel Exposition
— Opening Luncheon —
Hotel Pennsylvania
2 P.M. to — Registration at Hotel Show
6 P.M. — Club Managers Association
of America—Grand Cen-
tral Palace, Booth No.
547
4 P.M. — Connecticut Club Managers
Annual Meeting—Fourth
Floor
4:15 P.M. —
“ASSOCIATION HIG-
LIGHTS”
Eric Koch, North Hills
Country Club
“CONVENTIONS AND
REGIONAL MEET-
INGS”
Eugene F. Sweeney, Em-
pire State Club, Inc.
“THE MINNEAPOLIS
CONVENTION”
Richard H. Hirmke,
Minikahda Club, Chair-
man, 1948 National Con-
vention

GOLF PROS—MAKE
your shop Service Headquarters for
Golfers by being prepared to install
PARK “ALL WEATHER” GRIPS. Used
by nearly all tournament winners and
leading players everywhere. You
can get them on all new clubs. Use
coupon today.

PARK "ALL-WEATHER" GRIP — Greatest Grip in Golf!
R. H. Tractor Wheel SPUDS

quickest to put on or take off. Increase tractor efficiency and cultivate turf. That's why more than half the U.S. and Canadian clubs use them. Durable and low priced.

Sample spud and circular on request; advice made of tractor and purpose for which intended.

Immediate shipment.

If your Ford or equipment dealer cannot supply, write direct to

R. S. HORNER

Geneva, Ohio

MFR. OF SPUDS, FORD SON WHEELS, ETC.

Zolan's caddie record card, back of which is detailed employment blank.

PRINTED FORMS

(Continued from page 45)

out. If the pro desires, this system can be supplemented with the use of caddie slips.

As a final suggestion and one which will be a saving to the pro who sets up this or a similar system of records it may be wise to leave space for your club affiliation when having your statements, order blanks, charge slips, credit memos, and lesson cards printed. Using a rubber stamp for this information prevents the necessity of completely reprinting these forms in case a change in affiliation is made within a matter of a few years, taking advantage of lower costs for quantity printing.

Bill Gordon, Tam O'Shanter CC pro (center) newly elected pres. Ill. PGA with Lou Strong (left) Park Ridge CC, Sec'y-Treas. and Alex Cunningham, retiring pres., made honorary pres. for life, after 13 years of leadership. —Photo by J. Van Fossen
Greenkeepers in attendance at Connecticut Turf Meeting held at Country Club at Waterbury.

TURF ROUNDUP (Continued from page 56)
cut at various heights to meet golfing requirements, and which is available as seed at a low price, is tall fescue (Alta fescue or Kentucky 31 fescue). Alta fescue currently is available on the open market at half the cost of Kentucky 31, production of which is still limited. Performance of the two types virtually is identical. At the Beltsville Turf Gardens four-year-old Alta fescue turf, mowed 3 to 4 inches in height, has remained weed- and clover-free. Seeded in May into heavy crabgrass infested soil and kept at rough height, Alta fescue has survived the summer in the worst crabgrass year in a long time.

EQUIPMENT
Among the new developments in turf maintenance equipment there isn’t much doubt but that the orchids go to the Mas- caro boys at West Point Lawn Products, West Point, Pennsylvania, for their Aeri- ficer which (1) is simple and sturdy in construction, (2) requires only common sense to operate, (3) is reasonable in cost, (4) has many uses, and (5) is available. The reason for the orchids is that, for the first time in turf history, it is possible to cultivate the soil under a cover of turf without destroying the turf. The need for cultivating and loosening compacted soils has long been recognized.*

Chet Mendenhall at Mission Hills, Kansas City, Missouri, was among the first to use the machine on 18 Seaside bent putting greens using the 1-inch spoons.

Jimmie Hamner, Memphis Country Club, Tennessee was one of the first to aerify 18 fairways ahead of the lime and fertilizer program and to use it on his Bermuda greens while they are in play.

Joe Valentine at Merion Golf Club, Philadelphia, was the first to report excellent results for cultivating tees.

Alex Strachan at Old York Road uses it to sprig Arlington (C-1) bent into his fairways.

At the Beltsville Turf Gardens it is used to sprig U-3 Bermuda grass and to reseed turf areas to other species. Even the casual observer can see how moisture penetrates the soil after its use, resulting in slower runoff and greater moisture conservation.

GRASSES
Bentgrasses—Arlington (C-1) bent is nominated for the best “all-round” creeping strain, producing superior results over varied climatic regions, in successful use on tees, greens, fairways and lawns, highly disease-resistant and capable of rapid recovery from attacks of disease, exceptionally drought and heat-tolerant and non mat-forming. Other strains may produce putting turf under high cut (over 1/4”) but, to our knowledge, Arlington has produced better turf at lower cost over a wider range of conditions than any other bent tested with it.

At the Rhode Island Station the untreated half of the Arlington plot is indistin- guishable from the half treated regularly for disease since 1940. The untreated half of the Washington plot is virtually ruined.

