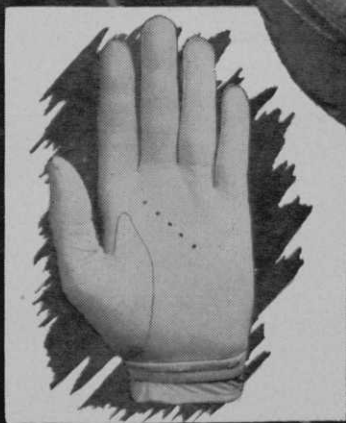


MORE BUSINESS NEXT SPRING with CHAMPION GOLF GLOVES

The fine quality and easy fit of every CHAMPION golf glove will make more business for you this coming spring. Golfers know CHAMPION as superior . . . for a smooth, true-feel of the club.

New STA-TITE by
CHAMPION with pat-
ented fastik back and
elastic wrist band.



Write today for new illus-
trated catalogue on the
complete line of golf
gloves by CHAMPION. Get
set now for more spring
business.

Champion

GLOVE MANUFACTURING CO.

309-11 COURT AVENUE • DES MOINES, IOWA

GET GREATER TRACTION!



CHAMP
SELF LOCKING
GOLF SPIKES

EXCLUSIVE!



YOU CAN'T BREAK 'EM APART!

ARE YOUR SPIKES MARKED Hardened Steel?

THEN THEY'RE **CHAMPS** THE PROVEN SPIKE!

20,000,000 NOW IN USE!

CHAMPS OUTSELL ALL OTHERS 2 to 1

MAC NEILL ENGINEERING CO. • WALTHAM, MASS.

buquerque, N. M. . . Nassau County, N.Y. to build \$1,700,000 clubhouse at Nassau County park and course, Salisbury . . . Hayward (Calif.) GC to be expanded from 9 to 18 . . . Architects of new public, private and semi-private courses certainly doing good jobs in providing convenient practice range areas . . . Several new courses have ranges opened before courses and ranges have steamed up lot of eagerness to play . . . Lights on some of the course ranges.

New watering system at Cherry Hills CC, Denver, enabled Supt. Vic Lindholm to have the course in presidential condition for Ike . . . Howard H. Peck now pro at Sleeping Giant GC, Cheshire, Conn. . . Edward C. Lapierre, 110 Cameron st., Pawtucket, R. I., planning to build 9-hole course at Attleboro, Mass.

Pickens County CC., Easley, S. C. formally opens first 9 of its eventual 18 . . . Bob Renaud is pro . . . Engineers recommend to city of Greenville, S. C. that when present site of city dump is filled in estimated 5 years, property be used for many course . . . Open \$100,000 9-hole addition to Geneva-on-the-Lake, O. many course . . . James G. Harrison architect of the

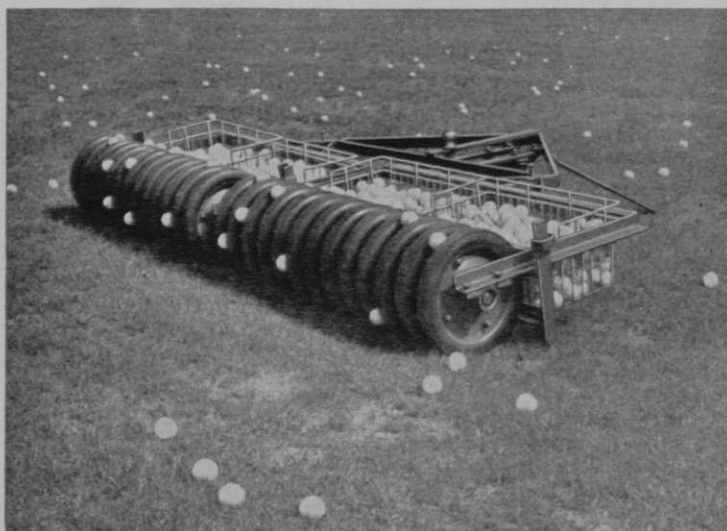
NEW!

**LOCKIE
JUNIOR
BALL
PICKER**

for
**COUNTRY
CLUBS and
GOLF COURSES**

Where practice
tees are in use.

**GOLF DRIVING
RANGES**



Identical in design and features to the Lockie 3 section Ball Retriever. Free-wheeling—will not mar or otherwise damage balls—Easy on turf—Contour Flexibility—Durable heavy steel frame—Galvanized steel wire hoppers. Measures 7 feet overall. Write for descriptive literature.

