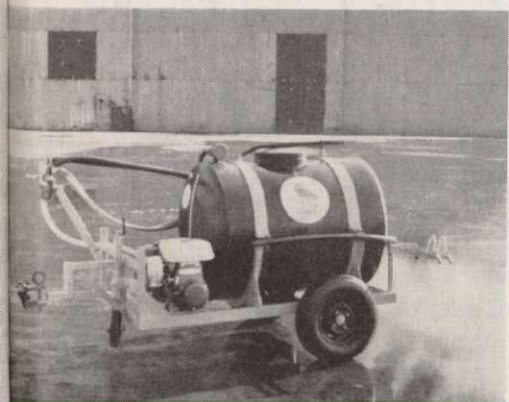


The British Golf Greenkeeper



October 1974

15p

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The British Golf Greenkeeper

HON. EDITOR: F. W. HAWTREE

No. 353 New Series

OCTOBER 1974

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Front Cover Picture

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Bottom Right:

88-gallon skid-mounted Dorman Sprayer unit mounted onto Hafinger platform, fitted with 30 ft cover, swan-nozzle (instead of a conventional spray boom) for rough ground operations.

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TEE SHOTS

On holiday in Scotland last month, I attended morning service in the local village with some friends. Before the service began, the minister came out of the vestry and removed the board showing psalm and hymn numbers. When he brought it back, the first item read 'Par 2' "Must have known you were coming" a friend whispered. "Must be a very short service" I whispered back. By chance the minister happened to be a golfer—plays at Fort Augustus, Annual subscription £3.00.

Golf International reports a Chi Chi Rodriguez new course in his native Puerto Rico. The layout has 19 holes, cart paths down the middle of the fairways and watering on the sides in the rough. The reasons for the innovations?—

The first hole in the round should never count—the middle of the hole should reward straight shots with a bounce for extra distance—most courses have watering centred on fairways stopping the ball dead on wet spots.

P.L. London Golf Club, a new course for both Japanese and British sponsored by a Japanese organisation, is now well into construction by Messrs. J. R. Bishop, the firm who reconstructed the Wembley Stadium. P.L. stands for Perfect Liberty, a state of mind which recreation through golf is believed to induce. The site is at Essendon, under 45 minutes north of London.

Reference is made in this issue of the magazine to Mr. Jack Wayman having retired after 42 years loyal service on the Green Staff of Ashridge Golf Club. May I add my good wishes to those of his Club and colleagues for a long and happy retirement.

Robert Trent Jones, in a talk before a group of Chicagoland superintendents, suggested that a monorail system might be a long-range solution to moving golfers around the course, rather than golf carts.

These will be the last Tee Shots written for this magazine as Hon. Editor. Best wishes to the new editor and thank you for your patience over the last seventeen years.



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Gold-N is completely different from conventional turf fertilizers. Following an initial boost of nitrogen, it supplies this vital nutrient slowly and continuously over a period of 3 to 6 months. All from a single application!

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Gold-N minimises scorching, tolerates variations in temperature and moisture. And because it's made to rigid specifications, every bag is as good as the next. It's easy to handle and spread - by hand or machine. And it's hygienic so there's no danger of the diseases associated with organics like hoof and horn. What's more the nitrogen content is virtually all usable.



Superior Performance

Gold-N saves money by eliminating leaching and other wastage. It works economically in situations where perhaps five or six dressings of the usual fertilizer would be required - keeping time and spreading costs to a minimum and increasing playing time. It will help to transform sparse growth areas to lush swards in one or two seasons and after only one application per season.

For full details of Gold-N, contact:
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N. Ireland - Richardsons (Ulster) Ltd., 1 Short Strand, Belfast BT5 4BS.
Tel: Belfast 57424/5/6

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NEW

Gold-N

keeps grass lush
and green



The British Golf Greenkeeper

Grasscarpet

for a better sports turf

"Grasscarpet" is a new and major breakthrough in turf technology and the ideal product for the construction or the repair of all Sports Turf areas.

"Grasscarpet" is natural turf, grown to suit individual clients' requirements and ecological conditions for projects such as Golf Greens, Tees, Fairways, Bowling Greens, Football and Rugby Pitches, Cricket Squares and Outfields, Hockey Fields, Tennis Courts, and all other Sports and/or Recreation areas.

"Grasscarpet" is weed-free turf, grown from specially selected healthy persistent grasses without any artificial or chemical aids. After rolling out, it establishes rapidly without elaborate after-management.

"Grasscarpet" is grown, with approximately 1.25 cm of best soil, in strips 1 metre wide and up to 5 metres long.

"Grasscarpet" does not need boxing and will not shrink or crack. Simply roll out "Grasscarpet" on to any type of soil and it will be ready for use in a matter of weeks, the joins being virtually invisible.

Because of the specially incorporated stabilization net, "Grasscarpet" is drought resistant and hardwearing. This unique net also alleviates surface compaction, reduces waterlogging and inhibits the growth of weeds and other unwanted vegetation so often present in ordinary turf and seeded areas.

Appearance

"Grasscarpet" is grown from bred varieties and specially selected cultivars demonstrating a pronounced prostrate growth habit. This gives the dense, weed and disease free, "Grasscarpet" surface a uniform rich green colour and appearance.

Weight

1 square metre weighs 5.5 to 6.5 kgs. (12-14 lbs.), i.e. three times lighter than ordinary turf.

Dimensions

Soil ...	...	...	...	...
Width ...	...	...	...	...
Length ...	...	...	...	...

Approximately 1.25 cm.

1 metre

2-5 meters (as required)

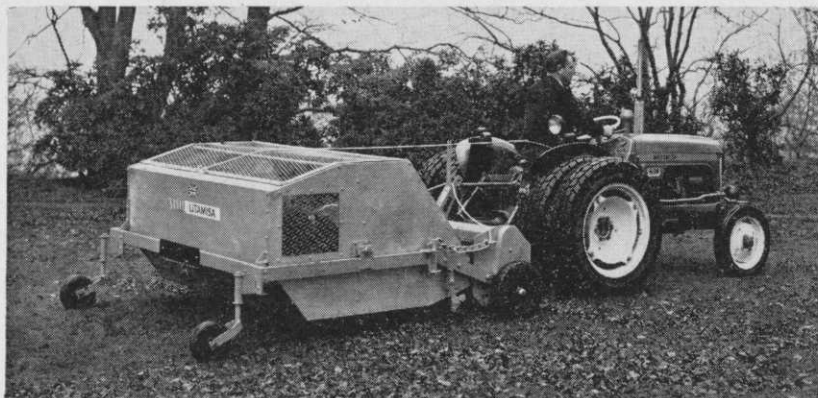


Note dense healthy fine grass sward.

