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.

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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.

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## CONTENTS

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPRAYING EQUIPMENT</td>
<td>5–9</td>
</tr>
<tr>
<td>THE GREENKEEPERS</td>
<td>11</td>
</tr>
<tr>
<td>AGM ASSISTANCE</td>
<td>13</td>
</tr>
<tr>
<td>SECTION NEWS</td>
<td>20–26</td>
</tr>
</tbody>
</table>

Front Cover Picture

A THREE-UNIT Sisis Veemo turf maintenance machine removes turf fibre and cuts horizontal growth.

EDITORIAL ADVERTISEMENT AND SUBSCRIPTION OFFICES: Chilberton House, Doods Road, Reigate, Surrey. Telephone: Reigate 43521. SUBSCRIPTION RATE: £1.85 for 12 issues post paid. Published during the first week of each month. All rights reserved. Reproduction of original articles and photographs in whole or in part is prohibited. This Magazine shall not, without the written consent of the publishers first given, be re-sold, lent, hired out, or otherwise disposed of. Contributions and photographs of interest are invited.

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The British Golf Greenkeeper
All about spray gear

The Importance of Reliable Spraying Equipment Calibration and Maintenance

This is a synopsis of an illustrated paper presented recently at Turf '75, a day Seminar held at Reading University and organised by Synchemicals Ltd.

THERE ARE two basic types of spraying equipment, Air Blast—not usually employed in local authority work and Hydraulic used to handle herbicides, insecticides, fungicides, growth retarders, liquid fertilizers, trace elements etc.

Materials for the above applications fall into two types—true solutions i.e. liquid chemicals in water and suspensions i.e. wettable powders in water. True solutions are corrosive to a greater or lesser degree whilst suspensions are certainly abrasive and probably corrosive.

Spraying equipment compatibility and corrosion resistance vary. Among the pump types, diaphragm are corrosion and abrasion resistant, piston are corrosion resistant but susceptible to abrasion, roller vane are liable to corrosion and abrasion whilst centrifugal are also liable to corrosion and abrasion.

Turning to tanks, the hot dip galvanized mild steel type are very good and resistant to corrosion, internally coated tanks are good but susceptible to damage and deterioration. Plastics of various types are mostly compatible but are susceptible to ultra violet light, changes in temperature and certain solvents. Fibre glass are compatible but subject to deterioration and cracking if they are not thick enough and built to a good specification.

Controls and plumbing are either metal-ferrous, coated or galvanized, non ferrous untreated or plastics.

Hoses can be synthetic rubber braided construction or plain or armoured plastic.

Booms can be ferrous or non-ferrous pipes and jet or plastic pipes and jets.

Types of Spraying Equipment

Tractor mounted—ground crop boom, carrier boom, hand lances etc.

Large trailer unit with ancillary equipment as above.

Land Rover with P.T.O. driven pump or separate engine driven pumping unit and range of ancillary equipment. Suitable also for Haflinger, Unimog etc.

Free standing tanks and pumping units to mount on flat bed lorry or trailer or to fit into a van or pick-up etc. Again a range of ancillary equipment.

Small trailer unit for mini tractors and equipment.

Small power operated, hand propelled unit for hand lance work.

Small pumping units c/w tank, petrol engine or electric drive. Suitable for hand lance work.

Suitable boom length and jet centres are half metre centres for herbicides and 9" centres for growth retarders.

There are basically three types of jets. Fan jets with 80° or 110° angle of spray, hollow cones and flood jets.

When considering the correct height setting of booms and jets overlapping of fan jets should be 4” to 8” depending on patterns and 50% overlapping of cones to avoid stripping.

Calibration

To determine output required, read carefully the instructions given by the manufacturer and then check the Output Chart of the sprayer to ascertain...
Give your roots an airing

When it comes to spiking and slicing you'll have to look a long way to find anything more effective than the Ransomes-Hahn TM Models. The cultivating action of the aerating 'spoons' are the result of patient research into the surest way that the spiking will allow air, water and fertiliser to do most good. This action is unique to Ransomes-Hahn. Turf tearing is prevented by the patented 'Flexi-press' springs which fit over the spoons. Alternatively, the double point spiker blades cut cleanly and quickly. Three point tractor attachment makes the TM models highly manoeuvrable to deal with normally inaccessible areas.

