

SEPTEMBER

1965 1/-

The
British Golf

Greenkeeper



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10-knife high-speed cutting cylinder and thin bottom blade give the **Ransomes AUTO-CERTES** unequalled performance. Reliable 4-stroke engine saves time and temper

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Contractors to: Municipal Authorities, Sports Clubs, Golf Clubs. Reconditioning and Maintenance of all grass cutting equipment

THE BRITISH GOLF

GREENKEEPER

HON. EDITOR: F. W. HAWTREE



FOUNDED 1912

PUBLISHED MONTHLY FOR THE
BENEFIT OF GREENKEEPERS,
GREENKEEPING AND THE GAME
OF GOLF BY THE BRITISH GOLF
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The Association is affiliated to the
English and Welsh Golf Unions.

No. 246 New Series
SEPTEMBER 1965

*There was an old golfer named Darr,
Who hated the game from afar.
But he played anyway,
From June until May,
Just so he could ride in the car!*

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ATCO

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FOR 'SUPERFINE' MOWING OF GREENS

This 'self-contained' motor mower has become recognised as the best machine of all for the maintenance of the perfect finish required for the Greens.

The specification is complete and will maintain peak performance —for life.

£90



ATCO's range of equipment for Golf Courses covers every possible requirement from the 12 in. Roller type right up to the 34 in. Roller type, and Gang mowers as well. Then, of course, there is a full range of Rotaries and Sidewheels.

and perhaps most important of all **IMPECCABLE SERVICE**

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THE 24" and 28" ROLLER MODELS

Specially designed for mowing large areas of grass such as the approaches to the Greens

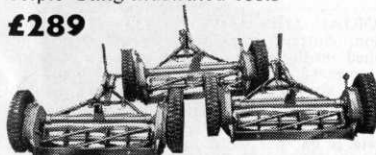


24" - £99 28" - £160

ATCO GANG MOWERS for the FAIRWAYS

Unique—because individual units can be 'ganged' in multiples of one to nine units. Three models are available The Triple Gang illustrated costs

£289



TEE SHOTS



by the Editor

Greenkeepers will approve a rule at the new Dyrham Park Golf Club in Hertfordshire

"Players without official handicap are not allowed to play on the course other than on the practice ground until the professional has advised the Green Committee of their competence."

But delay on the course is one thing—delay of essential greenkeeping operations is getting more serious still. A third of some ground staffs' working time is now spent dodging golf balls and not always successfully. Many players have the idea that an experienced hand on the golf course is invulnerable. Certainly he knows the members who need watching, but visiting societies often look like a swarm of lethal locusts.

Earlier starts in the morning give some additional peace to get on with the job, but the cut on the greens may not be so clean. The real solution is the continental one—close the club one day a week. This would give the indoor staff their rest day and the ground staff a chance to repair the ravages of the other six days play.

* * *

From Dublin another aid to upkeep—this time with the co-operation of the members. You will have seen rakes provided at some courses alongside popular bunkers. Now the Bunkerake Company proposes to introduce a folding rake weighing 15 oz. which can be slipped into the golf bag or hung on the trolley. Moulded in PVC with stainless steel tines it will retail at £3, but production will only be undertaken if replies from clubs are favourable.

* * *

Congratulations and best wishes to A. Crane, of Broadstone, who next month retires after fifty years with the same club.

* * *

The cost of playing on public courses has come into the news again at Bournemouth. The Council have decided to stop season tickets being available on Sundays. Estimates of how much the regular golfer will pay a year vary from £35 to £50. It is cheaper to play on some of the more exclusive clubs — and quicker too. Just when more public courses are needed Maidstone have rejected a plan for a new course in Mote Park. Nearly 6,000 nearby residents objected!

ANNUAL TOURNAMENT and A.G.M.

Whitley Bay now bears few marks of the open-cast coal mining which devastated it some years back. The greens are good, fairways are dense, drainage has much improved and now a new club-house has completed the transformation.

The club officials were kindness itself and spared no pains to make the greenkeepers welcome. The weather was kind, if cool, the golf—let the results show. Altogether another happy and successful meeting with many glad reunions and new friends made. There could be more players though. Is the time right for most people? The question was discussed at the A.G.M., but opinion was evenly divided. Write in and let us know if you would come if it was held at another time of the year or in other places.