PRICE **\$295.00**
F.O.B.
BETTENDORF, IOWA.

WITTEK **GOLF RANGE SUPPLY CO.**
5128 W. NORTH AVE., CHICAGO 39

Insist on the champ!...

AUTOETTE Golfmobile



BOB HOPE and Ted Cadman, managing director of Tamarisk Country Club, are shown enjoying Bob's jaunty, new Autoette Golfmobile, a standout on any course.

THE GOLF CAR WITH EXTRA POWER
 Drive your own or rent one from your pro—but be sure to play golf next time with an Autoette Golfmobile. America's best golfers at the most famous golf clubs, know there's only

one Golfmobile. Made by Autoette, the world's biggest manufacturer of electric cars. It's more powerful, more dependable, more fun than any other golf car ever produced. It really puts the Go in Golf!



mail this coupon for illustrated brochure



Note to Pros & Club Managers: Let Autoette help you prepare a rental plan that will make Golfmobiles available to your club members at rates they will approve—bringing extra income to you. Mail the coupon today.

P. S. to Golf Course Superintendents: We also manufacture a 1/4-ton Autoette Pickup Truck for transporting tools, seeds, supplies. Like the Autoette Golfmobile, this speedy electric pickup is powerful, dependable, and will not harm the turf.

AUTOETTE, INC. Dept. 1104
 730 WEST ESTHER • LONG BEACH 13, CALIF.

Please send me brochure describing Golfmobile . Pickup Truck . I am interested in information about renting Golfmobiles to members of my club .

Name _____

Address _____

City _____ State _____



Mary Crouch

WOODCARVING REPRODUCTIONS

Actual hand-carved miniatures reproduced in durable Dextron. Handpainted in colors—yellow, red or blue. Order "Fore", "Putt" or "Buster" for pro shop display, gift or prize.

RETAIL \$4.95 EACH • SET OF 3 \$13.95
ATTRACTIVE TRADE DISCOUNT 40 & 5

HOWIE CILSDORF
PACIFIC GOLF SUPPLY CO., INC.
GOLF UNLIMITED

RANGE • MINIATURE • PRO SHOP
BOX 3006 • VAN NUYS, CALIFORNIA

new 9 . . . John Evans has been pro there 22 years.

Santa Maria (Calif.) CC \$25,000 clubhouse replacing one destroyed by fire May 31, opened . . . White Mountain GC plans building course in Sitgreaves National Forest near Pinetop, Ariz. . . Milt Coggins, pro at Encanto, Phoenix; John Hanley, supt., Sundown Ranch GC, Scottsdale, and H. Glenn Lawis, landscape architect for the forest service, collaborating in designing course.

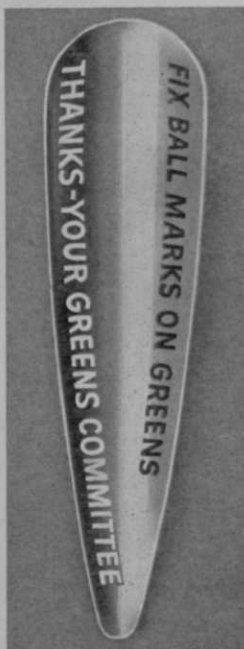
Bernie Guenther, San Clemente, Calif., proposes to build course at Rancho Carrillo, near Coronado, Calif. . . . Budd L. Aven heads Antelope Valley CC, planning to build 9-hole course near Lancaster, Calif. . . . Student volunteer workers from 3450 Technical Training Group build 9-hole course on military post near Cheyenne, Wyo.

Hillmoor GC, near Lake Geneva, Wis., modernizing clubhouse . . . Earl Brickner proposes building 9-hole semi-private course at Ellsworth, Wis. . . . Second 9 of Kinston (N. C.) CC course opened . . . Gene Hamm pro, Mount Airy (N. C.) CC.

(Continued on page 136)

STOP BALL MARKS ON GREENS

with this handy DIVOT FIXER



ACTUAL SIZE

No need for Green Chairmen or Golf Course Superintendents to continually shoulder the blame for greens having those ugly ball marks.

Provide your golfers with this inexpensive tool and have 200 to 400 men and women help maintain those beautiful and expensive greens.

Our many repeat orders prove that this little tool has a definite place on all golf courses.

