WALTER WOODS
St. Andrew's Links Superintendent

The Preparation of a CHAMPIONSHIP COURSE

What makes a great championship course? I doubt very much if it's length, when you consider that Ian Woosnam, Sandy Lyle and Seve Ballesteros can hit the ball well over 300 yards off the tee. Perhaps it's character. That is a possibility, when you see the ruggedness of Royal St. George's or the serenity of Turnberry. Then it might be beauty, such as St. Andrews at evening when shadows are at their longest.

Fred Hawtree, the Golf Course Architect and one of the foundation stories of the British Greenkeepers Association, once remarked "A Golf Course is made famous not by what is there, but rather by what happened there". If you study his remarks you will be able to analyse his logic.

There is an abundance of great courses throughout Britain - Hollinwell, Woodhall Spa, Blairgowrie, Hunstanton or Gleneagles are a few examples. Unfortunately geographical location dictates their suitability or lack of it. Such questions as: is an airport located in close proximity; has the course access by road and rail; is there sufficient car parking; is sufficient space available for a tented village, are all part and parcel of organising today's tournaments.

Last year we watched Oakland Hills and Augusta on television. We envied the ability of their Superintendents, Ted Weorhle and Bill Fuller. We admired the excellence they produced. However, we too could acquire this excellence, if we constructed our Golf Courses in Botanic Gardens and made costs so prohibitive that only a few could play. For us golf has become a national sport, accepted by the public as a recreational game, which anyone can play at a reasonable cost.

Club Management is well aware of "pounds and pence". This virtually dictates that courses be played, on normal greens and tees, for as many days as possible throughout the year. Championships are also important. They project the courses that they are constructed our Golf Courses in Botanic Gardens and made costs so prohibitive that only a few could play. For us golf has become a national sport, accepted by the public as a recreational game, which anyone can play at a reasonable cost.

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Great players from around the world acknowledge that the traditional British golf course has stood the test of time. If golfing skill is to be encouraged, it is essential that Green Staff maintain surfaces in a traditional manner, while making use of modern science and technology.

The "OPEN", is the ultimate golf championship and provides the greenkeeper with an opportunity to present his course in the best possible playing condition, taking into account the delicate balance of history, golfing records and modern ability, coupled with traditional fast fiery surfaces.

A well managed championship course will always be kept in reasonable order, working at 70% efficiency and ready for the 30% more effort to have it in peak tournament condition.

When Mr. Keith MacKenzie, past Secretary to the Royal and Ancient Golf Club, approached Muirfield to accept the 'Amateur' at short notice, he asked Shaig Logan the Head Greenkeeper how long it would take him to prepare the course. Shaig replied, quite seriously, "Would two weeks be too long Sir?"

To prepare for the "OPEN" takes a little longer, however, and the R&A would normally approach the venue concerned some 2 or 3 years in advance. Once arrangements have been made the Greenkeeper will organise his work schedules for each area, taking into account even the smallest detail.

FAIRWAYS

There is no precise definition in the Rules of Golf for the term 'fairway'. The term 'through the green' encompasses both the fairway and rough.

Density, uniformity, smoothness and firmness are the components of quality fairways. Jack Nicklaus, Lee Trevino, Tom Watson and many more great players advocate short, uniform grass and firm surfaces. The firmer the surface the more backspin they can apply, making the game, more of judgement and control.

Links fairways are regarded as terrain which God provided for golf. The undulations and mounds, the bounce and roll test a player's character. Maintaining these surfaces can be equally demanding, sometimes even exasperating, to the greenkeeper. To create uniformity, everywhere should be equal, yet mounds and high spots dry out quickly, while hollows receive water and become soft and lush encouraging larger divots.

Aeration is divided into categories: hollow-corring, verti-draining, and slit-tining. Sand is spread in the hollows and fan peat onto the higher areas. Overseeding takes place annually with particular attention paid to weak areas or spectator routes - with strong creeping red fescue cultivated into existing grasses, and these areas protected by post and rope.

Prior to the tournament, fairways are made narrower by allowing the semi-rough to grow, then they are cut back in areas dictated by the championship committee. After the tournament they are reinstated as soon as possible to their original state, which is necessary to speed up play, to cater for the thousands of amateurs from all over the world who want to play at St. Andrews.