Laying

No elaborate soil preparation is needed.

Simply roll out "Grasscarpet" onto firm fine tilled ground. If necessary, a light roll can be applied with a 3-5 cwt. roller. "Grasscarpet" does not need boxing and is easily cut to any shape or size with ordinary household-type scissors.



Phyllologists beware!



If you collect leaves take warning – don't leave too many lying around this autumn. We consider any collection of leaves not protected by the NSPCL as fair game for these SISIS machines. But you could beat us at our own game and use a SISIS machine yourselves for speed and economy. Whether you have a suitable tractor or not, we have a machine to solve your leaf collection problems now (and cope with general litter, grass cuttings etc. during the rest of the year).

DISPO-SWEEPER

This self propelled machine is 36ins. wide and pedestrian controlled, collecting material into vertically mounted disposable sacks which are easily removed when full and replaced in seconds.

LITAMISA

The 6ft. tractor mounted Litamisa has p.t.o. driven brushes and a larger capacity hopper. The tractor driver operates all controls, including emptying the hopper without leaving his seat.

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Macclesfield, Cheshire SK10 2LZ. telephone Macclesfield 26363 telex 669795**

After—Management

“Grasscarpet” can be mown and/or fertilized within 4-6 weeks of laying, but should not be cut below 1 inch until it has been established for at least 10 weeks. Because of the types

of grasses used and the unique method employed in growing “Grasscarpet”, the need for mowing and other managerial tasks, i.e. fertilization, irrigation and disease/weed control, is reduced considerably.

Progress comparison

Stage of Development	Time in Weeks (approximately)		
	“Grasscarpet”	Ordinary Turf	Seed
Root establishment	5	20	35
Ready to Use (Ryegrass Mixture)	10	28	55
Ready to Use (Non-Ryegrass Mixture)	30	55	80

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THE GRASS
GREENER**



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- Reliability and economy from the 8hp Kohler engine, giving maximum speed of 5½ mph
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- Reassuring stability from the 40in wheelbase and low centre of gravity of this lightweight 650lb machine
- Ideal for the larger open area sandtraps of the modern golf course
- Handy accessories include edging attachment for sandtrap edges and 6½' x 6' drag mat



For further details, get in touch with
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Sole distributor for TORO in U.K.
and Channel Islands.

Turfgrass Maintenance Fertilization

Continued from September

Ureaform compounds are synthetic materials made by the chemical union of urea and formaldehyde. Within a given ureaform material there is a series of chemical compounds with varying degrees of solubility and resistance to decomposition. As the soil bacteria decompose these materials, the more easily decomposed materials break down first, followed by each successive compound. Thus, a small amount of nitrogen is constantly being released over a relatively long period of time. This permits the user to apply heavy applications of these materials at rather infrequent intervals. *Care must be taken not to confuse urea (quickly available nitrogen) with ureaform (slowly available nitrogen).*

IBDU (isobutylidene diurea) is an example of a synthetic material that is dependent upon hydrolysis to release its nitrogen. IBDU has extremely low solubility in water. As it is relatively unaffected by temperature, it has the advantage of releasing nitrogen, provided adequate moisture is available, during periods of cool weather when microbial activity is limited. IBDU has also been shown to be more efficient (more of the nitrogen applied is recovered by the plant) than natural organic or ureaform nitrogen sources.

Recommended Fertilizer Programs

Again it must be emphasized that a soil test to determine fertilizer requirements provides the best guide for proper fertilization. When com-

plete soil tests are not used, one of the following recommendations should be followed. Recommendations are based on the use of a complete fertilizer having an approximate 2-1-1 ratio or a straight nitrogen carrying material and a fertilizer application rate of four to five pounds of nitrogen per 1000 square feet per season. These recommendations are for average soil conditions and must be supplemented with additional fertilizer where soils are extremely deficient in phosphorus and/or potash. Where Merion bluegrass predominates in a mixture, increase the rate of nitrogen application by one-half over the quantities listed in the following recommendations.

Proper liming is essential to a sound fertilization program. Lime should be applied in accordance with a soil test. Proper liming creates a favourable soil environment for plant growth and keeps plant nutrients available for plant use. Liming, therefore, provides the most efficient use of applied fertilizer materials.

Program I—Where the fertilizer used contains 35% or more of the total nitrogen as water insoluble nitrogen:

Apply in the spring 15 pounds of a 10-5-5 (1 1/2 pounds of nitrogen) or the equivalent per 1000 square feet.

Apply in the fall 25-30 pounds of a 10-5-5 (2 1/2 to 3 pounds of nitrogen) or the equivalent per 1000 square feet.

Program II—Where the fertilizer used contains 15-34% of the total nitrogen as water insoluble nitrogen:

Apply in the spring 10 pounds of a 10-5-5 (1 pound of nitrogen) or the equivalent per 1000 square feet.

Apply in mid to late August and *again* in late September to early October, 15 pounds of a 10-5-5 (1 1/2 pounds of nitrogen) or the equivalent per 1000 square feet.

Time for **TEXTURF**



...a fine product for fine turf!

Texturf cuts down time and labour by providing for immediate use a carefully blended and balanced winter dressing for golf and bowling greens, and fine lawns.

It incorporates superfine peat, wood charcoal, Leighton Buzzard special sand and Winterfeed Fertiliser.

You'll be delighted with the greatly improved grass growth and colour in the Spring.

Apply at 2 lbs. per square yard during the Autumn and Winter months.



TEXTURF

Packed in 1 cwt. heavy gauge polythene bags

Another super quality product from CANNOCK FERTILISERS LTD, CANNOCK, STAFFS WS11 3LW

Program III—Where the fertilizer used contains less than 15% of the total nitrogen as water insoluble nitrogen:

Apply in late April and *again* in late May to early June, 7 1/2 pounds of 10-5-5 (304 pounds of nitrogen) or the equivalent per 1000 square feet.

Apply in late August to early September and *again* in late September to early October 12 to 15 pounds of a 10-5-5 (1 1/5 to 1 1/2 pounds of nitrogen) or the equivalent per 1000 square feet.