This tool can be used as a shoe horn—to clean dirt from spikes and upper soles of shoes; also clean scoring from club heads.

Prices: for nickel plated, plain or imprinted as shown—

F.O.B. Des Moines, Ia.:

1000 — \$65

500 — \$35

250 — \$20

Sample package of 40 for \$5.00 Postpaid.

Ten dollars extra for imprinting name of firm or club. Limit of 25 letters and spaces for upper; 29 for lower line.

WOODSIDE GOLF & PARK SUPPLY CO.

Des Moines 13, Iowa

Rutledge CARTS and CLUBS

Feature Them as Gifts, as they are Shown
in GOLFDOM's Christmas Shoppers' Guide
Distributed by Pros throughout the Country

EASIEST OF ALL CLUBS TO PLAY

More than 1,000,000 Sold—and there is
a large and growing Replacement Market

Stroke Savers are famous for their square grips and short shafts, which give golfers the greatest possible directional accuracy for shots within 50 yards of the green where $\frac{2}{3}$ of the game is played.

Heads are triple plated chrome, grips perforated brown leather. Putter 31", Approach Cleek 32", Chipper 33". Right or left hand.....

\$9⁹⁵ each



NEW 55 CADDY SAVER



The Original Cart that rolls when folded.

Everywhere acclaimed as the finest, easiest to operate cart. Relieves the strain on caddies, especially small boys, and for use when playing without caddy.

A special ratchet control holds handle firmly in any position—it cannot slip. The new 1955 bracket accommodates any style bag from ladies' short size to any style or shape man's bag. Easy to push or pull, open or closed. Ball bearing wheels, semi-pneumatic tires.

With 10" Wheels \$28⁹⁵
With 12" Wheels \$32⁹⁵

● WALLOPER

The fastest selling special club ever developed. Takes the place of woods for players who have difficulty with woods. Has the lie of an iron with the bulk and power of a wood. Comes with standard round grip. 39" long. Right hand only.....

\$12⁵⁰

● TRAPSHOOTER - NIBLICK

A two-purpose club, scientifically designed to play difficult lies out of sand traps, heavy rough and long grass. Has deep head and