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Walter Woods is the Links Superintendent for the four courses at St. Andrews, the Old Course, the New Course, the Eden and the Jubilee. He is a long standing member of the BGGA, and an honorary member of the GCSAA. This year as well as being the Director of Education for SIGGA he has taken on the mantle of President. An accomplished speaker, he has lectured in the United States and Canada, on the maintenance and history of British Golf Courses.
BUNKERS

Bunkers are a feature of St. Andrews - copied all over the world - sometimes unsuccessfully. Bunker facing or revetment is a skilled job adding character to the course. The deep, frightening faces, which confront the wayward golfers, are constructed in such a fashion to prevent sand blowing away. All of the bunkers are named, Hell Bunker, Cockle, the Principal's Nose, Beardies and the Road Hole Bunker, each has played its part in history, the latter being no exception. Doug Sanders pitched out dead, for his four in 1970 only to three putt the last, then lose out in the play-off the following day. Tommy Nakajima, the Japanese golfer, after leading in the 3rd round of the 1978 championship, took five shots and finished with a nine - five over par. Some of the locals have renamed this bunker "Nakajima Sand".

TEES

Tees are maintained exactly as greens, adopting the same method of maintenance. They are aerated, fertilised, irrigated, top-dressed, and scarified in a similar fashion.

We have ladies, forward mens, competition and tournament tees. Tee positions and pin locations are organised to constantly change the walking-off routes. Regularly, tournament tees are firm ed up by allowing the public to play on a rotation basis. Fescue and bent grass is encouraged, allowing lower cutting heights similar to those for Greens.

During any tournament our first tee is used as a practice putting green area to allow competitors a few putts to relieve tension before they tee off.

GREENS

Most criticism is reserved for greens. Although greens represent only about 2% of the golf course area, they play a role in 75% of all golf strokes, assuming a par round. Any professional golfer scoring par rounds would be well down the money league. So putting is the area which separates the men from the boys.

Good quality greens are the most important part of the golf course. Greens receive more discussion in the clubhouse than any part of the course. More golfers blame greens rather than their own ability. How many times have you heard the comments "The greens are too slow", "The greens are too bumpy".

The finest quality greens I have ever seen and ones which would immediately suit championships are Muirfield, Guilane, Elie, Kilspindie, Sunningdale and the Merion in Philadelphia. What do all these greens have in common? The answer is that they contain a large amount of fescue and bent grass. Why the Merion and not Augusta - simply because of the climate. Augusta's greens are total Pencross Bent and require warm temperatures to survive. The Merion, with a similar climate to Britain, is maintained with traditional British greenkeeping methods and although a relatively short course, it promotes skill rather than relying on green speed only.
Championship greens can only be kept for short periods. To expect perfect greens every day of the year is asking the impossible. Good greens are expected and great greens should be appreciated. Never can the greenkeeper explain his ability to the members. For like most things it is taken for granted. Golfers everywhere fail to understand the frustration of aeration or top-dressing or why pin positions are kept deliberately on the perimeter of the greens. Fine grass playing surfaces can change from one season to another and require constant attention.

Once we are informed that we are to receive the Open Championship I allow the year before to work to my advantage. It provides an excellent opportunity to prepare for the following year. During the summer I would deliberately keep fertiliser to a minimum and if applied it would be to experiment with timing for use prior to the tournament the following year. Artificial watering would also be kept to a minimum, with the philosophy that a good drought will get rid of any undesirable grass which might be present. If any grass colour is required one way to achieve this would be to apply Sulphate of Iron.

Aeration would also be more intensive, followed with sandy top dressings and in the event of some of the weaker grasses dying these would be replaced with grass which will succeed. This can be achieved in the Autumn by plugging with a 6 inch diameter hole cutter and replacing with suitable turf from the Turf Nursery. One particular green at St. Andrews has received over 10,000 of these turfs over the last 10 years. This treatment might appear drastic but it is successful. Over the winter months it does not take long for it to blend into the surrounding grasses.

Bent and fescue will provide a much better density of grass texture

Bent and fescue are tolerant and once established will provide a much better density of grass texture, uniform and smooth and from then on less expensive to keep. The 'playability' factor will also improve with more trueness of ball roll. Resilience or bite will be discovered and less plug marks will be noticed.

Winter months are critical. The weather can assist or oppose you. Aeration, bunker and turf repairs should all be completed early. Spring quickly approaches and nothing should be attempted that will disrupt the surfaces. Delegation of duties will be necessary to allow you to operate and concentrate on the course.

Above: If we constructed our golf courses in Botanic Gardens such as Augusta few could afford to play.