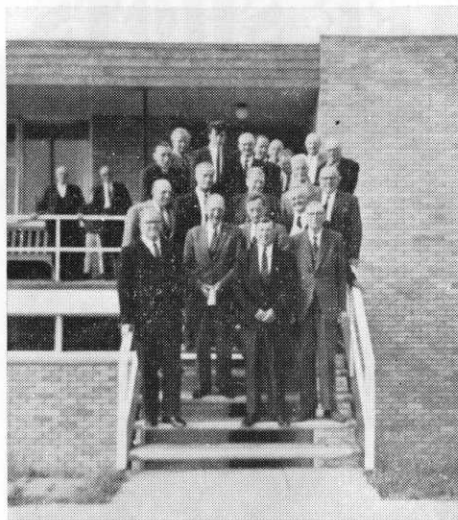


President and Mrs Bretherton

B.G.G.A. Annual Tournament, 1965

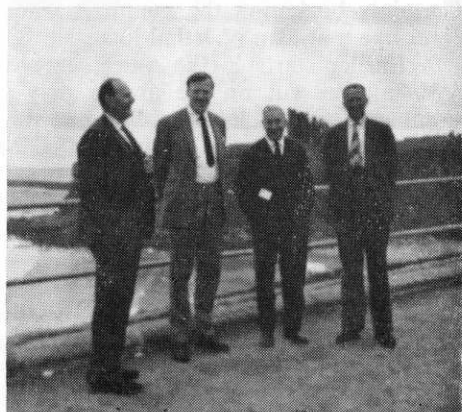
Prize Winners

The S.T.R.I. Cup. 18 Holes Stableford.
 1st Prize (S.T.R.I. Cup and Linen), D. Gray, 40 points.
 2nd Prize (Hargreaves Cup and Table Lamp), I. Scoones, 36 points.
 3rd Prize (Steak Knives), J. Hayes, 36 points.
 4th Prize (Butter and Jam Dishes), J. W. Kirkpatrick, 36 points.
 "News of the World" Cup. 36 Holes Scratch.
 1st Prize (Clock), D. Gray, 140.
 The Artisan Medal. 18 Holes Medal.
 B. J. Reeves, 69.
 Jubilee Cup Inter-Section. 36 Holes Medal.
 (3 Tankards), North-East Section, 431.
 "Coming of Age" Cup. 18 Holes Medal.
 (60 years and over)
 1st Prize (Hold-all), H. Somerville, 72.
 2nd Prize (Shaving Mirror), G. Piggott, 74.
 Senior Division. 36 Holes Medal. ('plus' to 11).
 1st Prize (Ransomes Cup and Gold Watch), B. J. Reeves, 138.



Some of the competitors etc. at Whitley Bay.

2nd Prize ("Golf Illustrated" Cup, Canteen of Cutlery), R. J. Pugh, 145.
 3rd Prize ("Universal" Cup, Travelling Case), R. Derham, 145.
 4th Prize (Clock), J. Hayes, 146.
 5th Prize (Heatproof Tray), J. L. C. Noakes, 147.
 6th Prize (Gas Pocket Lighter), E. Hall, 149.



C. A. Moore, D. Craig, G. Hitchcock and J. Stobbs on the front at Cullercoats.

7th Prize (Travel Rug), D. J. Major, 149.
 8th Prize (Table Cloth and Napkins), E. W. Folkes, 150.
 9th Prize (Silver Pencil), A. Goldthorpe, 150.
 10th Prize (Cheese Board and Knife), G. S. Payne, 151.
 (Golf Balls), T. H. Nutman, 151.

Continued: Page 6

BY APPOINTMENT TO



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SEEDSMEN
CARTERS TESTED SEEDS LTD.

IMPROVE YOUR TURF WITH **CARTERS** GRASS FERTILISERS

AUTUMN/WINTER ORGANIC GRASS DRESSING

An almost entirely organic dressing, does not force grass growth, specially recommended for Autumn and Winter use on poor soils where a better turf is required. Apply at 2 to 4 oz. per square yard. 1 cwt. 58/6; 5 cwt. at 57/- per cwt.; 10 cwt. at 55/6 per cwt.; per ton £53 : 10 : 0.

OUTFIELD AND FAIRWAYS FERTILISER (Autumn/Winter)

Specially recommended for encouraging strong root-growth on all large turf areas, particularly if subject to hard winter wear. Apply evenly at 5 cwt. per acre. 1 cwt. 41/6; 5 cwt. at 40/- per cwt.; 10 cwt. at 38/6 per cwt.; per ton £36 : 10 : 0.

Full details of Grass Seeds, Fertilisers and Maintenance Equipment are now available in our "Autumn Price List" post free on request.

The 1965 Edition of our illustrated booklet "Treatment of Golf Courses and Sports Grounds" Free on request.

Carters
TESTED SEEDS LTD

GOLF COURSE ARCHITECTS
AND
GRASS SEED SPECIALISTS

RAYNES PARK, LONDON, S.W.20



Junior Division (12 to 24).

1st Prize ("Patisson" Trophy and Gold Watch, C. Garnett, 141.

2nd Prize (President's Cup and Dinner Service), D. J. Singleton, 143.

3rd Prize ("May's" Cup and Barometer), O. P. Jones, 144.

4th Prize (Golf Bag), W. Machin, 147.

5th Prize (Fish Servers), E. R. James, 153.

6th Prize (Travel Clock), T. Kirkley, 153.

7th Prize (Coffee Percolator), F. W. Ford, 157.