Point for point you can't do better than employ Ransomes-Hahn turf maintenance equipment, talk it over with your Ransomes dealer.

Check these features
Two models TM140 or TM 80.
Full 6' cultivating width.
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Ransomes Sims & Jefferies Ltd., Ipswich.

RANSOMES
Ransomes-Hahn TM-140 Aerifier...and a complete range of turf improving equipment
the size of jet and pressure required.

N.B. Tractors based on 4 m.p.h. and Land Rovers on 8 m.p.h. Have available a container of water and measuring vessel.

The following procedure should then be followed:

1. Fill tank with clean water.
2. Fit correct size jet.
3. Run up sprayer and check that the jets are working and anti-drips function.
4. Set Pressure Control Valve so that the pressure is as given in the Output Chart for the volume required. (Note any variances for any anti-drips fitted).
5. Switch Main Control cock to the “OFF” Position (Note all boom selection cocks are switched “ON”).
6. Decide gear and engine revs to give 4 m.p.h. P.T.O. speed must be 540 r.p.m. when using wettable powders. If other forward speeds are required consult the Instruction Book under heading “Calculation Formulae”, or chart giving jet outputs at different forward speeds.
7. With tractor or Land Rover on level ground, top-up tank to the lid rim.
8. With two flags mark out \( \frac{1}{4} \) acre strip of ground to be sprayed. The distance between the flags will be determined by the width of the boom.

### Boom Width
- 18 ft.
- 21 ft.
- 24 ft.
- 27 ft.
- 30 ft.
- 39 ft.

### Distance to be covered to spray \( \frac{1}{4} \) acre
- 202 yards
- 173 yards

9. Drive at 4 m.p.h. and when the boom is level with the first marker, switch main control to “ON”.
10. Drive on down to the second marker and when the boom is level with the second marker switch main control to “OFF”.
11. Turn tractor or Land Rover and repeat the spray run in the opposite direction.
12. Return to position where the tank was originally “topped-up”.
13. Fill sprayer tank to rim, measuring the exact amount of water added.
14. This will be the amount of water sprayed on \( \frac{1}{4} \) acre, and to find output in gallons per acre multiply this figure by 4.
15. If this is the correct output required make note of jet pressure, gear and engine revs for future spraying at this particular output.

If the volume is incorrect, adjustment can be made by either altering the pressure, or by adjustment on the speed of the tractor or Land Rover.

### Maintenance

**Daily—Sprayer**

- (a) flush out with water.
- (b) remove all hoses and run pump dry.
- (c) drain tank.
- (d) wash down externally.

[Turn to Page 9]
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.
Filter
(a) remove and clean filters.
(b) check gaskets and seals.

Power Drive Shaft (if fitted)
(a) grease.
(b) check spring loaded clip.

Pump
(a) grease if possible.

Pressure Gauge
(a) check for zero reading and chemical blockage.

Booms
(a) check jets for alignment damage and wear.
(c) check hoses for fit and damage.

Storage & Frost Precautions
(a) flush with water and scrub tank with washing soda.
(b) flush out with water.
(c) fill with water and de-watering fluid for metal tanks.
(d) pump out but not through boom if plastic.
(e) remove all jets, anti-drip devices, feed hoses and store in a dry, warm, dark place.
(f) open all valves, remove all end caps and drain plug.
(g) ensure pump completely empty of water.
(h) grease and oil all threads, hinges and all surfaces requiring to be kept free from rust.
(i) store the sprayer in a safe, dry place with the tank lid just open to avoid condensation.

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[Spray Equipment from Page 7]
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The British Golf Greenkeeper
VIC SMITH took over as Head Greenkeeper of Handsworth Golf Club, Birmingham, in 1967 when Ernie Benbow retired after 40 years service at the Club. After leaving school at Market Bosworth in Leicestershire Vic did two years night school studying botany and then went into the army for two years. Among the places he visited were Aden, Algiers, Ceylon, Egypt, Malta, Gibraltar, Singapore, Hong Kong, Japan and Korea.

After leaving the army he went back to Handsworth, becoming first assistant after several years. The skills which Ernie Benbow had taught him stood him well when he became Head Greenkeeper and he further increased his experience when he went to the U.S.A. with the British Greenkeepers in 1973.

