THE VERTIRAKES

P.V.R. (Pedestrian Vertirake)
- for Golf greens, Bowling greens, Cricket pitches and Tennis courts.

J.V.R. (Junior Vertirake)
- for Golf course greens, Bowling turf, Fine lawns etc.

T.V.R. (Tractor Vertirake)
- for Golf course fairways, Municipal Parks, Sports pitches.

These three machines have been designed to remove all the thatch, thus stimulating recovery and growth of strong healthy grasses. You will find that each machine will clear the difficult, dead, matted, fibrous grass that is so often so difficult to get rid of.

We have a machine for every purpose from the small golf green to the largest Municipal playing fields. One great labour saving device we have fitted on our P.V.R. model is the very large glass fibre collecting box which saves an enormous amount of time and energy that would otherwise be wasted in sweeping up afterwards.

Start your New Year off well by writing for full information on VERTIRAKES to:

H. PATTISSON & CO. LTD.,
STANMORE HILL WORKS, STANMORE, MIDDLESEX.
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Front Cover Picture

*Dorman Introduce New Range of Trailed/Skid-Mounted/Trolley, Engine-Driven Sprayer Units.*

Top Left: 44-gallon trailed Dorman Sprayer unit with twin 100 ft hose reels—one in use with 7 ft 6 inch cover, hand-lance spray boom.

Top Right: 44-gallon trailed Dorman Sprayer unit with 18 ft cover, spray boom.

Bottom Left: 110-gallon trailed Dorman Sprayer unit with fixed road-speed axle, fitted with 10 ft 6 inch cover, spray boom—here in use for de-icing operations.

Bottom Right: 88-gallon skid-mounted Dorman Sprayer unit mounted onto Haflinger platform, fitted with 30 ft cover, swan-nozzle (instead of a conventional spray boom) for rough ground operations.
The latest automatic grinders

The most up-to-the-minute machinery

The most experienced craftsmen repairers

The nation's finest mower repair department


Large spares stockholding

Main distributors for M.A.G. and ASPERA

T. PARKER & SONS (Turf Management) LTD

Worcester Park, Surrey KT4 7NF
Tel: 01–337 7791 — 01–337 0861 (10 lines)

The independent family firm with the personal service
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 “Tar 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 Agustus. 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.
Keep turf at its best - all season

with a single feed from new Gold-N

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!

Constant Quality
This steady supply maintains turf at its best. Keeps it thick and green. There isn’t the intermittent “too lush, too little” effect of more soluble fertilizers. And because Gold-N resists leaching in wet weather, grass vigour is maintained even on free-draining soils, golf courses, public open spaces and reclaimed derelict sites.

It’s Consistent
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:
England & Wales – Chipman Chemical Co., Horsham, Sussex EH6 7EN. Tel: Horsham 60341
Scotland – SAI Horticulture Ltd., Hortus House, 3 John’s Place, Edinburgh. Tel: 031 554 5451/6
N. Ireland – Richarsons (Ulster) Ltd., 1 Short Strand, Belfast BT5 4BS. Tel: Belfast 57424/5/6
Eire – ICI (Ireland) Ltd., 5/9 South Frederick Street, Dublin 2. Tel: Dublin 771831

32 N
GOLD-N
56lbs Gross

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
<table>
<thead>
<tr>
<th>Soil</th>
<th>Width</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.25 cm.</td>
<td>1 metre</td>
<td>2-5 meters</td>
</tr>
</tbody>
</table>

Note dense healthy fine grass sward.

Laying
No elaborate soil preparation is needed.

Simply roll out "Grasscarpet" onto firm fine tilthed 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.