8th Prize (Table Mats), W. J. Kingston, 158.
(Golf Balls), H. W. James, 158.

The "Allan Taylor" Cup. 18 Holes Medal.

1st Prize (Allan Taylor Cup and Picnic Set), J. M. Johnstone, 68.

2nd Prize (Verdone Cup and Canteen of Cutlery), D. Gray, 68.

3rd Prize (Blanket), J. L. C. Noakes, 68.

4th Prize (Glass Bowl), D. H. Major, 70.

We are indebted to the following who have kindly contributed to our Prize Fund:—

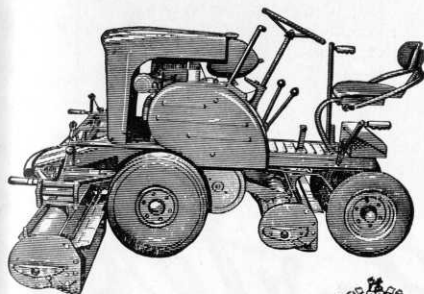
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For sportsgrounds, small parks, golf courses, roadside verges. 7' 2" power driven cutting units. Reaches far under bushes and other normally inaccessible areas. 24" turning circle. Model for mowing steeper embankments also available.



For further details of this fine machine—
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and Implements

SPECIALIST DISTRIBUTORS AND AUTHORISED REPAIR AGENTS FOR RANSOMES LAWN MOWERS

AUTOMATIC IRRIGATION SCHEME HANDED OVER AT HANDSWORTH

The first fully automatic irrigation scheme to be installed on a golf course in the United Kingdom was formally handed over on Monday, 26th July.

During a short ceremony at Handsworth Golf Club, Birmingham, club officials were presented with a brochure to mark the occasion and sprinklers on various greens were demonstrated.

In thanking British Overhead for the brochure, which describes the scheme in detail and includes plans of the layout, Mr Millward referred to the speed with which the scheme had been installed.

Also present at the event were Mr Carl Bretherton, club president, and Mr A. Darbyshire, chairman.



Sprinklers being demonstrated on the sixth green.

Issued on behalf of British Overhead Irrigation Ltd., Shepperton, Middlesex, by Agroup Limited, General Buildings, 5 Church Road, Royal Tunbridge Wells, Kent (Telephone: Tunbridge Wells 25202/3).

On behalf of British Overhead Irrigation Ltd. of Shepperton, Middlesex, one of the Wright Rain Group of companies, which installed the scheme, the general manager, Mr W. D. Hawthorne, presented the brochure to Mr P. F. Millward, club captain.

The installation will help to solve three problems—shortage of staff, the increasing cost of watering greens . . . and complaints from neighbours.

During the four summer months approximately one-third of the time of

R. C. CRAIG

AND CO. LTD.

SPECIALISTS IN THE REPAIR AND
MAINTENANCE OF ALL TYPES OF MOWERS

★ Agents for: RANSOMES, SIMS &
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★ GANG MOWERS FOR HIRE

We will gladly call on you to advise on your grass cutting equipment or arrange demonstrations. Ring us now.

★

**153 Arch Stamford Brook
Station, LONDON, W.6.**

RIVERSIDE 5415

four men will be saved by its introduction.

The previous method of watering was by 12½ h.p. diesel-driven pump taking water from a stream with rubber hoses and sprinklers which had to be moved manually. An attempt had been made to water the greens during the night to avoid inconveniencing the golfers during the day, but this brought complaints about the noise of the engine.

The system automatically waters the greens according to a pre-determined programme set upon an electric sequence controller in the greenkeeper's office. Provision has been made for the inclusion of tee watering at a later date.

The head greenkeeper can plan a programme which will water all or some of the greens with the amount of water each one requires, and the frequency of watering can be varied from every night to once a week. Operation of the pump is also automatic, although manual operation is available for special requirements. Twelve thousand yards of rigid PVC underground mains and 5,500 yards of electric cable were used for the scheme.

Water is now taken from the edge of a lake on the course, the source of water being higher than the pump, whereas formerly it had to be lifted 6 ft from the stream. This has allowed the use of a 5 h.p. electrically-driven centrifugal flooded suction pump for distributing water to the greens.

Round the perimeter of each green are four "pop-up" sprinklers operating simultaneously through a remotely-controlled valve.

The cylindrical sprinklers are installed in the turf with their flat tops slightly below ground level to allow maintenance operations to be carried out without interference. When water is switched on, pressure raises the sprinklers which each apply water to a pre-determined segment of the green. When the water is turned off, the sprinklers drop back into the ground.

Thus, precise, regular watering will benefit the greens at Handsworth and the staff will be free to attend to other tasks. Watering will take place at night so that club members are not inconvenienced on the course, and the quiet electric pump will not disturb neighbours.