practically no sole. Standard round grip. 35" long. Right hand only

\$10⁹⁵

● RUTLEDGE PUTTER

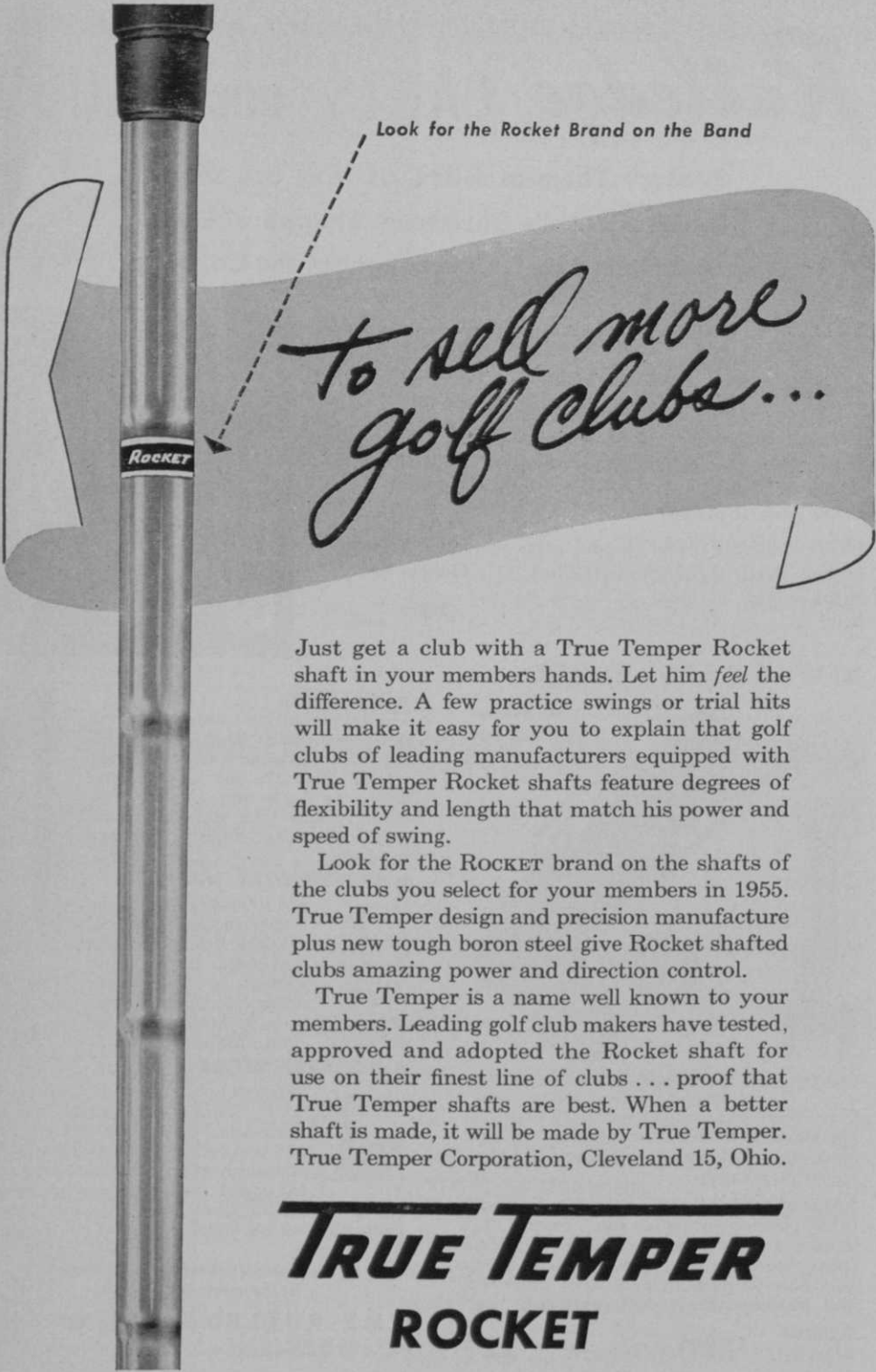
When a golfer sees it, he wants to try it—then you can't take it away from him. It gets the putts down and brings confidence to golfers who constantly change putters and putting styles. The Rutledge gives un-failing directional accuracy. Square grip. Right or left hand.

34" long \$9⁹⁵

Send for Literature and Discounts
on the entire Rutledge Line.

THE RUTLEDGE COMPANY

3337 Belmont Ave., Chicago 18, Ill.



Look for the Rocket Brand on the Band

*To sell more
golf clubs...*

Just get a club with a True Temper Rocket shaft in your members hands. Let him *feel* the difference. A few practice swings or trial hits will make it easy for you to explain that golf clubs of leading manufacturers equipped with True Temper Rocket shafts feature degrees of flexibility and length that match his power and speed of swing.

Look for the ROCKET brand on the shafts of the clubs you select for your members in 1955. True Temper design and precision manufacture plus new tough boron steel give Rocket shafted clubs amazing power and direction control.

True Temper is a name well known to your members. Leading golf club makers have tested, approved and adopted the Rocket shaft for use on their finest line of clubs . . . proof that True Temper shafts are best. When a better shaft is made, it will be made by True Temper. True Temper Corporation, Cleveland 15, Ohio.

TRUE TEMPER
ROCKET

Year's Turf Round-up Shows Labor Better, Weather Worse

By O. J. NOER

FOR THE FIRST TIME since before World War II golf course labor has been more plentiful and more efficient. Yet many clubs continue to rely upon student help from mid-June to mid-September. They are satisfactory for many tasks, but are not suited by temperament to do some of the exacting jobs. Temporary help seldom handles water properly unless supervised closely.

In too many instances youngsters have been made responsible for watering of greens without any instruction about the evils of over- and underwatering. They have not been taught the importance of detecting and stopping wilt promptly on hot, windy days. Those who have selected the water man carefully and taken the time to instruct him in his duties have had the least trouble with bent or poa annua putting greens. Even then it has been important for the superintendent to check every green several times a day during bad weather.

Conferences Help South

The South is making big strides as a result of the investigations and turf grass conferences at Tifton, Ga.; Gainesville, Fla.; Stillwater, Okla.; Memphis, Tenn.; and College Station, Tex. The trend in the Deep South is toward fine textured Bermuda grasses on greens, and the use of selected strains on fairways and tees. There are many excellent greens of Gene Tift in South Florida and elsewhere. The Everglades selections are being used by some, and the Hall selections of Bermuda have done well on some courses. The Tifton 127, otherwise known as "Tiffine" is

now on many greens. The Texas selection T-35A should become another one of the good fine Bermudas. The better selections will provide superior putting surfaces. They must have player acceptance, and must have the ability to resist invasion by common Bermuda grass. The fine Bermuda must be handled differently than common Bermuda.