Write for further details and an illustrated brochure to

sisis

SISIS EQUIPMENT (Macclesfield) LIMITED, Shoresclough Works, Hulley Road, 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**

<table>
<thead>
<tr>
<th>Stage of Development</th>
<th>&quot;Grasscarpet&quot;</th>
<th>Ordinary Turf</th>
<th>Seed</th>
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</thead>
<tbody>
<tr>
<td>Root establishment</td>
<td>5</td>
<td>20</td>
<td>35</td>
</tr>
<tr>
<td>Ready to Use (Ryegrass Mixture)</td>
<td>10</td>
<td>28</td>
<td>55</td>
</tr>
<tr>
<td>Ready to Use (Non-Ryegrass Mixture)</td>
<td>30</td>
<td>55</td>
<td>80</td>
</tr>
</tbody>
</table>

**KEEP THE GRASS GREENER**

**with FARROW IRRIGATION**

- Automatic and Manual Control Systems
- Pop-Up Sprinklers
- Portable Sprinklers
- Self-Traveling Units
- Tanks-Pumps-Pipelines

All available from Farrow

*featuring BUCKNER—THE POP-UP THAT'S MADE STRONGER TO LAST LONGER*

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(A Tate & Lyle Company)

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October
MAKE MORE OF MANPOWER

Another FIRST from TORO

Toro Sandpro
First ever mechanical sand rake in U.K.

- Time-saving 68" width for single-handed raking of fifteen large-area sandtraps to tournament standard in one hour
- Reliability and economy from the 8hp Kohler engine, giving maximum speed of 5 1/2 mph
- Full area coverage with infinite manoeuvrability from the zero-radius turning
- Superb traction with no compaction from the special low-pressure tyres
- Cost-cutting raking efficiency from the crust-breaking forward blade, four independent conditioning sections and nine finishing sections adjustable for depth of penetration
- 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 6 1/2' x 6' drag mat

For further details, get in touch with TORO (U.K.) SALES & SERVICE a division of Flymo Ltd. Greycaine Road, Watford, Herts, WD2 4PT. (Watford 41301) 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 complete 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.

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

The British Golf Greenkeeper
**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.*

---

**HEAD GREENKEEPER**

for

PORTSTEWART GOLF CLUB

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

Basic 5 day week, 4 weeks holiday and overtime. Generous salary negotiable.

Send FULL details to:
The Secretary/Manager
Portstewart Golf Club
Strand Road
Portstewart
Co. Derry, N. Ireland.

---

**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.
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.

To: May & Baker Ltd
Dagenham Essex RM10 7XS.
Please send me your publication
NEW Systemic Turf Fungicide
(Mildothane-Turf)

Name
Address

'Mildothane' is a trade mark of the manufacturer

The British Golf Greenkeeper
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 guideline.

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’.

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 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-press’ 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 1¾" 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
THE MODERN, RAPID AND THOROUGH WAY TO CLEAR THATCH, LEAVES, BLOSSOM, BEECH MAST AND DEW - BLOWERS
THEY REPLACE RAKING AND SWISHING ON GREENS AND FAIRWAYS. - 5 to 65h.p. Vacuums & Truck Loaders also available.
WE HAVE THE MODEL TO SUIT YOUR PARTICULAR NEED!
For further information and address of your stockist contact:
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Tel: TALYBONT-ON-USK 650

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FOR THE MAN WHO TAKES PRIDE IN HIS TURF

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STEWARTS OF EDINBURGH
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EASTERN CULTIVATED TURF FARMS LTD.
Wholesale British Growers
Grower of A-34 Kentucky
Cultivated Blue Grass.
Turf.

KENTUCKY BLUE GRASS
* Consistent quality
* Quick recovery after injury
* Ideal for Golf Tees
* Competitive price

Cranley Nursery, Cranley Gardens, London N10 3AR
Telephone: 01-883-5880
reported by Alexander M. Radko, National Research Director. Staff members are William H. Bengeyfield, William G. Buchanan, Holman M. Griffin, James B. Moncrief, F. Lee Record, Carl Schwartzkopf, and Stanley J. Zontek.