A HEAD GROUNDSMAN

required

IN PETERBOROUGH

He will be responsible to the General Secretary of the Sports Club for the administration of seventeen acres of Sports Ground including two cricket pitches, three hard tennis courts, one hockey and one rugby pitch, two football pitches and two bowling greens.

He will have two groundsmen to assist him in his duties. Attractive wages and conditions of employment will be given for this appointment.

Applications should be sent to—
K. J. GERRARD, Personnel Manager,



BAKER PERKINS LIMITED

Westwood Works, Peterborough

NATIONAL ASSOCIATION OF
GROUNDSMEN

20th ANNUAL EXHIBITION—
HURLINGTON

6th and 7th October 1965
F. W. BERK & CO. LTD.
Stand 54

The Stand of F. W. Berk & Co. Ltd., which this year occupies an open, island position, will feature three entirely new products—a Turf Fungicide, and two types of Turf Weedkiller—in addition to displaying the established range of turf treatments, pest killers and plastic hoses. A technical competition will be run which can be entered on site and for which there will be a prize of £50.

applied when symptoms appear in the case of Dollar Spot. Healthy grass growth should be maintained through the spring and summer in order to assist in obtaining complete control, but vigorous autumn growth should be avoided as this is a condition which encourages Fusarium Patch.

A major feature of this new fungicide is its very low cost. One 1 lb. tin is sufficient to treat an average golf green of 600 square yards and costs only 13s. 6d. It can be dissolved for application in liquid form at the rate of 1 oz./2 gallons/40 sq. yds., or can be applied dry, mixed with sand or finely divided soil at the rate of 1 oz./14 lbs./40 sq. yds. A detailed information sheet on Berk Turf Fungicide will be available on the Stand.



The Turf Fungicide contains the equivalent of 2½% Mercury, and gives excellent control of Fusarium Patch (*F. nivale*) and Dollar Spot (*Sclerotinia Homeocarpa*). Treatment of the turf for Fusarium should be in the form of monthly applications of Berk Fungicide, starting in April and continuing to mid-summer, and re-starting in late August until late October. The Fungicide is

The two Turf Weedkillers are further additions to the already comprehensive range of Berk Turf treatment. The "Super" version is based on C.M.M.P.—Mecoprop—and controls clover, yarrow, pearlwort and other deep rooted and persistent weeds, including daisies and plantains. One gallon treats 3,200 sq. yds. for 52s. 6d. "Standard" is

Continued: Page 12



Berk Autumn

of turf treatments for busy

NEW

Turf Fungicide



Fusarium Patch

This is both a preventive measure and a cure. Berk Turf Fungicide gives excellent control over Fusarium Patch and Dollar Spot—at very low cost. A 600 sq. yd. golf green requires only 15 oz. of the material which costs less than 13/6. It can be applied either as a spray or a powder in late summer and the treatment should be repeated at least twice at monthly intervals. Because it is non-abrasive it cannot damage spraying equipment and, provided that the machines are washed out after use, it cannot cause corrosion.

Berk Turf Fungicide is available in 1 lb. or 7 lb. tins.

Turf Weedkiller-Super

Contains Mecoprop and controls Clover, Yarrow, Pearlwort and deep-rooted and persistent weeds as well as Daisies and Plantains, etc. 1 gallon treats 3,200 sq. yds.

Turf Weedkiller-Standard

Contains 2,4D and controls most shallow-rooted and broad leaved weeds. 1 gallon treats 6,400 sq. yds.

Moss Control

Berk Moss Control compounds are based on mercury—this is present in an insoluble and harmless form. Mercury not only kills moss but prevents subsequent growth—it can control moss for up to three years. Three compounds are available: the choice depends on the individual requirements and the time of the year.

M.T.S. (Mercurized Turf Sand)

This is applied at 4 oz. per square yard from early spring to late summer. It kills moss immediately, reduces weed population and, because it contains a quick-acting nitrogen fertilizer, stimulates grass growth.

Moss Killer

This is applied at 4 oz. per square yard at any time of the year but especially prior to normal autumn treatments. Moss Killer does not contain a grass stimulant but gives rapid control over moss.

Moss Eradicant

A special formulation to control the following crop of moss while killing the immediate crop gradually—so there is no disfigurement from dead moss.

Hints on Moss Control

1. Moss will always invade and colonise neglected turf.
2. Do not rely on raking alone to remove moss. This spreads moss spores and fragments which can re-infest the site. Always use a moss killer in conjunction with raking.
3. Correct turf management should always be practised. After using a moss killer, the factors responsible for the appearance of moss should be removed.
4. Some common causes for the appearance of moss are: *Poor drainage and aeration. *Bare patches. *Over-rolling and compaction. *Acid and undernourished soils. *Persistent close mowing.

Range

groundsmen and greenkeepers

Wormkiller

20% Chlordane Wormkiller (Granular)

Applied at 80 lb. per acre, this form of Chlordane is particularly useful where grass is kept long or the sward is thick, as on well kept greens.