Vic has served the Association well having been for the last 14 years on the Midlands Section Committee of which he is now Chairman. He is also Vice Chairman of the B.G.G.A. Having played to 6, his present handicap is 10 but says he doesn’t have the time to play so much these days.

Handsworth is a 21 hole inland type course and undulating. In the past ten years the course has been beautified by the planting of 10,000 trees, a project which members yet to come will appreciate. The Club has 850 members in all of which 400 are playing members. It shares the distinction with the Association of having Carl Bretherton as President.

A total of five full time greenkeeping staff have a wide range of equipment to help them. These include 2 Tractors, 1 Trencher, 1 Shredder, 1 Rotary Soil Sifter, 2 Certes, 1 Sprayer, 1 Ransome 24” Mower, 1 Rotorake, 1 Rotovator, 2 Flymo, 1 Hayter 26” Rotary, 1 Toro 70”, 1 Ransome Hahn, 1 Sisis Aerater Greens, 1 Aerater Fairways, 2 Hayter Rotarys 18”, 1 Over-green, 1 Mk 10 Quintuple Gang Mower, 1 Mk 12 Quintuple Gang Mower, 2 Cyclone Spreaders, 1 Van.

Vic’s choice of grass seeds are Cannock, Fisons and Mommersteeg. For fertilizers he relies on Cannock, Fisons and S.A.I. and his choice of fungicides is Tecto, Mersil, Maysan and Mildothane.

One of the special problems presented by the course is vandalism as it is on the edge of a 300-acre open space, but it is fortunate that Birmingham City Council are building a new Municipal Golf Course next to the course—the architect is Mr. Fred Hawtree. Handsworth G.C. now has acquired an Alsatian dog which they find a very good deterrent. One other problem is the drains, part of the course has a considerable amount of clay, while the other half is gravel. The drains are of the old type 2” and 4½’ down which created trouble before they had the trencher. Over the last 4 years three new holes have been made through dense woods, bracken and bogs.
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For members planning to attend the AGM and Annual Tournament, we reproduce below a map of the area and a list of addresses at which accommodation within a reasonable distance can be provided. Telephone numbers and bed/breakfast fast prices are also listed.

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May
[Hotel list from Page 13]

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THE HARTS HOTEL, Birmingham Road, Walsall. 92 22343
MIDLAND HOTEL, Station Street, Walsall. 92 21892
THE STANMORE HOTEL, 73 Lichfield Street, Walsall. 92 25012
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Mrs. Lloyd, Larches Guest House, 4, Lichfield Road, Walsall. 92 38730

Tide down!

AT THE Waimairi Beach Golf Club, New Zealand, they have a copy of the tide charts alongside the starting sheet. If you can play bunker shots, you play when the tide is out, if not, you wait till it comes in and the bunkers fill.

Almost as tricky as the North Island Club which uses the water line of a tidal river as a boundary. You can hit a ball out of bounds, wait a while and play it when the tide drops and leaves it in bounds.

Extract from—New Zealand Golf Greenkeepers' Association Newsletter.

---

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[Turn to Page 17]
This 32% N Fertilizer is an absolute boon to everyone concerned with superb grass, whether it be for a sportsfield or for general amenity areas.

It gives an initial boost within a few days, then a steady supply of nitrogen for up to 5 months. It keeps the turf lush and green all season and minimises leaching and scorching.

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The British Golf Greenkeeper
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This fertiliser has no equal for fine turf areas, and is widely used by parks departments and other authorities for bowling and golf greens. It is a scientific blend of organic and inorganic materials, and is a complete balanced grass food which may be applied from March to August. First dressing at 2 oz. per sq. yd., subsequently 1 oz. per sq. yd.

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May
Sheffield Section

President: S. K. ARNOLD

Hon. Secretary: B. V. LAX

153 Kilton Road, Worksop, Notts.

THANKS for an interesting Lecture go to Mr. C. J. Head of Chipman Ltd. At Abbeydale on 6th March he gave us a talk on The Modern Use of Fertilizers. I am sure everybody must have picked up something useful.

Whilst on the subject of Winter lectures, I would like to thank everyone who has attended our monthly meetings. We averaged between 40 and 50 members throughout the winter. If anyone has any ideas for next winter’s subjects maybe they will let me know.

Dates for our Summer golf fixtures are as follows:

Mr. S. K. Arnold (President) Prize: June 11th, Abbeydale Golf Club, 2.30 p.m. followed by A.G.M.