Left: The 18th green and the headquarters of the R&A.

The 1st tee duals as a practice putting green prior to the major tournaments.
Most of the contractors will arrive at this time. First to appear will be the stand erectors. Nineteen or twenty stands, which contain seating capacity for over seventeen thousand people daily, have to be erected at prime viewing locations. This will be the periphery of the course. Next to arrive will be the telephone, electricity and water companies. Miles of pipe and cables have to be undergrounded. To accompany them will be television, fencing contractors, plumbers and joiners. Each day involves meetings to provide them with available routes and information so that they can carry on their own particular operation in harmony and eliminate fear of extensive damage.

Fertiliser can be applied to the greens and tees at the first sign of growth

The first sign of growth allows an opportunity to spread fertiliser to greens and tees. Organic liquid feeding through the composting pits, fairways and semi-roughs. Irrigate more regularly if the weather gets warm. The intention now is to create green coverage. turf. The application is necessary to repair aeration and thatching. It will also allow maintenance duties such as the application of light top-dressings every two or three weeks without the danger of thatching. Verticutting, in particular, the flat areas should work in hand in glove with topdressings. Regular rolling with the heavy roller will be fitted with smooth rollers will be required to firm up the top surface.

Weedkilling takes place in every area when sunny weather permits, particularly patches of clover which might exist in the semi-roughs. Greens usually require two applications to eliminate broad and small leaved weeds such as Daisies or Mouse-eared Chickweed. Chemicals have a knocking off effect. Cutting back on the grass special care should be taken with timing. Constant supervision and written instructions will be important to eliminate human mistakes.

Watering agents can be added with the weedkiller when applied to the greens and this will assist the grass to stand up to more prolonged periods without water.

Hole positions during this period can be located around the perimeter of the greens with the intention of saving artificial locations until required. Sand screened through a fine mesh will be placed into the bunkers well in advance, firmed up and constantly raked to ensure no lips or edges are apparent.

Fertiliser is again applied to greens and tees approximately 5 weeks before the event. Timing is essential to have the fertiliser well past its peak. Better putting surfaces are a reality when the turf is on the lean and hungry side.

If Triplexes are used, daily checks, normally at dusk, are essential - the last thing you want is oil spillage or petrol leaks. Hold your course back during this period, just like a jockey with his racehorse waits for the last furlong and sight of the winning post.

Occasionally, cut with pedestrian mowers set at around 3/16ths of an inch to be harmonious with the 3/16ths of the cylinders and blades. Two weeks before the tournament you will begin to realise the benefit of your past work and the effort put into another dimension is necessary - they are just as keen and equally proud of the course. Turn off your irrigation system with the intention of allowing surfaces to dry out. Then water lightly with discretion if temperatures are high.

Give greens the last verti-cut then remove Triplexes altogether. Reduce the height of cut down a fraction on pedestrian mowers then start cutting the greens once per day.

The press will be inviting comments to create a sensational story

This is when the professionals arrive to practice. They will be more relaxed and will be likely to make comments. The Press will be present and they will invite remarks hoping to create a sensational story. Cut everything, which will create a desire tightness - the sight of your tee banks and around bunkers to encourage the ball to roll into the middle rather than lodge on the edge. Reduce the height of your fairway mowers. If they have steel wheels have a spare set of rubber tyred wheels on stand-by. In the event of very hot drying weather steel wheels will leave marks.

Receive short and long term weather forecasts. The evening before the tournament remember to switch off the electric to your irrigation system - it would really be chaotic if the pop-ups came on during play. Give each of the greens a light brush then cut them in two opposite directions. Cut them again the following morning and from then on twice daily, morning and evening if the weather allows. Day to day decisions will be required however regarding speed in the event of wind. A Stimmeter can be a valuable tool to measure the speed and create uniformity throughout the 18 greens (plus your practice green). Some greens might require extra cutting and brushing; some might require less cutting - at least it gives a measure of uniformity of putting speed.

Hole locations will be decided each morning - usually at dawn. The Championship Chairman accompanied by the Head Greenkeeper will decide on the best pins for day one taking the weather into account. No tricky positions are necessary. Once selected, the hole is extracted and the cup inserted at least three quarters of an inch below the grass surface. Loose grass around the perimeter of the hole is then trimmed with scissors. After completion the immediate area is firmed up by pressing on a board and the earth part painted with a quick drying paint.