SAND PARTICLES SIZE CLASSIFICATION TABLE

<table>
<thead>
<tr>
<th>Millimeter</th>
<th>Sieve Opening</th>
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<tbody>
<tr>
<td>4.76</td>
<td>0.187</td>
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<tr>
<td>4.00</td>
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<tr>
<td>0.04</td>
<td>0.0017</td>
</tr>
</tbody>
</table>

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.
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.

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.
Situations Vacant

PETER ALLISS DAVE THOMAS LEISURE MANAGEMENT

require an outstanding
HEAD GREENKEEPER

to take over full maintenance control of a new 18-hole course at La Baule, Brittany, France. Applicants should have experience or full knowledge of management of Pencross Greens, be familiar with modern golf course management techniques and machinery and have experience of automatic irrigation systems.

This is an exciting opportunity to groom and manage a new modern golf complex within a first class hotel leisure group.

Salary negotiable. Housing will be provided.

Apply in strict confidence giving all personal and professional details, to
Patrick Dawson,
Alliss, Thomas Leisure Management,
Golf House, Wood Street, Stratford on Avon.

Department of Recreation

Head Greenkeeper

Salary up to £1,929 per annum (under review). Plus £10.44 per month “Threshold” payment.

To be responsible to the Manager of Recreation for the maintenance of a 9 hole golf course, currently under construction at Fulwell Park, which will be ready for play in Spring 1975, when a golf professional will be appointed.

Applicants should be experienced, suitably qualified and able to supervise and control a small team of ground staff.

★ Up to £48 per week average, with overtime—
★ Permanent pensionable position—
★ 18 days annual leave—
★ Additional day’s leave at Christmas and Spring Bank Holiday—
★ Sickness pay scheme.

Form from the Manager of Recreation, Langholm Lodge, 146, Petersham Road, Richmond, Surrey (01-940-8351) returnable by 18 October, 1974.

London Borough of
RICHMOND UPON THAMES
NOTTS. GOLF CLUB LTD.
HOLLINWELL

requires immediately experienced full time HEAD GREENKEEPER for 18 hole CHAMPIONSHIP Course. Automatic irrigation, modern machinery Staff 5.

Salary in region of £3,000 plus modern accommodation rent and rates free.

Apply:
Secretary,
Notts. Golf Club,
Hollinwell,
Kirkby in Ashfield,
Notts.
Tel. Mansfield 753225.

COURSE MANAGER/ GREEN KEEPER

FOR
A 6,500 yards PARKLAND COURSE IN BELFAST SUBURB.

A RENT FREE BUNGALOW IS AVAILABLE.

COMMENCING SALARY AROUND £2,500.

Apply, stating experience and qualifications, to Box No. 123.

SECOND GREENKEEPER
required by
ROYAL WIMBLEDON GOLF CLUB

with prospect of succeeding Head Greenkeeper in four years time. Good salary and rent free three-bed-

room house on the Course. Apply with details of experience to:
Secretary, R.W.G.C., 29 Camp Road,
SW19 (Tel. 946 2125).

HEAD GREENKEEPER

Required at a Parkland Course in East Shropshire. Convenient for motorway, between Shrewsbury and Wolverhampton.

ACCOMMODATION AVAILABLE WAGES TO BE NEGOTIATED

Apply in writing with details of past experience to:
The Secretary/Manager
Shifnal Golf Club
Decker Hill
Shifnal
Shropshire TF11 8QL

HIGHGATE GOLF CLUB

Experienced full-time Greenkeeper required to take over in the near future from retiring Head Greenkeeper. Club equipped with modern machinery and automatic irrigation system. Top salary and free accommodation in recently completed modern bungalow. Club situated in beautiful surroundings within 5 miles of centre of London.