Annual Tournament (Section): July

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A PARTY of 40 greenkeepers from the North West section of the British Golf Greenkeepers Association, recently visited Ransomes factory at Ipswich. During their visit they watched the production of professional grass machinery in the factory, and saw a demonstration of some of Ransomes high work rate grass cutting and turf maintenance machinery.

9th, Wheatley Golf Club, 9.30 a.m.  
Autumn Tournament: September  
15th, Dore & Totley Golf Club,  
1 p.m.

Many thanks to Captains and Committee of all the above Golf Clubs, for their kind permission in allowing us the use of their courses for our fixtures.

East Midland Section

President: R. BAILEY  
Hon. Secretary: S. FRETTER  
147 Mere Road, 4 Queens Drive,  
Wigston Magna, Leicester Forest East, Leics.

A QUIZ was held at The Three Nuns Hotel on 24th February 1975. This was won by Mr. R. Willar's Team.

A Film Show given by Toro Ltd was held at Scraptoft Golf Club on 12th March 1975. It was a very interesting show and thoroughly enjoyed by everyone. There was a good attendance by greenkeepers, also it was nice to see representatives from Henton & Chattel, Erringtons of Evington and Walkers Golf Course Suppliers.

The Annual Autumn Golf Tournament will be held at Birstall Golf Club on 1st October 1975.

Owing to a typographical error, there was a mistake in the Sections News from East Midlands published in our March issue. Retiring treasurer, Mr. Alan Thornton, was inadvertently presented with the knock out cup in our account but the knock out cup was, of course, presented to Mr. Lane. Mr. Thornton was presented with a barometer. Our apologies to all concerned.

[Turn to Page 23]
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OVER forty members attended the third Winter lecture held at Alresford Golf Club recently and they were rewarded with a very interesting talk on Irrigation by Mr. R. Gundry of Toro/Wright Rain Ltd. Mr. Gundry covered every aspect of the various water systems which are installed on golf courses in this country and he illustrated several points by special slides.

Considering the fact that Mr. Gundry had to deputise for Mr. Flowerday at the last minute and he also remained unperturbed by the presence of a "member" only four years old, we all agree "Didn’t he do well!" and extend to him our grateful thanks for making the long journey from Reading.

We are pleased to welcome Mr. P. Stanwick of Alton Golf Club and we hope his association with us will be a long and happy one. Since May 1974 we have achieved a fifty per cent increase in membership!

Our very grateful thanks to Paul Huxley and staff who provided us with a very interesting evening on Tuesday, March 4, 1975, the last of our Winter Programme of lectures. The topic was "Machinery for Hire" and we were shown many slides illustrating the various machines which are available, and the many uses to which they can be put, with added comments from Mr. Huxley. Many members took the opportunity to look around the showrooms after question time.

I would like to express a very big thank you to the many members who attended all five lectures which were arranged.

Several members were also present at a Machinery Demonstration held at Alresford Golf Club later in the month. It was a very cold day for standing about watching machinery being put through its paces but interest was main-
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The British Golf Greenkeeper
The March talk was given by Mr. J. H. Franks of Twyford's Seeds Ltd. on New Grass Strains. One of the new ones suitable for putting greens was 'Pencross'. Mr. Franks also spoke of the research and laboratory work entailed when searching for new strains of grasses, another very interesting talk much appreciated by members present, thank you again gentlemen.

Re the talk given by D. Legg of Ransomes I am sorry to say I inadvertently forgot to say 'Thank you very much' to Messrs. W. Burrows Ltd., Grafton Works, Salford, for the refreshments provided, both liquid and solid.

Our sincere thanks to the Directors of Ransomes Ltd. for their generosity, courtesy, kindness, and the warmth of their welcome on the occasion of our visit to their factory on March 10th and 11th when 32 of our members made the long trip to Ipswich, thanks for refreshment provided, also to the staff of Ransomes for their patience in answering the many questions put to them. Thanks to Mr. Guy Catchpole, Marketing Manager, for his welcome both at the factory, and the dinner Messrs. Ransomes gave for us on the Monday evening, also to Mr. Knight of Home Sales for seeing to the booking of our hotel rooms, to our old friend John Wilson for generally seeing to our welfare, to D. Degg, Ransomes Rep. who worked with me in getting the trip off the ground, also to all those people who I have not mentioned but who played a great part in making the occasion the success it was, thank you again. I must now say a very special word of thanks to Messrs. R. Daniels, Garden Centre, Wigan Road, Leyland, and Messrs. W. Burrows, Grafton Works, Salford, for their kindness in footing the bill for the coach which took us to Ipswich, a very considerable item, and a gesture greatly appreciated by all the members who travelled. Thank you once again, and now a word of thanks from me to Robert for seeing to things while I was on holiday, Thanks, Bob.