On the second day of the Championship you can relax...... but keep out of the way!

Over the next few days the course will be abused with machinery. Fairway mowers will probably be among them. He too will be rich, but not financially, only in the knowledge and satisfaction that he accomplished more skill and effort than that of all the players put together.
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His score of thirty one points off six handicap was a superb performance in the testing conditions, as were the scores of the two runners-up. In the traditions of all good finals the winning score came from the last putt on the eighteenth green where Peter’s second shot, a pitching wedge to the pin, ran three yards past and his putt ran out of steam inches from the hole.

Playing immediately behind, Trevor Bennett, a member of the Devon & Cornwall Section, stood the eighteenth tee with thirty points on his card. He hit his best drive of the day well over three hundred yards down wind and needed only a sand wedge to the green. What happened then we will never know, sufficient to say the ball did not respond and he took two more to make the putting surface and another two to get down.

Accepting the rub of the green, in the true spirit of all Greenkeeper Tournaments, Ron confessed to a truly great twelve months golf, including three major prizes at the National Tournament and membership of the victorious Greenkeeper’s Team at the Belfry.

Despite the wind and rain with temperatures only short of freezing, the warmth of the reception in the clubhouse from both members and staff, quickly thawed the most frozen fingers, leaving a lasting impression of Hunstanton’s generous hospitality to the twenty-five competitors, supporters and guests.

Jacobsen’s Vice President of Sales, Mr. Curt Kimpfbeck, flew in from Chicago to perform the presentation ceremonies, foregoing a visit to the Masters for the opportunity to play a championship links course, but this was a pleasure he had to postpone. Venturing on to the east coast links still in the grip of winter would have been a certain recipe for a bout of pneumonia, for someone who only hours before had left a sunny Racine basking in temperatures around the high 70’s.

Among the guests at the presentation dinner were Mr. Jeremy Thompson a past Captain and present Green Chairman, the Club Secretary, Mr. G. H. Allen, the Head Greenkeeper, Mr. Jimmy Reed, the professional Mr. John Carter and the E. Midlands Greenkeeper, Mr. John Lelean. The proceedings were hosted by Morrison Industries General Manager, Mr. Chris Smith, who even provided some choice New Zealand wine (Morrison’s are an Antipodean Company) to round off an excellent menu.

This tournament was the final of the 1985 Jacobsen Competition postponed from last year because of the change in dealership to Morrisons, announced at the Windsor Show. During the next few months a series of regional events will be held, culminating in a 1986 Tournament which is planned to be played once again over the Hunstanton links.

Peter Shaw was told by Curt Kimpfbeck presenting his prize of a stereo radio, he would also receive an invitation to attend an educational conference organised by the GCSAA to be held in Phoenix, Arizona in February next year.

Responding, Peter thanked everyone involved for arranging such a superb final and said how much he had enjoyed the golf despite the conditions. He had a special word of praise for Jimmy Reed for the excellent preparation of the course, particularly the greens, which played fast and true, when so many other courses were still in the grip of a long hard winter.

Footnote

Peter had a double reason for celebration that night. He was told during a telephone call home, one of his sheep had given birth to twins!

Jacobsen Tournament Stableford Scores

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SOUTH COAST
Hon. Sec: J. R. Dennis, Hampshire College of Agriculture, Sparsholt, Winchester, Hampshire SO21 2NF.
Telephone: (096) 272441 Ext. 288.
Section members will be pleased to read that arrangements for the Summer Meeting are as follows:
**Venue:** Isle of Purbeck Golf Club
**Date:** Thursday, 10th July 1986
**Cost per person:** £8.50
The competition, consisting of a member and partner from their Club, will be the usual format of an 18 hole four ball better ball, commencing at 1.00 p.m.

Written entries, giving name and address, name of partner and current handicaps, together with the correct fee, should be sent to:
Mr. Ian Rickman,
53 Woodroofe Drive,
Basingstoke, Hampshire RG22 6NH
Tel: Basingstoke (994) 463587
Please note that the closing date will be Friday, 27th June 1986, and that you must be a paid up member to play in the Tournament.
Members will know that subscriptions become due as from 1st May, and details of the new subscription rates were printed in the April Journal. However, for this Section will members please note:
(i) Class 'E' members subscription fee is £10.00
(ii) Class 'A', 'B', 'C', 'D' members please add a Section Levy of £2.00 to your subscription, as agreed at the recent Section A.G.M.

Your prompt payment of Subscriptions will be much appreciated.