Apply Secretary:
Highgate Golf Club,
Denewood Road, London, N.6.
Telephones 340 3745 (Secretary), or 340 1906.
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 turfgrass 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.
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 wheelchair, 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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Tel. Alresford 3222

ATTERTON & ELLIS LTD
Dent. B.G.G. Iron Works, Haverhill,
Suffolk. Tel: Haverhill 2312/3.
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

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<thead>
<tr>
<th>Oct. 9</th>
<th>Southern Section Secretaries' Match—Stoke Poges G.C.</th>
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<tr>
<td>Oct. 10</td>
<td>North-West Section Autumn Tournament—Priestbury G.C.</td>
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<td>Oct. 16</td>
<td>Southern Section 1st Winter Lecture—Whitbreads Social and Sports Club, Chiswell Street, London. EC1Y 4SD.</td>
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<tr>
<td>Nov. 28</td>
<td>South Coast Section (Mon) Autumn Tournament—Parkstone G.C.</td>
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<tr>
<th>Nov. 5</th>
<th>South Coast Section 1st Winter Lecture—Alresford G.C. Time 7 p.m. Talk arranged T. Parker &amp; Co. Topic: “Sisis Equipment”.</th>
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<tr>
<td>Nov. 6</td>
<td>Southern Section Lecture — Whitbreads Social Club. Time 6.30 p.m.</td>
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<tr>
<td>Nov. 18</td>
<td>North-West Section 1st Winter Lecture—Swinton Park G.C. Time 7.30 p.m. G. Vaughan, Ransomes, Sims &amp; Jefferies.</td>
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### 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  
**Hon. Secretary:** G. JEFFERIES  
Phone Gosforth 55214 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 Seashouses 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 “Sisis 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.


*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. Stemson, 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

The British Golf Greenkeeper
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

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<th>Name</th>
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<td>OSGOOD, C. P.</td>
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<td>PAYNE, G. S.</td>
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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. BRAB-(Gatton Manor), R. McALLISTER (Alderney), A. BRAB-SHAW (Chadwell Springs), BAKER, A. J. (Dereham) and G. R. POOLEY & J. WONFOR Class E. (Members of the Trade),

Singed: F. W. Ford, Hon. Secretary.
Section News

North-West Section

Chairman: E. WALSH
Hon. Secretary: H. M. WALSH
34 Kingsfold Close, Breightmet, Bolton, Lanes.

Change of Address:
Will all members please note my address:—

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

Monday November 18th—G. Vaughan, Ransomes, Sims & Jefferies.
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.
J. MARTIN Hale G.C.
R. P. FLETCHER Caldy G.C.

Welsh Section

Chairman: J. MARTIN
Hon. Secretary: D. C. OLIVER
‘Lynwood’
Llynypia, Rhondda, Tel: Tonypandy 2767

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

Best Gross
1st D. CHEETHAM 109 Nett.
2nd J. MARTIN 109 Nett.
3rd A. PRICE 11½ Nett.
4th D. JONES 112 Nett.

Best Nett
1st J. BORJA 105 Nett.
2nd J. MARTIN 109 Nett.
3rd A. PRICE 11½ Nett.
4th D. JONES 112 Nett.

24 Handicap
1st J. BORJA 105 Nett.
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FYLKING TURF GRASS

mightiest blade growing

FYLKING SMOOTH STALK MEADOW GRASS

'FROM QUALITY CONSCIOUS SEED DISTRIBUTORS'

The Champion, a hardy Viking blade, originating in Svalof, Sweden, Fylking Smooth Stalked Meadow Grass excels on every count.

- DISEASE RESISTANCE
- WEAR TOLERANCE
- CERTIFIED SEED QUALITY
- LOW CUTTING HEIGHT TOLERANCE
- RAPID ESTABLISHMENT
- BRITISH TESTED
NEW! This Toro 'pop-up' sprinkler disappears below ground after watering. Its fully retracting head protects against damage by mowers or vandals.

The 18th at 5:30 am!

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

Toro 'pop-up' sprinklers water greens, tees and fairways through the night, automatically. Day time stoppages are eliminated, courses play consistently and of equal importance, greenkeepers can concentrate on other more demanding work around the course. Consider these benefits then ask Wright Rain to design a Toro 'pop-up' scheme for your club! Write for details and the name of your nearest appointed installer now...