We welcome to the Section the following new members and hope their association with us will be a happy one. J. Holt, Lowes Park Golf Club, Bury, Lancs. W. R. Jepson, Long Island Golf Club, Westhoughton, Lancs. M. Ryan, North Manchester Golf Club, Middleton, Lancs.

Northern Section
Chairman: J. SCOTT
Wetherby Golf Club
Hon. Secretary: W. HEELES
7 Tentergate Close, Knaresborough, Yorks.
Tel: K'boro 3851

A GATHERING of members took place at the Moor Allerton Golf Club on Thursday, the 27th March, for an open discussion. The meeting was conducted from the chair by Mr. Brian Birdsall.

In his opening remarks, the Hon. Secretary congratulated Mr. A. Robertshaw on becoming the father of a baby daughter, and also congratulated David Hannam on being appointed Superintendent of the Sports Turf Research Institute Grounds. Well done, David!

The discussion mainly centered around the suggested Wage Scale that was adopted at the Executive Meeting in March. Also discussed was the status of the Greenkeeper, and the Secretary informed the meeting of the G. D. Council's efforts for Greenkeepers.
ON FRIDAY March 21, the Southern Section was again privileged to play on one of the magnificent golf courses at Walton-Health. Despite the fact that many of the courses in and around London were closed owing to consistent rain the previous day, conditions on the New Course at Walton-Heath, playing and weather-wise, were near perfect.

Eighty-six played in the 18 hole 4 ball-better-ball stapleford and 44 points were carded by the following, results being decided on last nine holes:

1st, J E Iddington & F W Ford.
2nd, J E Newman & Mr Downing.
3rd, J Field & T F Foster.
4th, B Streeter & Mr Chambers.

In the evening 136 people sat down to a first-class meal and among the guests were: Sir Patrick Macrory understudying for the Captain of Walton-Heath; Eric James, Chairman BGGA and Mr C. H. Dix retiring Secretary and Treasurer BGGA. I would like to take this opportunity on behalf of all the Southern Section to wish Mr. Dix a long and happy retirement. It was also a great pleasure to have with us on this occasion two life members Stan Morton and Bert Dash. I think I am right in saying that Stan has now been a member of this Association for sixty years.

The toast to the Association was made by Sir Patrick Macrory and reply by Eric James. Jock Glass proposed the toast to the Guests and the response on behalf of the Guests was made by Stan Taylor. Stan, a most versatile dialect comedian, concluded the dinner with a splendid entertainment.

Our sincere thanks to the Walton-Heath Golf Club for the courtesy of the course; to the ever-increasing band of helpers who chip in their help so willingly; Huxleys and Fisons for prize donation, and to everyone who contributed towards making it a memorable day. Organizers of the Benevolent Fund Raffle were Bonzo Ryan and Derek Gould.

A warm welcome to the following new members whose names are listed below: A. REED & D. RODWAY (Royal Eastbourne), P. R. BRAMLRY & D BLUNDELL (Knole Park), R. KATES (Hillingdon), R. BISHOP of Ransomes, and to G. DARBY who has returned to the Section after a spell of five years with the East Midland. Congratulations and good wishes are in order to Archie Creese (Bognor Regis). Archie was 70 in April and plays off 11.

A poor turn out by Southern Section standards for the lecture given by Colin Head on Wednesday March 5. Colin talked with his usual expertise on “Soil Analysis and Fertiliser Recommendations—New Approach” maintaining a lively interest throughout the evening.

**Diary Dates**

- June 11: Southern Section A.G.M.
- July 31: Midland v Southern match.
- June 11: Sheffield Section A.G.M. Mr. S. K. Arnold (President) Prize.
- Sept. 15: Autumn Tournament, Dore and Totley Golf Club.

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