Overseeding of fine textured Bermuda may not be necessary everywhere. Some selections stay green despite cool weather, if cut close and fed properly.

Winter Greens with Finer Bermudas

Rye is not apt to be the best grass for winter greens with these finer Bermudas. Redtop alone, or possibly a mixture of redtop and seaside bent should be superior to rye grass because of their fine textured leaves. The bents germinate as fast as redtop, but do not spread quickly. It is a month before stooling starts. Redtop begins to spread at once and makes playable turf in a couple of weeks. Although seaside is a slow starter, it makes a wonderful putting surface by the first of the year. From then on it stays exceptionally fine. By using some redtop with seaside the greens will be ready for play right from the start.

Bermuda selections, such as Tifton 57, Ormond, etc. are being used to plant the fairways on many new courses. They are being used to improve established fairways on some of the old courses and are finding favor for tees. Anyone seeing the turf produced by these and other similar improved selections is impressed with their superiority over common Bermuda.

U-3 Bermuda, which should be called "Hall's U-3" according to Dr. Grau, is becoming more popular in the transition belt from Philadelphia and Washington across to Kansas City. There are many tees of it in that area, and a good start is being made on fairways.

The 17th Tee at Hercules CC in Wilmington, Del., is excellent, and among the fine examples of U-3 Bermuda turf. It was produced in less than two months. The old turf was skinned, the soil underneath was loosened then fertilized and the tee was planted vegetatively with Hall's

plug. Other faster methods are being tested.

Seeding of hulled Bermuda grass seed into established turf of northern grasses has been disappointing up to now.

Just how far north Bermuda can be used is not easy to answer. The U-3 Bermuda plot at the nursery of the Milwaukee County Park Commission was planted in late May, 1953. A good cover was obtained by fall. The winter was mild. The grass was alive in early March, but by late May it was dead. Not one sprig survived. Desiccation injury from drying winds during the extremely dry spring was the probable cause. Another plot, established in late May, 1954, produced good turf by August. A portion of this plot will be protected with a straw cover during the first winter. Professor H. L. Lantz reports loss of Bermuda at Ames, Ia., by winter-kill. The same thing happened in Chicago during the 1952-1953 winter.

Just because Bermuda fairways are good at Pine Valley and in St. Louis is no sign or proof that the same thing will be true in Chicago or in New York. Rather than struggle to get a cover of Bermuda there and lose it during the first severe winter, more progress should result from developing and using better strains of cool season grasses. There are enough examples of golf courses with good tees, fairways, and greens to substantiate and justify that kind of program.

The use of Bermuda grass in the north beyond the transition zone, and bent grasses in the deep South, should wait until there is more evidence at hand about their adaptability. Trials with them should be limited in scope.

Report on Bent Greens in South

The bent grass greens at Knoxville, Chattanooga, and Nashville, Tennessee, came through the season very well and are popular with the golfers. Arlington alone and the mixture of Arlington and Congressional performed well. In Oklahoma the Cohansey strain has been a good grass. Patches of it in several seaside bent greens stayed green and healthy when the seaside collapsed in a period of bad weather.

Success with bent in the near South depends upon several things. Weather comes first. Bent will withstand considerable heat in places of low humidity. That is the case in Oklahoma, West Texas, New Mexico, etc. Daytime watering to stop wilting in mid-day is necessary every day in the summer. The grass should be one of the bents like Arlington or Cohansey. The



Bill Kerr, pro at Beaconsfield, gives putting test of results of aerifying and Verti-cutting the club 18th green during Quebec Turf Field Day.

U-3. It covered fast because planting was done in late spring when warm weather was assured. This and other Bermuda tees at Hercules club are cut close with a greens mower and kept that way.

Over a period of years U-3 Bermuda tees may not survive if subjected to heavy play during the time Bermuda is dormant. An alternate tee of cool season grass may be one answer. Another possibility is to confine play to the front of the tee in fall, winter, and spring. This portion can be sodded or replanted with U-3 Bermuda in late spring each year.