MID ANGLIA
Hon. Sec: L. Wakerell, 26 Luxury Road, Berkhamsted, Herts. HP4 3PS
The Summer Tournament will be held at Ashridge Golf Club on Tuesday, 8th July, over 36 holes.
This meeting is for Section Members only and Entries together with Handicap and £10.00 fee must reach Ken Bunting the Competition Secretary by Monday, 30th June.
A Draw will be made on 1st July, so no late entries will be considered.
The competition will begin at 8.30 a.m. prompt, so please arrive early to assure the smooth running of the Tournament.
Annual Subscriptions are now overdue and should be sent to the Treasurer, Les Wakerell without further delay.

EAST MIDLANDS
Tel: Sutton Elms 283053
**SPRING GOLF TOURNAMENT:**
Our Annual Spring Golf Tournament is being held on Wednesday May 14th at Sherwood Forest Golf Club, Mansfield, Nottingham. The first tee will be booked from 12 noon.

**ANNUAL GENERAL MEETING:**
Our Section A.G.M. will be held on Monday May 19th at the Leicestershire Golf Club, Evington Lane, Leicester and will start at 7.30 p.m. prompt.

**GREENKEEPERS V. VICE-PRESIDENTS GOLF MATCH**
This year's annual golf match between the Greenkeepers and Vice-Presidents All will be held on Tuesday, June 17th at the Leicestershire Golf Club, Evington Lane, Leicester.

Teams for this event will be selected by the respective Captains and the participants will be notified in due course.

**AUTUMN GOLF TOURNAMENT:**
The Autumn Golf Tournament is being held on Thursday October 2nd at Longcliffe Golf Club, Loughborough, Leics. The first tee will be booked from 12 noon.

MIDLANDS
Hon. Sec: Steve Wood, 58 Guernsey Road, Beechdale, Walsall.
Telephone: (0922) 611380
Our last lecture of the season presented by Bob Bolland at Great Hay Beechdale, Walsall.
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Telephone: (0922) 611380

1st K. Millar (Weston G.C.) 66
2nd J. King (Clevedon G.C.) 70
3rd A. Phipps-Jones (Res. L. Johnson) 76

**Scratch to 9**
K. Millar, J. Kane (Res. W. Curtis)
T. Thomas, I Scoones (Res. L. Johnson)
P. Cox, R. Gates (Res. L. Johnson)
C. Chambers qualified for the 19+

**FORTHCOMING EVENTS:**
29th July
Midlands v. East Anglia at Tewkesbury
Will those wishing to play in this match please contact A. Phipps-Jones (Tewkesbury 292892).
If over subscribed the team will be named by selection.

SOUTH WEST
Hon. Sec: P. Worster, 17 Chesterton Grove, Cirencester.
Our first meeting of the season was held at Weston-Super-Mare Golf Club on the 20th of March.
Twenty members took part in an 18 hole medal competition to qualify for the Steetley-Vitax Tournament at Whitchurch in Wales on May 22nd.
It was a cold, windy day and at times it was like battling through the desert in a sand storm. Perhaps this had some effect on the attendance which was best described as sparse.

The greens were in marvellous condition for the time of the year and extremely quick.

The winners were:
1st K. Millar (Weston G.C.)
2nd C. Chambers (Unattached)
3rd J. King (Clevedon G.C.)

The team for the Steetley Tournament is:-
Scratch to 9
K. Millar, J. Kane (Res. W. Curtis)

J. Thomas, I Scoones (Res. L. Johnson)
P. Cox, R. Gates (Res. L. Johnson)
C. Chambers qualified for the 19+

We wish him the best of luck in his new venture in the holiday business at Weston-S-Mare, and we are sure he will do well with his gentle, good natured approach to everything.

**Notice to all Sections:**
The A.R.M.S. Charity Tournament which is jointly run by the South West Section and Peter Hampton is to held on Thursday 21st August 1986 at the Ilton Golf Club, Bristol.
Open to all sponsors and other sections. Please contact:-
PETER HAMPTON,
Telephone Trowbridge (02214) 5864
for details.