Program IV—Where soil tests shows oils to be high in phosphorus and potassium, nitrogen alone may be applied:

Apply two applications per year in mid spring and mid to late August of 6 to 8 pounds of a ureaform compound (38-0-0) (2 1/4 to 3 pounds of nitrogen) per 1000 square feet.

or

Apply in late April and *again* in June, 20 pounds of a natural organic nitrogen material (5 to 7%) 1 pound of nitrogen) per 1000 square feet.

Apply in mid to late August 40 pounds (2 1/2 pounds of nitrogen) of the same material per 1000 square feet.

or

Apply two applications per year in mid spring and mid to late August of 7 to 9 pounds (2 to 2 3/4 pounds of nitrogen) of IBDU per 1000 square feet.

Precautions

All fertilizer may burn if improperly applied. Fertilizers containing high amounts of quickly available nitrogen will burn more severely than those containing slowly available nitrogen. Natural organic nitrogen materials, IBDU, and ureaform compounds applied alone have very little

tendency to burn. However, complete fertilizers containing slowly available nitrogen may burn because of the potash content.

Always apply fertilizers when the grass leaves are completely dry, and water thoroughly immediately after application.

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from mid 1975. Championship links, automatic sprinklers etc. 2nd small course in town. 8 staff. Peaceful and beautiful seaside location.

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NEWS

Elvin Pennants Ltd. exhibited their range of golf and other sports equipment at Motspur Park for the first time, many new items for golf and football were on show.

The 6 ft. and 8 ft. PVC flagpoles are now widely used in golf, football, and rugby, and indeed the Football Association, and Referees and Linesmens Associations have accepted the Elvin Pennants designs for equipment.

The ball washer (golf) is interesting as the greenkeepers can see the level of the water through the perspex front without leaving the tractor during their ground inspections.

The range of equipment includes:—golf green pitchforks, caddie jackets, timber and traffolite tee plaques, signs, pitch and putt equipment, golf score cards, identi-tags, bag labels, instant barriers.

They've done it again!



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for this
booklet
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Now May & Baker introduce their *NEW systemic turf fungicide* ('Mildothane'-Turf) for the prevention and control of disfiguring fungal diseases such as *Fusarium*, red thread and dollar spot.

Here is a turf fungicide which combines extremely effective systemic action with simplicity of preparation and ease of use.

The publication illustrated above gives full details of this new application of the already well-known 'Mildothane' formulation which can help you to maintain your fine turf in the finest condition.

M&B May & Baker

NEW systemic
turf fungicide

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Sand for Golf Courses

by The USGA Green Section Staff

An article together with a Table which shows how to assess a sand used on your Golf Course. Each year now brings further certainty into areas where previously guesswork, however experienced, was the only guide line.

Of all the materials necessary for the construction and maintenance of golf courses, sand—common sand—is among the most important. Great quantities are needed for bunkers and in topsoil mixtures both for the construction of greens and for later topdressing.

Sand is among the most abundant materials on earth, and it can be found in differing textures and colors, from the coarse white sand of coral atolls of the Pacific to the fine pink sand of Bermuda's beaches. Not every sand can be used for every purpose on golf courses, however. They must be defined and graded. Sands for topsoil mixtures have been precisely defined, while, surprisingly, sands for bunkers have not. More surprisingly, both are so close in particle size designation that they could be used interchangeably. Research at Texas A&M University and at Mississippi State University resulted in the USGA Green Section recommendation for sand particles sizes ranging ideally between 0.25 millimeter and 1.0 millimeter in topsoil mixture for greens.

Sand in this particle size range also is suitable for bunkers. Sands in the range will not remain on top of the grass, but will seep into the soil. Everyone has seen a spray of sand

lying on the green after an explosion shot from a bunker. Particles larger than one millimeter tend to remain on the putting surface, while sand particles in the recommended range permeate the turf and, therefore, cause no problems in mowing operations. Secondly, players will not have to remove pebbles from their line, and therefore, putting should take less time.

Sand for bunkers preferably should be light in color, or perhaps even white, but color is not so important in soil mixtures. The specifications table below is universally accepted by commercial sand firms throughout the nation. At present, anyone can go to a sand dealer and order as much brick, mason or concrete sand as he wants. Isn't it reasonable to expect, therefore, that sand companies should also add a golf sand to their stockpile, one that meets the specifications described herein?

The recommended range of sand particle size for bunkers best suits both requirements: that is, all sand should go through a 16-mesh screen and be retained on a 60 mesh screen. Ideally, the major portion of the sand, 75% at minimum, should be in the 0.25 to 0.50 millimeter range (medium sand). Silica sands are preferred round rather than angular, if available.

The information presented here is the best judgement of the entire USGA Green Section Staff after study of research available and practical findings as a result of the Turfgrass Service Program. It is edited and

(Continued on page 19.)

Severe Spring Drought puts Playing Surfaces under Heavy Pressure

TAKE TURF ACTION NOW!

Just how could you combat the effects of the long, dry period that we had this Spring - the effects on turf in some cases have been pretty disastrous.

Ransomes would like everyone to benefit from their experience and to help you make the best out of what you have.

Not only now, but the year through, on a management basis.

Let's tackle each of the major problems that can affect your turf so seriously:

1. Soil Structure

Good growth depends on the soil being in good physical condition, with plenty of space in the soil for air, water and fertilisers to get down to the grass roots. The big enemy of this ideal condition is compaction - pressure from any source, tractor or footfall, can effectively seal the surface to prevent the life-savers getting down to the roots.

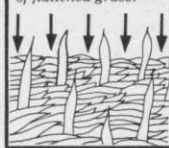
The farmer ploughs to cure this problem but the Golf Greenkeeper needs a less drastic remedy. Aerifying tools provide that solution. The *unique* action of Ransomes-Hahn Aerifying with specially designed 'spoons' ensures that the soil will be opened up and the soil structure maintained at its peak.

2. Thatch

Not all the grass blades stand up to be cut when you're mowing. And all mowers cut on a horizontal plane, so what happens to the blades that are lying flat on the ground? They form 'grain', uncut

blades that will remain flat until they die after about a month and become part of the 'thatch'. This thatch forms a roof over the soil that stops water and air penetrating, and, as it usually lays in one direction, it can have a very adverse effect on golf greens. And subsequently, on your putting! So how do we cope with this mattress of grass? Simple really, we just use a mower that cuts vertically instead of horizontally, the Ransomes-Hahn 'Verti-Cut'.

Air and water cannot penetrate 'mattress' of flattened grass.