In North Carolina Poa annua invaded Arlington more slowly than any other bent tested.

In St. Louis it resists heat and grows in heavy clay soils better than any other bent.

NOTE: The Green Section recognizes the risk of censure in “plugging” any piece of equipment. To fail to recognize an outstanding achievement would render us equally open to criticism because our policies are founded on the goal of “Better Turf.” We take this risk because we sincerely believe, not in the machine as such, but in the principle which it embodies. To our knowledge there has been no other similar machine built or offered which has equal uses and possibilities. The Green Section will recognize each year in this “Roundup” the outstanding achievements in turf maintenance as their value is demonstrated.

Fall, 1947
In Tulsa, Oklahoma, mowed at fairway height, it survived a long summer drought without irrigation.

In Minneapolis it has performed consistently well in fairways and at putting green height.

Seed has been produced from the pure strain and has been sent to 10 different cooperating stations in the United States for testing and for further possible selections. It appears to set seed well.

On the basis of its performance, Arlington bent may well be used as the standard of comparison for newer and more promising strains of creeping bent. Arlington is in wide commercial production.

**Seeded bentgrasses**—The trend today, particularly in fairway seedings where the use of bentgrasses is increasing, is to make a blend of the available bentgrasses produced from seed. Lacking specific data on adaptation, the maximum of “Safety in numbers” is a good one to follow. Seaside may predominate in regions free from snowmold. The Colonial types tend to be more drought-tolerant.

A vigorous, widespread, cooperative attack on the problem of producing superior bentgrass turf from seed is in progress.

**Bluegrasses**—We nominate B-27, recently named Merion, for top honors in the Kentucky bluegrass field. Seed production will not reach commercial volume for several years and then probably will always command a premium price until replaced by a superior strain. We mention it here because it offers greater hope to lovers of Kentucky bluegrass turf. Merion is rich in color, low-growing and is highly resistant to leafspot.

At Beltsville it has been more free of crabgrass than any other strains or source of bluegrass.

At Rhode Island it has resisted the natural invasion of bentgrasses more than bluegrass from any other source.

Through TIMELY TURF TOPICS the Green Section will announce the availability of samples of Merion bluegrass seed to USGA member clubs and to Green Section subscribers for practical testing.

**Red Fescues**—Testing programs in progress at cooperating experiment stations are not sufficiently mature to warrant statements on “top honors” in this group. Named strains are available but their comparative values are still in doubt.

**Tall Fescues**—Alta and Kentucky 31 are the best known grasses in this group but their comparative value for turf is not yet known. Finer-bladed strains of tall fescues are known but as yet have no practical significance. Many golf courses have seeded Alta fescue under varied conditions but reports on progress are lacking. Alta has found wide use on airfields, roadsides, and athletic fields. It has promise for park turf where fine texture and close cutting are neither necessary nor desirable. The tall fescues give us drought tolerance, toughness, and ability to survive under extremely unfavorable conditions and over a wide range of climates and soils.

**Zoysias**—A full scale breeding and testing program, begun in 1946 by the Green Section and the Division of Forage Crops (USDA), is still too new to have produced measurable results. Promising progress is that selected strains of *Zoysia japonica* set seed well at Beltsville and the seed can be treated to produce good germination in the field. The first turf plots from seed of these selected strains were established in June 1947. Three-months-old turf was solid in September with no crabgrass or other weeds being removed.

The most promising selected strain of *Zoysia japonica* which sets no seed at Beltsville is that designated as Z-9. Among the purely vegetative strains, this one receives top honors at this date. Leaf width is intermediate between *Zoysia matrella* and common *Zoysia japonica*. It has a yellowish cast, thin “white” stolons, spreads relatively rapidly, and is apparently winter hardy at State College, Pennsylvania. It was first selected by Mr. S. B. Detwiler and was given to the USGA Green Section in 1939. It can be mowed at any desired height without injury and produces a dense, firm, weed-free turf.

**Poa Annua**—This grass is included in the “roundup” because it has proved to be a blessing in disguise where the North meets the South and vice versa. Bermuda and Zoysia tees, closely mowed for better golf, are invaded naturally in the fall by *Poa annua* when these summer-growing grasses lose their color and go dormant, with cold weather. The density and vigor of *Poa annua* (when it is good) are admired openly by many (secretly by others) for its turf value. When it “melts” in summer leaving behind a “desert” condition everywhere reviles it—everyone, that is, except those who have a strong summer-growing grass like Bermuda or Zoysia under it. Perhaps this opens a new chapter in turf maintenance.

**Bermuda Grass**—Alternately loved for its virtues and damned for its persistence, and aggressiveness this grass has won a high place in the turf picture. For fine texture, deep rich color, freedom from disease, and extreme winter-hardiness, we nominate the Green Section-selected and developed U-3 strain of Bermuda grass, not named as yet, for top honors in the northern-most regions where Bermuda grass can be grown. Its northern limit has