Hall's U-3 on Fairways

The fine examples of U-3 Bermuda turf on the fairways at Pine Valley and on several courses in the St. Louis area are arousing interest in this grass for fairways. Since seed is not available, U-3 Bermuda must be planted vegetatively.

The use of small shallow plugs is not favored by some. They think plugs should be 3 to 4 in. in diameter and of about that thickness in order to survive in the struggle with existing vegetation. This is believed true on watered as well as unwatered fairways. A little fertilizer is dropped in the hole and mixed with the soil before inserting the U-3 Bermuda

Arlington-Congressional mixture has done well in Tennessee and Kentucky. Good drainage and the right kind of top soil are extremely important.

The necessity for good surface drainage is more important than most people realize. Water should leave the green as surface run-off in several directions. There must be ample cupping area. Both are matters of design. There must not be any depressions, pockets, or low spots to collect and hold ponded water. Grass is bound to die in these spots during bad spells of weather. This important construction detail is ignored by those accustomed to growing Bermuda. Newly built Bermuda greens are smoothed after the Bermuda starts growth by heavy dressings of soil. Those who do this to a new bent green smother the grass. The surface of a bent green must be perfect before seeding or planting with bent grass stolons.

Escape Snow Mold

The fall of 1953 was very dry almost everywhere in the North. The winter was a mild one with less than the normal amount of snow. There was little or no snow mold. The customary treatments stopped it. Polycross was the only one attacked by snow mold on the turf nursery at Royal Ottawa CC. Calo-Clor was used on the entire nursery and protected the other bent grasses. The injury to Polycross was not severe. This one instance does not justify condemning this fine grass. It has looked good in the States. Further testing in the snow mold belt is justified. With age the more resistant strains may assert themselves and make the turf behave differently with respect to snow mold.

Incidentally, the dominant strain in the Polycross seed production program has been named "Pennlu" and released for vegetative planting. The plots of Pennlu have been outstanding in performance at State College and at Purdue. Certified planting stock can be procured from Purdue at a nominal cost per bushel.

The spring was just as dry as the fall in many areas. There was desiccation injury on many greens and on matted patches of bent grass in fairways. Injury was reduced and recovery hastened by applying enough water in late fall to bring soil moisture up to field capacity and by starting to water earlier than usual in the spring.

Rains started in the Mid-West during June, but not until later in the East. In the Milwaukee-Chicago region rainfall was 15 in. by mid-July. There was enough

after that to keep roughs as well as fairways green. Weather was dry during the extremely hot part of the summer in Kansas City and St. Louis. There would have been worse trouble except for the limited amount of rain.

Iron Chlorosis Puzzles

Iron chlorosis was very bad in the Mid-West for the first time. It occurred during the rainy spells. Turf did not respond to fertilizer.

Some failed to recognize the off-color symptoms of iron chlorosis and were puz-



Mike Omelanoff, Detroit GC, supt., points to large patch of bent in poa annua approach. Mike set 4 in. plugs of bent scattered over poa annua area.

zled at the failure of grass to respond when fertilized.

Iron chlorosis is caused and aggravated by the presence of too much organic matter and too much available phosphorous in the soil. When it occurs from these things it is associated with overwetness from rain or overwatering.

In the West, a high pH or distinctly alkaline condition causes iron chlorosis.

Loss of grass can be prevented by prompt use of a little ferrous sulphate (copperas). The rate should not exceed 2 to 3 ounces per 1,000 sq. ft. with not more than 5 to 7 ounces of water. The iron sulphate must be deposited on the grass leaves and not watered-in. Prompt recognition of the symptoms and quick treatment is the only way to prevent loss of grass. Chelated iron performed no better and did not last any longer on the test plots at Fort Collins, Colo. The same thing happened in Milwaukee and Chicago. Additional investigations are needed to find out the conditions under which chelated iron will produce lasting results on putting green turf.

Leaf spot, anthracnose, and other related diseases caused damage to putting green turf. Sometimes they were not the



Here's one tree he'd love to

They're the golfer's ideal Christmas gift!

Spalding Golf Balls, the most popular Christmas gift for golfers, are ready in simulated red leather gift boxes, and also can be personalized for the ball cost alone. Choice of the new DURA-THIN® DOT® or rugged TOP-FLITE®, in dozen or half-dozen lots.

Minimum order is one dozen for individually personalized golf balls, at no extra charge. Each imprint limited to 18 letters and spaces—all inclusive.