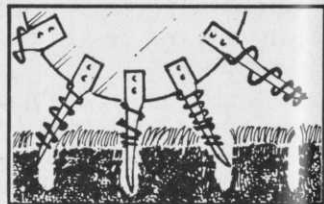


3. Top Dressing

It is the organic matter that we add - especially the organic material in the grass plant, that gives soils stability. The structure can, of course, be improved with materials like sand, humus and peat moss, depending on local conditions. This top dressing must be worked thoroughly into the surface. Surface thatch accumulation must be removed by Ransomes-Hahn

'Verticutting' before top dressing is attempted and then top dressing penetration to the soil below is effected by the Ransomes-Hahn 'Power Drag'.

Repeated Ransomes-Hahn Aerification with its unique cultivating



Packed soil now has room to expand into the scooped out holes. The root-zone is opened out to enable air, water and fertilizer to have the most benefit. Strong root formation is made more easily in the surrounding soil.

action is the best means of changing soil texture in the top 3 or 4 inches of the soil profile, allowing for the area to remain in use at all times. The action of the uniquely designed 'spoons' in removing cores of soil is the finest way of aerifying, and patented 'Flexi-spoon' springs fitted over each spoon prevent turf tearing.

RANSOMES SYSTEMS TO THE RESCUE

One of the prime defences against any sort of trouble is to know the enemy. Turf care is no exception. Weather can be very unpredictable. This year, a very dry Spring caused no end of problems, so we must make the best of the condition prevailing.

Ransomes knowledge of turf care goes a long way beyond mowing and their complete range of turf maintenance equipment is designed to ensure that your grass areas are as good as they possibly can be.

Cure compaction without stopping play

One of the major problems of fine turf care is how to keep it fine without holding up play—whether on golf greens, bowling greens.

The new Ransomes-Hahn 16" Vertifier is the ingenious solution. Here's how it's done. The top 1½" of soil is penetrated by ½" coring tines fitted with patented rubber flexi-pads which positively prevent turf tearing as the tines withdraw. The cores of compacted soil are then removed from the surface by using the collector.

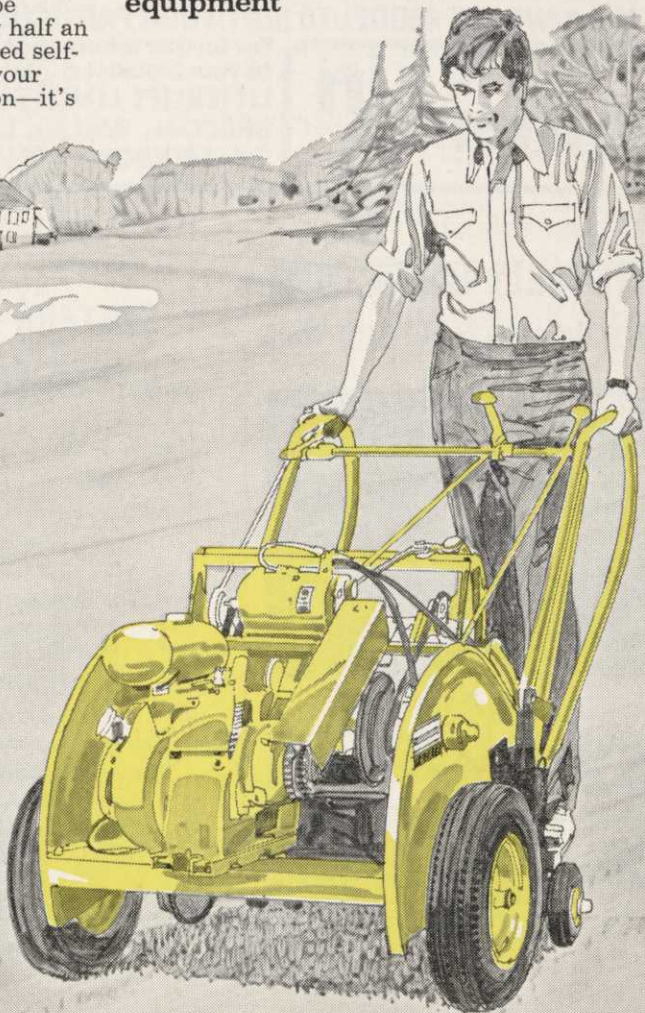
A 5000 sq. ft. green can be covered in approximately half an hour by this easily handled self-propelled machine. Ask your dealer for a demonstration—it's very convincing.

Hydraulic lifting device makes turning simple. Separate levers control engagement and dis-engagement of the drive to the tines and drive to transportation wheels. Depth adjustment down to 1½" without using tools. Simple design minimises maintenance. Core collector fitted as standard.

Ransomes Sims & Jefferies Ltd. Ipswich.

RANSOMES

Ransomes-Hahn 16" Vertifier
...and a complete range of turf improving equipment



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THEY REPLACE RAKING AND SWISHING ON GREENS AND FAIRWAYS. — 5 to 65h.p. Vacuums & Truck Loaders also available.



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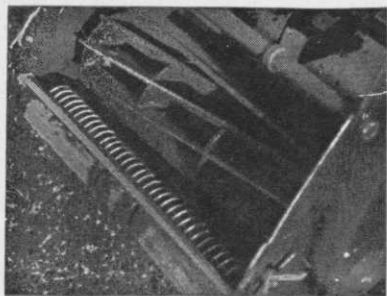
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reported by Alexander M. Radko, National Research Director. Staff members are William H. Bengueyfield, William G. Buchanan, Holman M. Griffin, James B. Moncrief, F. Lee Record, Carl Schwartzkopf, and Stanley J. Zontek.

SAND PARTICLES SIZE CLASSIFICATION TABLE

	Millimeter	Sieve Opening Inches	
	4.76	0.187	
	4.00	0.157	
	3.36	0.132	
	2.83	0.111	
	2.38	0.0937	
	2.00	0.0787	
	1.68	0.0661	
	1.41	0.0555	
	1.19	0.0469	
	1.00	0.0394	] COARSE
	.84	0.0331	
	.71	0.0278	
	.59	0.0234	
	.50	0.0197	] MEDIUM
	.42	0.0165	
	.35	0.0130	
	.30	0.0117	
	.25	0.0098	] FINE
	.21	0.0083	
	.18	0.0070	
	.15	0.0059	
	.13	0.0049]]
	.11	0.0041	
	.09	0.0035	
	.07	0.0029	
	.06	0.0025	
	.05	0.0021	
	.04	0.0017	

This article is reproduced from "The Golf Journal" a publication of the United States Golf Association.