25% Chlordane Wormkiller (Liquid)

Supplex Chlordane kills worms underground and kills leatherjackets, ants and chafer grubs. It is cheap and easy to apply—calling for very little watering and minimum labour. Best applied in warm, showery weather during autumn or spring when worms are most active and near the surface.

Slug Pellets

A metaldehyde-based slug and snail killer in a newly-formulated pellet, similar in appearance to the old, but breaking down more slowly when wet. Suitable for broadcasting or spot application.

Technical Service

Berk will gladly send you a technical representative. Please either call him direct or 'phone Head Office, or your nearest Berk branch office listed below.

Area Representatives

South and South-East England:

Mr. G. B. Pearce, 84 Church Lane, Rickmansworth, Hertfordshire. Telephone: Rickmansworth 76503.

North of Thames to the Wash:

Mr. T. H. G. Dickson, 12 Valentines Drive, Ipswich Road, Colchester, Essex.

Head Office:

Berk House, P.O. Box 500, 8 Baker Street, London W.1. Telephone: HUNter 6688, Ext. 415.

Branch and Subsidiary Offices (Phones)

Belfast 20978

Glasgow, Douglas 8338

Swansea 71491

Manchester, Central 6996

Dublin 63514.

Guide to quantities required for Sports Grounds

Ground	Area (sq. yd.)	Turf Fungicide (Spray or Dry)	Weedkiller (Pints) Super Standard	Moss Control Compounds	25% Chlordane Wormkiller
Tennis Court and surrounds	800	1 lb. 4 oz.	2 1	1 3/4 cwt.	7 pints
Hockey Pitch	6,000	9 lb. 6 oz.	15 7 1/2	—	6 gallons
Cricket Square	900	1 lb. 6 1/2 oz.	2 1/2 1 1/8	2 cwt.	1 gallon
Golf Green	Average 600	15 oz.	1 1/2 3/4	1 1/2 cwt.	6 pints
Bowling Green	1,764	2 lb. 12 oz.	4 1/2 2 1/2	4 cwt.	15 pints

F. W. Berk & Co Ltd, Berk House, 8 Baker Street, London W.1. Tel: HUNter 6688

**See us on Stand 54 at
the N.A.G. Exhibition
Hurlingham, Oct. 6 & 7**

TA 2980



based on 2.4D selective hormone weed-killer, and controls most shallow rooted and broad leaved weeds. One gallon treats 6,400 sq. yds. for 31s. 6d.

Berk will be showing their complete range of mercury based Moss Control Compounds. Mercurised Turf Sand, for application in spring and summer, kills moss and weeds and stimulates grass growth, especially over bare patches. Moss Killer contains no grass stimulant, but gives an immediate control of moss. It is therefore the ideal autumn treatment, although it may be applied at any time of year. Moss Eradicant controls the following crop of moss without destroying the present growth, thus leaving no bare patches. Berk also supply Lawn Sand which is not a mercurised preparation, but which does inhibit moss and broad leaved weeds and is an efficient fertiliser and conditioner.

“Thrive”—recently acquired by Berk—is an organic based all-purpose fertiliser for use throughout the growing season. It is in pellet form, and therefore clean to handle and easy to apply. It is available in bags of 14 lb., 28 lb., and 56 lb.

Berk Chlordane Wormkiller, is available in either liquid or granular form. It kills worms, leather jackets, ants and chafer grubs underground, and so no sweeping up is required. It should be applied in the warm showery weather of autumn and spring when worms are most active. The granular version is

particularly suited to areas where the sward is very thick, such as on golf and bowling greens. It has been noted in some instances with a thick sward that the grains tend to lie on or near the soil, whereas the liquid droplets may remain on the blades of grass and the chlordane evaporate before having a chance to be effective.

Tricoflex is a plastic hose of unusual strength. It is really flexible, resistant to scuffing and abrasion, and tested to a maximum working pressure of 100 lbs./sq. in. The strength is derived from its triple construction: a knitted synthetic fibre reinforcing jacket lying between inner and outer plastic layers. Three bores are available—15 mm., 20 mm., and 25 mm. (approx. $\frac{1}{2}$ ", $\frac{3}{4}$ ", 1").

F. W. Berk & Co. Ltd., Berk House, 8 Baker Street, London, W.1.

PERISCOPE FOR GOLF COURSE

A Periscope has been installed on the dog-legged eighth hole at Hillsborough Golf Club, Sheffield, so that golfers can avoid hitting one another with their drives. A rise in the ground obscures vision from the tee.

Now golfers can look through the 3 ft. long periscope mounted on a 5 ft. pole.

Mr J. Shanks, professional at this club for nearly 35 years, said: “It’s the first permanent periscope I have seen on a course. There should be no need to shout ‘fore’ in future”.



HON. SECRETARY'S NOTES

I have received a letter from Mrs Bretherton thanking the Association for the beautiful bouquet of flowers presented to her on your behalf.

And another from the Editor . . .