WELSH
Hon. Sec: Philip Swain, 6 Locke Street, Newport, Gwent NPT 5HL
The Welsh team to play in the Steetley-Vitax Competition is as follows:-
Scratch to 9
Mike Jones, John Hopkins (Res. Graham Cox)
10-18
Dennis Jones, Philip Swain (Res. Henry Fry)
10 plus
Graham Wissatt, Colin Lewis (Res. Tia Garland)

An additional fixture planned is the match against the Secretaries. This will be played at Southerndown G.C. on the 3rd June 1986, starting at 10.00 p.m.
Our condolences to Henry Fry and Dennis Jones who braved the elements at Hunstanton in the Jacobsen Tournament. Although unsuccessful they enjoyed the experience and fought well in the toughest of conditions.
On Thursday, 17th April, we held our Spring Meeting at Wenve Castle Golf Club. The Competition was played over 27 holes, in the morning and 18 in the afternoon.

The course was in excellent condition and we must thank Tia Garland and the rest of his boys for all their hard work to make the course so good.

We would also like to thank the steward and stewardess for their excellent food and service.

This first competition of the season was well attended and won by a large margin compared to previous tournaments.

Winner of the Cardiff Cup was Kevin Moore with a nett score of 104. He also took the silver crystal vase donated by Rigby Taylor.

In second place was Lawrence Walter with a nett score of 109.

Third came Graham Cox with a score of 109½.

John Hopkins with a score of 113 occupied fourth place.

A raffle was held to help swell the funds which was well supported by everyone present. I would like to thank Ken Chatwin for cracking the whip on the wallets.

On behalf of the Committee and members, I would like to pass on our congratulations to our President on celebrating his Diamond Wedding Anniversary.

The Committee were most grateful to those who donated prizes for both the scores rocketing.

We acknowledge the generosity of those companies who donated the prizes.

I would also like to welcome to our Section the following new members:

- P. Anderson (Newcastle G.C.)
- J. Hagan (Whickham G.C.)
- D. McNeil (Newcastle G.C.)
- B. Walker (Quarrington G.C.)

Applicants must be experienced in ground/golf course management, machinery maintenance and have the ability to lead and motivate a team of four.

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Closing date for applications: Saturday 1st June, 1986

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Par 4 Irrigation, Ash Grove Industrial Estate, Ash Grove, Ripon, N. Yorks. Tel: Ripon (0765) 2175. Supply, installation and maintenance on automatic irrigation systems. Contact: E. B. Simms or L. Oyston.

Sports Ground Irrigation Co., 'Hereward Lodge', Paget Road, Luton. Tel: Market Harborough, Leics. (0565) 63530. Contact: Mr. W. D. Walker.

T. & G. Turf Irrigation Services, 8 Whitcliffe Grove, Ripon, N. Yorks. Tel: (0765) 2176. Golf Course Irrigation Contractors. Vibratory Moleplough and Tractor Winch For Hire. Contact: R. N. Glover or T. Peggo.

Toro Irrigation Ltd., Unit 7, Millstream Trading Estate, Chesterton, Ringwood, Hants. BH24 3SG. Tel: Ringwood 62612.

Watermation Ltd., Monument Way East, Woking, Surrey GU21 3TY. Tel: Woking (0489) 70303. Supply and installation of golf course irrigation.

Wimpey Laboratories Ltd., Farrods Water Engineering Division, Dallamires Lane, Ripon, North Yorkshire. Tel: (0765) 4455. Supply and installation of Rainbird sprinkler systems.


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Frews Grass Machinery (Scotland) Ltd., 30-50 Bankhead Road, Kilmarnock Industrial Estate, Edinburgh EH11 4EH. Tel: 031-443-4436.

GRASS MACHINERY RANSOMES DISTRIBUTORS

Henton & Chittell Ltd., London Road, Nottingham, NG3 3HW. Tel: 0602 862161.

W. Mountain & Son Ltd., Bank Avenue, Morley, N. Leeds. Tel: (0532) 521095.

Contact: A. C. Mountain.

Rows of Chichestor, D. Rowe & Co. Ltd., The Hornet, Chichestor, West Sussex PO19 4JW. Tel: (0293) 780110. Tel: 96110.

Contact: D. Strange or J. Burfoot.

W. Wilcock & Sons ( Preston ) Ltd., Walker Street, Preston PR1 2PH. Tel: Preston 53966.

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BRITISH SEED HOUSES LTD., Bewsey Industrial Estate, Warrington, Cheshire WA5 5JE. Tel: (0925) 54411.

Portview Road, Avonmouth, Bristol, Avon. Tel: (0272) 823691.

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David Bell Limited, Eastfield Industrial Estate, Penicuik, Midlothian. Tel: (0368) 78480.

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