Food for thought

Dan Maples has passed along the following information for your review:

1. President of the largest steel company.
2. President of the largest gas company.
3. President of the New York Stock Exchange.
4. Greatest Wheat Speculator.
5. Great Bear of Wall Street.
6. Head of the world's largest monopoly.
7. President of the Bank of International Settlement.

These certainly should be considered the world's most successful men. At least, they found the secret of making money. Now, some 50 years later, where are these men ?

1. The president of the largest steel company, Charles Schwab, died a pauper.
2. The president of the largest gas company, Howard Hopson, is now insane.
3. The president of the New York Stock Exchange, Richard Whitney, was released to die at home.
4. The greatest wheat speculator, Arthur Gooton, died abroad insolvent.
5. The greatest bear on Wall Street, Gesace Rivermore, died a suicide.
6. The head of the world's largest monopoly, Ivan Krueger, the Match King, died a suicide.
7. The president of the Bank of International Settlement shot himself.

The same year, 1923, the winner of the most important golf championships, Gene Sarazen, won the U.S. Open and the P.G.A. Tournament. Today, he is still playing an excellent game of golf and is solvent.

Conclusion: Stop worrying about business and go play golf.

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**Some Biographical Notes on
Charles G. Baskin, this year's
President The Golf Course
Superintendents Association of
America.**

Charles G. Baskin has been at the Waterbury Country Club, Inc. of Waterbury, Conn., since 1959. He stated as an assistant superintendent and was appointed golf course superintendent in 1962.

Mr. Baskin has a B.S. degree in civil engineering from the University of Missouri School of Mines and Metallurgy, where he also did graduate work in soils. He has attended the Turf Management and Landscape Design School at Rutgers University and completed a course on ecology and the environment at Yale University.

An honorary member of the Connecticut Section's Professional Golfers Association, Mr. Baskin serves on that group's advisory board.

He has been a member of the Golf Course Superintendents Association of America since 1961. He was first elected to GCSAA's Executive Committee in 1971 as a Director and was appointed Secretary-Treasurer in 1972. The following year he was elected Vice President, and on February 13, 1974, in Anaheim, Calif., he was elected to his current one-year term as Association President.

Active in community activities, Mr. Baskin is a church moderator and Sunday school teacher at the First Baptist Church of Waterbury and is frequently called upon as a guest speaker at numerous local civic organization meetings, discussing turf-grass science. He is currently serving as Vice Chairman of the Waterbury Charter Revision Commission and has been a member of the Board of Education.

Mr. Baskin and his wife, Molly, have two children and reside in Waterbury, Conn.

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The dropped right shoulder

Patrick Smartt

The fascination of golf is that you never know what will turn up next, on or off the course. A study of a group of golfers standing, rather than a cursory glance, will show that the right shoulder is perceptibly lower than the left.

That may come as a surprise to those disinterested in detail. It does not need a camera to prove this. A look round your fellow golfers will provide the answer. It is an occupational disfigurement—if that be not too strong a word. A partial cause is that the right hand is lower on the club grip than the left.

It is so too with the cricketer, but when he is striking, the ball is at least a foot above the ground. The golfer has to reach down and through. In playing his stroke the cricketer's feet alter their position. When he is going for a drive the left foot is advanced down the pitch, in a defensive stroke he steps back. All this must reduce the strain imposed on his spine. The golfer, who with his feet retaining the position as in the address, is twisting his back.

Some time ago, I watched that great batsman, Tom Graveney, demonstrating strokes on television. If one ignored foot action, there was a distinct similarity with golf. The more so if the viewer came from hickory days, when the hands were used to a greater extent. The timing was perfect, and at no time did the back have to twist, although in the hook or sweep his shoulders followed right

round. But, and this should be emphasised, they had not turned in the reverse direction as would a golfer's at the start.

It is not insignificant that in recent years, we hear quite often of tournament players complaining of bad backs. My impression is that we seldom hear of it where cricketers are concerned, though it might be expected from the speed bowlers.

That great, and highly intelligent golfer, Henry Cotton, has on more than one occasion stated that he wished he had done corrective exercises, in his youthful, hard practising days. He has not mentioned a damaged ligament of the spine, but he has the rounded shoulders prevalent with many golfers. Whatever he says has to be listened to, and so far as I am concerned, accepted.

In the middle and late 1920s, when the immortal Bobby Jones was at his summit, a doctor after watching his full swing, remarked that no spine could stand up to that torsion for long. And so, alas, it was to be. His latter years were spent in a wheel chair, because a spinal ailment induced a form of creeping paralysis. A terrible end to a magnificent career.

It is worthy of note that Jones had a more pronounced hip turn than the modern player. Pivot, it was called, referring to the hips and not the shoulders. It is seldom heard today, for the shoulder turn of the 'name' players is fuller than that of the hips. On my old principle of testing the

validity of statements, I have stood up and turned the shoulders without any hip movement, followed by shoulders and hip pivot.

Experiment is ever useful, it produces an effect expected or unexpected. The result revealed something. It was a test on a dicky spine, which called a halt to golf a long time ago, though not caused by it. The first, with shoulders only, caused no discomfort. When there was a pivot, there was a protest at the base of the spine.

Why, as a layman, that should be, must be left to the medical profession. It has to be taken into account that the modern player, with steel shafts, hits harder than his predecessors. He is in tournament contention many more times than those of an earlier era.

Perhaps as one grows older, and the shoulders incline to stoop, this deformity is more apparent. Some twelve years ago, my daughter was getting married. Father visited a small country town—his last visit to London, but no longer the London he knew was in 1959—where a man's shop was agent for a well known clothiers in London. Climbing into the morning coat on the special day, the right shoulder felt different to the other. It had been slightly padded to make it level with the left. A remarkable piece of observation on the part of the agent.

The whole, thinking of that dropped right shoulder, of which most golfers are unaware, and not all have it, begs the question do spines permanently out of true, lead to trouble in the end?

One wonders whether Sherlock Holmes walking in the street with his usual companion, on seeing one of our subjects, would have had the percipience to notice, and remark: "That man plays golf, my dear Watson."

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To play - or not to play?

Alexander Radko of the USGA's Green Section has advanced an extraordinary theory designed to solve one of golf's eternal problems: "When is a course playable and when is it not?"

Radko—together with colleagues Stanley Zontek and William Buchanan—has put forth the idea of a "course within a course" in a recent article written for the USGA's *Golf Journal*. The subject came about as a reaction to the ever increasing demands of the player to enjoy golf in the winter months on northern courses. For years the superintendent has been faced with the testy situation of allowing play on regular tees and greens at a time on the calendar conducive to enticing turf damage. Now, Radko thinks he has the answer.