My wife and I would like to thank all of you for the splendid presents which were given to us at Whitley Bay on the eve of our 25th Wedding Anniversary and just before the Annual General Meeting. This item was not on the Agenda which I had been given and, as can be imagined, gave us both the most agreeable surprise.

My wife is delighted with the handbag because it is brown and leather and large, while the pocket size wireless set will accompany me most happily on my travels. It even has an extra speaker into which it slides when home-based. As if these were not already enough, we have the combined pleasure of the electric spit roaster to make the Sunday joint and many other things still more appetising.

The kind thoughts which inspired these gifts will double the pleasure of using them as they did that of a happy occasion. We are extremely grateful and not a little overwhelmed.

FRED HAWTREE.

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BRITISH GOLF GREENKEEPERS' ASSOCIATION

Annual Report 1965

Administration

We congratulate our Chairman, Mr H. E. Sheppard on a very successful year of Office, which we should appreciate must have been most difficult owing to the unfortunate death of his wife, and our most sincere sympathy and thanks are expressed to Mr Sheppard.

We would offer sincere congratulations to Mr J. Simpson who will succeed Mr Sheppard for 1965/66.

The Annual Draw for last year was again a financial success, and although the final returns did not quite reach the 1963 figure, our thanks are due to all members for their efforts. The Executive Committee, in their wisdom, had agreed to change the prize allocation for the current year, as they were of the opinion that a larger top prize would be a greater incentive for people to purchase tickets.

Our thanks are due to the R. and A. for their kindness in allocating passes for the Open Championship. Though small in number we are sure that those who were fortunate enough to receive them were most appreciative.

It will be interesting to members to know that the Wage Scale Survey with its recommendations has been sent to many Golf Clubs who have made inquiries to the Hon. Secretary for information on this subject.

The Apprenticeship Scheme is moving ahead very steadily, and it would seem that the opportunities offered to young men interested in greenkeeping is reaping a reward. Twenty-eight apprentices have already signed on the dotted line, and a further 11 Deeds have been sent out by the Council for completion.

Membership

The figures given by Sections at the end of the year showed our membership to be in the region of 680, an increase of 65 over last year. It is most gratifying that our numbers have increased to such an extent, particularly in view of the increase in membership fees.

Annual Tournament

The 47th Annual Tournament was held at Weston-super-Mare last August, and although the entry was not so large as one might hope for, a most successful meeting was enjoyed. Our thanks must be offered to the Secretary and his staff for their efforts on our behalf. We would also once again express our sincere thanks for all the generous donations and prizes presented for the occasion.

Sections

Section activities were again much in evidence, with Tournaments, Lectures and visits of interest, and our sincere thanks are due to Secretaries and their Committees for all the arrangements made, and the co-operation of firms and organisations who have helped to make these arrangements possible.

The British Golf Greenkeeper

Once again we must express our sincere thanks to the Hon. Editor of our Journal. There was a change of printers in the early part of this year, which unfortunately did cause some delay in the publication date for a time, but it will be appreciated that this was unavoidable with the change over, which was quite an undertaking for the editorial staff. Thanks are again due to Section Secretaries for their local news, and to all those who submitted articles for publication.

Benevolent Fund

It is gratifying to note that there has only been two calls on the Benevolent Fund during the year under review.

We are very appreciative of any donations that are forthcoming for this Fund, and it is of interest to know that one Golf Club has made an Annual contribution of approximately £10 for the last 20 years, by holding an annual competition among its members, from which all the entry fees go to make up this contribution. A wonderful idea for which we are very thankful. Who knows, perhaps other Clubs might consider this a worthy venture.

F. G. Hawtree Memorial Fund

The facilities offered by this Fund have again been accepted with enthusiasm. Three members were sent to the Sports Turf Research Institute during the year under review, and all placings for the coming Autumn and the Spring of 1966 have been applied for. Once again the Trustees of the Fund would express their appreciation to Clubs who offer financial assistance for their greenkeepers when attending a course of instruction.

Sports Turf Research Institute

Under the directorship of Mr J. R. Escritt, the Sports Turf Research Institute has again offered every assistance to our members, and their unflinching interest in all our activities is very much appreciated.

In Memoriam

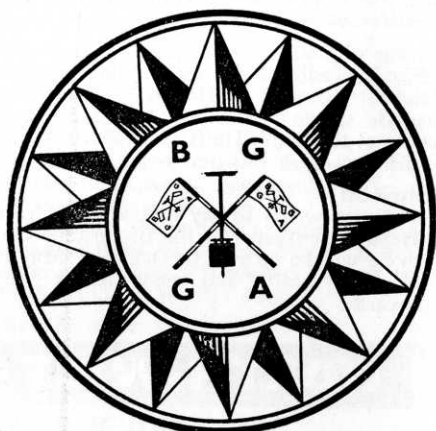
We record with sorrow the death of the following members announced in the *British Golf Greenkeeper* since our last report.

Messrs J. O'Gorman, E. G. Sharrett, H. Warburton, C. A. Tydeman, G. A. Jones, Tom Chamberlain, F. C. Neal and D. H. Rees.

By order of the Executive Committee.

Chairman: H. E. Sheppard.
Hon. Secretary: C. H. Dix.

News



from the Sections

EAST MIDLAND

(Derby G.C.)
Chairman:
F. FROST

By S. Fretter
Hon. Secretary:
Portland Lodge Farm
Portland Road
Kirby Muxloe, Leicester

Autumn Tournament

WILL ALL MEMBERS WISHING TO enter in the Autumn Tournament at Birstall Golf Club on September 29th, please notify me by September 14th, so that catering arrangements can be made.

Warning

Members please note that practice on the greens the day of the competition is not allowed. Penalty disqualification.

SHEFFIELD

Chairman:
G. HERRINGTON
(Lindrick)

By J. J. Dearlove
Hon. Secretary:
63 Langsett Avenue
Sheffield, 6

Annual Summer Tournament

I WAS UNABLE TO PLAY IN OR attend this popular tournament which was played over the Hallamshire course by kind permission of the captain and committee. I am indebted to our treasurer, Ron Whitehead, for a complete detailed report, he informs me that it was a very successful day despite the indifferent weather and that some of the scoring was of a very good standard over these rather difficult 6371 yards. He also tells me that the evening meal was paid for by our president, Mr Shardlow, who is also the current captain of the Hallamshire club. The prizes were presented by Mr B. Elliott who invited each and all to partake in a drink.

The prize list had an unusual look about it with some names we don't usually associ-

ate with leading scores. Jack Baxby led the field with a 36 holes net score of 145, Jim Strothard was second on 148, just pipping Alan Goldthorpe with the last 18 holes deciding; on 150 came Alan Spencer followed by Des Thompson who, incidentally, won the 36 holes gross cup with a score of 152. A new name to go on to the 18 hole nett cup is that of Bob Ledbury with a last round score of 67 nett. All cards were returned by all the 23 players.

We thank the following donors for once again kindly sending prizes, W. Hargreaves & Co., Sutton & Sons, Rigby Taylors, Fisons Ltd., Carters Ltd., Thomas Green Ltd., Ransomes Sims & Jefferies Ltd., Fearnco Ltd. and Mr A. Shardlow. We also thank Mr Croft and Mr Mountain for their support and acting as score recorders and to Mr Elliott for presenting the prizes.

Headquarters Sweep

Another good effort by some of our members in disposing of a good number of tickets and it's a pleasure to report that the total amount exceeded £23. I feel that the organisers would like me to pass on their thanks to the following for their usual reliable support, J. Baxby, P. Booker, F. Croft, A. Goldthorpe, G. Herrington, H. Herrington, E. Peat, D. Sadler, J. Strothard, R. Whitehead, T. Stringer and H. Gillespie.

Match v. Northern Section

This will be played at the Scarcroft Golf Club near Leeds and the coach will leave the Brunsworth Hotel, Sheffield, at 9 a.m. on Tuesday, 14th September.

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NORTH-EAST

Chairman:
J. SIMPSON
(Ponteland G.C.)

By D. Earsman
Hon. Secretary:
Arcot Hall Cottage
Dudley
Newcastle-on-Tyne, 3

A.G.M.

OUR ANNUAL GENERAL MEETING was held on the 17th July at the Duke of Wellington Hotel, Newcastle, 18 members being present.

Our Chairman, J. Simpson, welcomed the members and thanked them for their support during the last year.

Officers elected for the ensuing year: *President*—L. A. Jones; *Vice-Presidents*—C. H. Storey, K. B. Hood, J. V. Todd, F.R.C.S., A. Harrison, T. Oliver; *Chairman*—J. Simpson; *Vice-Chairman*—R. H. Nicholson; *Committee*—T. Nutman, L. Lowery, R. Raine, N. Fraser, T. Kirkley, R. Derham, W. Harker, H. Sommerville, T. Oliver; *Hon. Auditors*—Messrs Martin, Hilton, Blakey; *Hon. Secretary and Treasurer*—D. A. Earsman.

Our Chairman on behalf of the Committee and Members, thanked our Hon. Auditors for their work with the accounts, L. Lowery for his help with the cards at our Golf Competitions and our Vice-Chairman R. H. Nicholson who was, owing to illness unable to attend, for his work with the sweep tickets. Members present were sorry to learn of the illness, and wish him a speedy recovery.

Autumn Competition

Our Autumn Competition will be held on Thursday, 23rd September at the Ravensworth Golf Club, by kind permission of their Committee.

New Members

We are pleased to welcome to our section J. Carss and G. K. Sharpe and hope they will enjoy their stay among us.

New Appointment

J. Taylor, formerly assistant at Arcot Hall Golf Club, has been appointed Head Greenkeeper at the City of Newcastle Golf Club, I am sure we all wish him well in his new position.