The course would incorporate all the less susceptible parts of the golf layout into an inner course which could be used for golfers who don't mind the restrictive elements of winter weather and who just want a playground where their games can be kept in shape. Naturally, the course would be shorter than the regulation spread, but Radko offers a few tricks in placement of greens which would give the player almost as strong a test as the one he faces in summer.

The inside track takes all the worry out of using regular tees and greens. They are divorced from the design and are saved the pain of absorbing those beefy footsteps that often lead to extensive damage which shows up in the customary months of play. There is nothing so deceiving as a green which is coated with a layer of dripping frost. While it may appear play

on it is harmless, the eventualities of future damage far outweigh the pleasures found in using it out of season.

The all-weather course would take much of the soul-searching out of the superintendent's annual tug o' war with members . . . when to allow them to play the full course. This problem has been the source of much debate and often unfair harassment of the superintendent. The inside track is a means to elimination of both.

Radko also proposes that the inside track become a permanent part of the layout. He contends that the winter golf allowance could be carried over the summer at breaks in the weather when excessive rainfall or other natural semi-catastrophes place a questionmark on the advisability of using the regular course.

"Why not use the short course on a year-round basis," Radko asks. "During adverse weather of any season it would take all the arguments out of the picture. There would be no decisions to be made by management. At the sign of conditions which might lead to turf damage, the shorter course could be set up and the regular course closed to play."

Although he might have overlooked it, Radko fails to note one little fly buzzing around this ointment: What about the decision laid to the superintendent as to whether or not conditions call for use of the short or inside course? After all, just as there are members who believe the golf course is theirs to play and command; there will surface some flak when it comes time to decide whether the regular or short course is to be opened on a given day.

Then, too, the design of an inside track places another burden on "guess who?" In effect, it presents the superintendent with two courses to condition . . . although the short course is not supposed to be the epitome of top-conditioned layouts. It does pose a labor problem because its greens and tees will have to be kept in playing condition at all times so as to be ready when the rains or snow come.

On the whole, however, the idea deserves further study by the country club administration. Its detail would have to be ironed out and plans made so as not to increase the superintendent's pressures. It's worth a look-see all right.

Gerry Finn

With grateful acknowledgement to the "Newsletter" of the GOLF COURSE SUPERINTENDENTS ASSOCIATION OF NEW ENGLAND, USA.

NEWS

Problems arising from the scarcity and high cost of labour and the relative immobility of expensive specialised machinery have been discussed at a Conference organised by the National Association of Agricultural Contractors. Participants were the manufacturers of land drainage pipes, specialised machinery manufacturers and drainage contractors. All agreed on the need for more rapid adoption of mechanical handling methods.

Problems faced by contractors—in particular, unnecessarily high costs entailed by existing methods—were explained by Mr. Dick Hughes, Chairman of the National Land Drainage Contractors' Committee, and its immediate past Chairman Mr. Paul Wiles.

Systems already in use involving packaged pipes were described by

various manufacturers; machinery manufacturers indicated where certain equipment limitations exist.

Mr. Brian Trafford, Ministry of Agriculture, set out the broad guidelines within which any future developments in pipe specifications that may be considered desirable must lie. He described an experimental new type, now under investigation, which may be easier to handle.

Although no revolutionary new system is at the moment in sight, the contractors strongly urged the advantages of packaging pipes in a convenient module which can be easily divided for handling by machines ranging from the smallest to the largest.

The Conference agreed that, whilst each contractor must evolve his own on-site handling system according to conditions, the suggested module must provide the flexibility to make this possible.

"Job Well Done"

Many of our readers will have played on the splendid golf course of Ashridge, Little Gaddesden, Berkhamsted, Herts., and may therefore be interested to learn that Mr. Jack Wayman has recently retired after 42 years of service on the Green staff.

Mr. Wayman was involved in the construction of the course at Ashridge from 1928, became a member of the staff in 1932, and Head Greenkeeper in 1967. He has worked harmoniously with his successor, Mr. Bob Goodwin, who is Hon. Secretary of our Midland Section, who will no doubt, benefit from the extensive local knowledge acquired by Mr. Wayman over 46 years.

For his loyalty and capability, Mr. Wayman has received due appreciation from both the Club and his staff colleagues, and he is provided with a comfortable pension from the Club he has served so well.

We wish him a long and happy retirement.



Special Occasions

- Oct. 9 Southern Section Secretaries' Match—Stoke Poges G.C.
- 10 North-West Section Autumn Tournament—Priestbury G.C.
- 16 Southern Section 1st Winter Lecture—Whitbread's Social and Sports Club, Chiswell Street, London. EC1Y 4SD.
- 28 South Coast Section (Mon) Autumn Tournament—Parkstone G.C.
- Nov. 5 South Coast Section 1st Winter Lecture—Alresford G.C. Time 7 p.m. Talk arranged T. Parker & Co. Topic: "Sis Equipment".
- 6 Southern Section Lecture — Whitbread's Social Club. Time 6.30 p.m.
- Nov. 18 North-West Section 1st Winter Lecture—Swinton Park G.C. Time 7.30 p.m.
G. Vaughan, Ransomes, Sims & Jefferies.

- Dec. 4 Southern Section Lecture — Whitbread's Social Club. Time: 6.30 p.m.
- Dec. 9 North-West Section Lecture: H. Pattison & Co.—Swinton Park G.C. Time 7.30 p.m.

East Midland Section

Chairman:
B. MOTT

Hon. Secretary:
S. FRETTER, ESQ.,
4 Queens Drive,
Leicester Forest East,
Leicester.

Annual General Meeting

The Annual General Meeting was held at The Three Nuns Hotel, Loughborough on Wednesday 7th August 1974. The following were elected—President Mr. R. Bailey, Chairman Mr. B. Mott, Vice Chairman Mr. I. Toon, Secretary Mr. S. Fretter, Treasurer Mr. P. McCarron. Committee—Mr. G. Arnold, Mr. R. Spurr, Mr. A. Thornton, Mr. M. Lake, Mr. W. Cole, Mr. R. Willars, Mr. G. Darby. Section representative, Mr. P. McCarron, Mr. A. Thornton is retiring as Hon. Treasurer in October, this is due to personal reasons.
(signed) S. FRETTER
Hon. Sec.

North-East Section

Chairman:
J. G. SIMPSON
'Phone Gosforth
55214

Hon. Secretary:
G. JEFFERIES
55 Brackenfield Road,
Framwell Gate Moor,
Durham.

A.G.M.

The Annual General Meeting was held on Thursday 25th July at The Bridge Hotel, Newcastle. The Chairman opened the meeting and thanked the Committee and Members for their support during the past year. The Minutes of the last A.G.M. were read

and passed, and a report of the past year was given by the Secretary and Treasurer and was considered satisfactory.

Officers elected for the coming year are as follows:—President, C. N. Storey, Vice-Presidents returned en bloc. Chairman J. Simpson, Vice-Chairman N. Fraser, Secretary and Treasurer, G. Jefferies. Committee—Messrs. T. Robson, T. Nutman, D. Holmes, T. Oliver, D. McNeal, J. Grainger, W. Bewick, M. Runnacles.

The Chairman on behalf of the Committee thanked our Auditors for their work with the accounts, and hoped that they, Messrs. Chapman, Hilton, Hutchinson and Dunford, would continue to keep our financial affairs in order.

New Members

We welcome to the Section the following new members:—

W. BEWICK of Whitburn Golf Club, G. MARSHALL of Seahouses Golf Club, A. J. REAID of Prudhoe Golf Club, and T. G. AITCHISON and F. T. MOUNT both of Bamburgh Golf Club, and hope their association with us will be a happy one.

(signed) G. Jefferies,
Hon. Sec. & Treasurer.

South Coast Section

Chairman:
MR. E. R. JAMES

Hon. Secretary:
(MRS.) N. M. STIMSON
Nth. Wilts. G.C.
Devizes.

Members' attention is drawn to the fact that the first of the five talks comprising the 1974 Programme of Lectures will be held at ALRESFORD Golf Club on Tuesday, 5th November, 1974 at 7. p.m. All Members are cordially invited to bring a guest with them—the more the merrier. The Topic will be "Sis

Equipment" and the talk has been arranged by T. Parker and Sons (Turf Management) Ltd.

We welcome to the Section the following Members and hope their association with us will be a long and happy one.

R. I. Parr, L. M. Dennis and C. R. Huxford of Lyme Regis Golf Club.

Hon. Members:—

B. D. Pierson of Landscape Maintenance Ltd.

A. Stow of Synchemicals Ltd., and
J. H. Fry of Fry's of Gosport.

H. M. Stenson,
Secretary.

Midland Section

Chairman:
V. SMITH

Hon. Secretary:
A. KITE
5 Lillington Close,
Sutton Coldfield,
West Midlands.
Tel: 021.355.5439

The Annual match between the Greenkeepers and The Midland Secretaries took place at Walsall Golf Club on Thursday 8th August '74.

Results:

GREENKEEPERS

G. Woodward	)	2/1
G. Hart)	
V. Smith	)	Lost
R. Smith)	
C. Frost	)	1 Up
A. Boraston)	
A. Jamieson	)	3/4
E. Thomas)	
A. Kite	)	Lost
J. Bevan)	
D. Haines)	

FINAL RESULT

4

MIDLAND SECRETARIES

B. Matthew)	
N. H. Russell	)	Lost
S. Allen)	
R. J. Parsons	)	1 Up
P. V. Hope)	
G. Green	)	Lost
G. A. Greetham)	
V. J. Morgan	)	Lost
G. Price)	
F. B. Lock	)	3/1
G. Dring	)	Lost
		<hr/>
		2
		<hr/>

I would like to thank Walsall Golf Club for the use of their fine, well-maintained Course and Clubhouse and also to Mr. N. H. Russell for arranging this pleasant and popular fixture.

Signed: A. KITE, Hon Sec.

Southern Section

Chairman:
F. W. FORD
(South Herts)

Hon. Secretary:
F. W. FORD, ESQ.,
68 Salcombe Gardens,
Mill Hill, NW7
Tel: 959 2847

Revised Handicaps 1st August 1974

AINSWORTH. P	6	NESS. J	12
BATTAMS. S	20	NEWMAN. J	7
BROWN. H	8	OWEN. M. C.	5
CAVANAGH. W	3	PLAIN. R. H.	7
COLLIS. A	12	PIGGOTT. B	13
COVEY. A	9	PIGGOTT. D	24
CUTLER. D	23	RYAN. C.E.	18
COOPER. K	18	SMITH. J. P.	5
DULAKE. F	11	TAYLOR. S. T.	8
FINNIE. A	7	WILKINSON. W	7
FOSTER. T	22		
FILLARY. P	24	ANDERSON. D	10
GOULD. E. R.	18	BISHOP. J	12
HAYTER. F	9	BROWN. G	6
HUDSON. D	24	CLAYDON. R. E.	10
JONES. D	10	CORNER. F. W.	8
JOHNSON. D. C.	7	CREESE. A. E.	12
KINGSON. W	17	CHUDASCH. R	24
LIDDINGTON. J	18	CHAPPEL. A. P.	14
MOORE. P. G.	22	EASTWOOD. K	2
MORTON. S	19	FORD. F. W.	15
MONK. J	24	FORD. S	24
MASTON. C	16	GLASS. J. K.	11
MARTIN. A. J.	20	GADD. A	18

HITCHCOCK. G	13	ASHTON. H	14
HILL. A. E.	17	BOWEN. J	13
JOHNSON. E.W.	16	BOWEY H.	5
KIRKPATRICK. J	3	CLAYDON. M	11
KILBY. S	6	COYTE. L	10
MAJOR. D	6	CRYER. J. E.	22
MACHIN. W. F.	9	CRAWFORD. D. J.	14
MANNING. D	24	COWEN. J. M.	6
MASKELL. H	16	FOLKES. E. W.	11
MARTIN. G. S.	20	FORDHAM. B. E.	8
McMILLIAM. J	14	FITZJOHN. P	8
NOAKES. J	8	GOULD. D. S.	16
NEWCOMBE. B	12	HALL. E	10
PAYNE. B	5	HUGGETT. I	19
PRICE. T. E.	15	HARGREAVES. R	9
PIGGOTT. G.	12	JOHNSON. R	10
RENNIE. S	13	KIRKPATRICK. D	13
ROBERTSON. B	10	LANCE. R	4
SIVESS. J	18	MOORE. C. A.	15
TEMPEST. R	3	MILLAR. A. R.	1
WATSON. A. E.	10	MITCHELL. C	16
MORTON. A	11	PIGGOTT. P	18
MASON. T	19	PALMER. A. K.	6
McLEISH. G	20	RICHARDSON. B	18
NEVILLE. D. G.	9	STAINES. P	10
OSGOOD. C. P.	4	STEGGALLS. A	20
PAYNE. G. S.	8	WHITEHEAD. P	14
		WILKINS. I. F.	12

Notification of any lower handicaps than those above and any queries must be made to Derek Gould, Telephone 01.650.1663.

New Members

A warm welcome to the following new members whose names are listed below:—

K. DALY (Hollingsbury Park), N. R. CRANE & G. N. MILLICHAP (Langley Park), J. M. TER (Alderney), A. BRABTER (Gatton Manor), R. McALLISTER (Alderney), A. BRABSHAW (Chadwell Springs), BAKER, A. J. (Dereham) and G. R. POOLEY & J. WONFOR Class E. (Members of the Trade),

Signed: F. W. Ford,
Hon. Secretary.

Section News

North-West Section

Chairman:
E. WALSH

Hon. Secretary:
H. M. WALSH
34 Kingsfold Close,
Brightmet, Bolton, Lancs.

Change of Address:

Will all members please note my address:—

H. M. Walsh, Hon. Secretary,
N.W. Section B.G.G.A., 34,
Kingsfold Close, Brightmet,
Bolton, Lancs.

Lectures

The complete list of dates and speakers for this winters' series of talks and films as follows; the venue as last year, Swinton Park Golf Club, East Lancs Road, Swinton, M/C.

Monday November 18th—G. Vaughan, Ransomes, Sims & Jefferies.

Monday December 9th—P. Wyatt. H. Pattison & Co.

Monday January 20th 1975—K. Vertigan, Sisis Ltd.

Monday February—E. J. Parker. S.A.I. Horticulture Ltd.

Monday March 3rd—F. E. Boyd. Twyford Seeds Ltd.

All these talks and films commence 7.30 p.m. May we please have as good an attendance as last year. November 18th is the first—G. Vaughan, Esq.

Postage

Owing to the large increase in the cost of postage, would members when writing and requiring an answer, please enclose a stamped addressed envelope if possible. This would be greatly appreciated.

Subscriptions

Our Treasurer informs me that a number of subscriptions are still outstanding. Would members please note and rectify.

New Members

We welcome to the Section the following new members and hope their association with us will be a happy one:—

J. FORD Royal Lytham & St. Annes G.C. T. KNOWLES Royal Lytham & St. Annes G.C. T. WHIPP Rochdale G.C. Rochdale, Lancs. T. JOWETT Oldham G.C. Oldham, Lancs. J. BRENNAN Hale G.C. Hale, Cheshire. R. P. FLETCHER Caldoy G.C. Wirral, Cheshire.

Welsh Section

Chairman:
J. MARTIN

Hon. Secretary:
D. C. OLIVER
'Lynwood'
Llynypia, Rhondda,
Tel: Tonymandy 2767

Our Autumn meeting was held at Pennard Golf Club and the prize-winners are listed below:—

Best Gross

Best Nett

1st D. CHEETHAM 109 Nett.
1st sweep 80p. Prize—Vase.

2nd J. MARTIN 109 Nett. 2nd
sweep 50p. Prize — Fruit
Dishes.

3rd A. PRICE 11½ Nett. Prize—
Pair of Towels.

4th D. JONES 112 Nett. Prize—
Golf Trousers presented by
Pennard G.C.

24 Handicap

1st J. BORJA 105 Nett 1st
sweep 50p. Prize—Steel Dish.

2nd G. PORTER 126 Nett.
Prize—Small Steel Dish.



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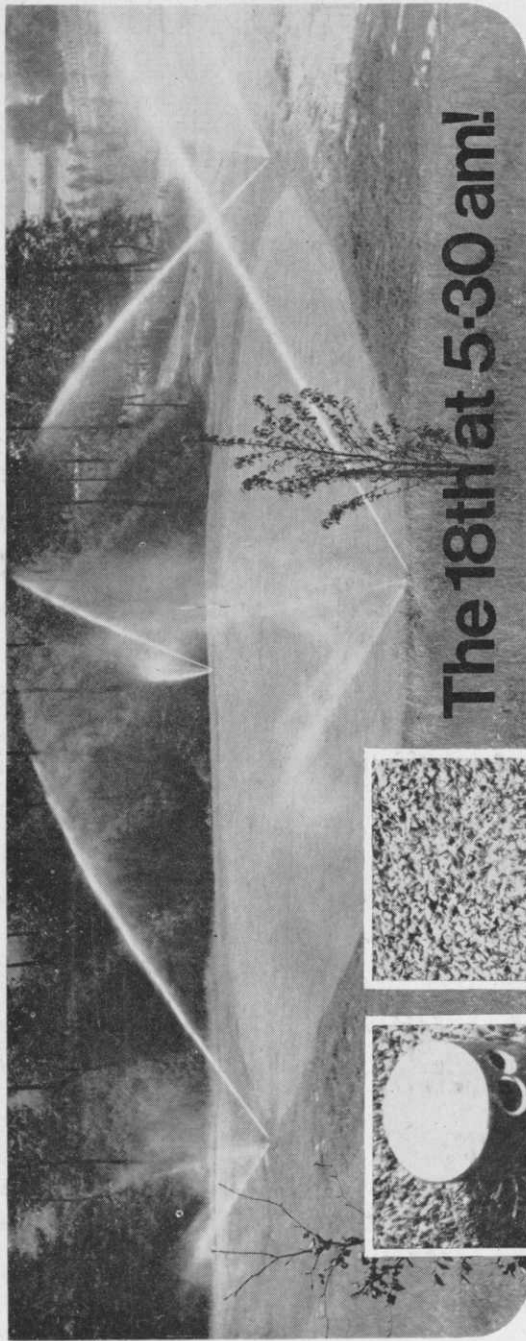
✓LOW CUTTING HEIGHT TOLERANCE

✓WEAR TOLERANCE

✓RAPID ESTABLISHMENT

✓CERTIFIED SEED QUALITY

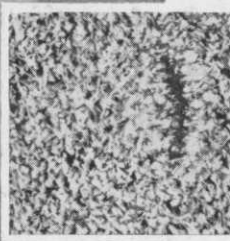
✓BRITISH TESTED



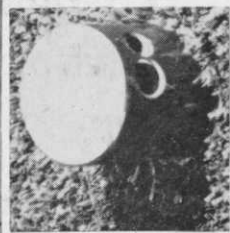
The 18th at 5-30 am!

(It could be St. Andrews, Troon, Sunningdale or your club...)

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