SOUTHERN

Chairman:
W. E. MOORE
(Romford)

By W. Mason
Hon. Secretary:
18 Albert Road, Hendon, N.W.4
Tel.: SUNnyhill 0245

Winter Meeting

OUR FIRST WINTER MEETING WILL take place in the cinema of Whitebreads Social and Sports Club, Chiswell Street, London, E.C.1, on Wednesday, 20th October at 6.30 p.m. This will be a Quiz and as usual will be in the hands of our Vice-Chairman J. K. Glass. We do hope you will come along and keep him busy with plenty

of questions. As it is a Club will members who arrive early please mention the B.G.G.A. and give their names should they wish to go into the Club Bar. Permission has been given for us to do so.

Change of Club

Frank Ford who for many years has been Head Greenkeeper at Hampstead Golf Club has now taken up the post as Head Greenkeeper at the South Herts Golf Club. We all wish him well in this new appointment.

Retirement

A. Crane writes to say that after 50 years as Head Greenkeeper at the Broadstone Golf Club he will be retiring in October. May he enjoy good health and many happy years afterwards.

NORTH-WEST

Chairman:
D. PATE
(Royal Birkdale G.C.)

By H. M. Walsh
Hon. Secretary:
78 Hadfield Street,
Oldham, Lancs.

Lectures

I am pleased to inform members that arrangements for a series of winter lectures are well in hand, the first will take place at the Garrick Hotel, Fountain Street, Manchester, on the 11th October, a Monday.

The speaker will be Mr Castell of Fisons Ltd., his subject—Selective Weed-Killing, and

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will commence promptly at 7.30 p.m. so let us have a good attendance and arrive early.

I will be able to give members a complete list of speakers and dates in the October issue of the journal—a further five I hope.

Autumn Tournament

Here is a further reminder that our Autumn Tournament takes place on 14th September at the Manchester Golf Club, Hopwood Park, Rochdale Road, Middleton, Nr. Manchester. This is a good time to meet old friends to exchange news and views—please let us have a good entry.

Whilst on the subject of attendances I feel I must express my disappointment at the very poor attendance of members of our section at the A.G.M. Whitley Bay.

New Member

We welcome to the section Lawrence Graeme Nall-Smith of the Hillside Golf Club, Southport, and hope he has a long and pleasant stay with us.

WELSH

By **S. A. Tucker**

Chairman:
M. GEDDES
(Royal Porthcawl)

Hon. Secretary:
36 Clase Road
Morriston
Swansea, Glam.

Autumn Meeting

PLEASE DO NOT FORGET TO LET ME know if you are coming to the meeting at Neath Golf Club on Wednesday, 29th September as I have to notify the Steward of the number and catering needed. I want your entries by the 22nd September please.

Subscriptions

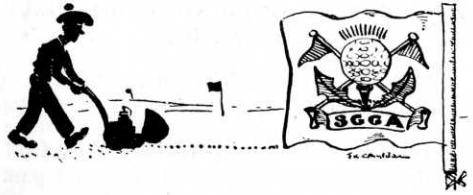
As mentioned in the last issue of the journal we would like all members to pay up their subscriptions before the above competition. Please send them to M. Geddes, 23 Fenton Place, Porthcawl, Glam.

BERK TURF TREATMENTS

A new pocket guide to Berk Turf Treatments and Horticultural Chemicals has been prepared by F. W. Berk & Co. Ltd. for the use of professional groundsmen. The main pages gives details of Berk products and recommendations for their use. A flap in the back cover contains the Company's current price list. Write to: F. W. Berk & Co. Ltd., Berk House, 8 Baker Street, London, W.1.

MISCELLANEOUS

PROFESSIONALS AND GREENKEEPERS having stocks of used golf balls contact Sparkbrook Golf Ball Co., 295 Highgate Road, Stoney Lane, Birmingham, with a view to filling export orders.



THE SCOTTISH GOLF GREENKEEPERS ASSOCIATION

Chairman:

D. L. MACDIARMID
Royal Burgess Golfing Society
Barnton, Edinburgh, 4

General Secretary:

R. B. MOFFATT
71 Kelton Street, Glasgow, E.2

SCOTTISH EAST SECTION

THE ANNUAL GENERAL MEETING will be held at Longniddry Golf Club on Thursday, 7th October, at 6 p.m. A competition for prizes will be played in the afternoon prior to the A.G.M., starting at 1 p.m., followed by a meal at 5 p.m. After the meeting, prizes won at Craigmiller will be presented. Members intending to be present please inform the secretary before 2nd October.



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THE BRITISH GOLF GREENKEEPERS' ASSOCIATION

MINUTES OF THE 48th ANNUAL GENERAL MEETING

held at the Clubhouse, Whitley Bay Golf Club, on Monday, 9th August 1965, at 2 p.m.

The Chairman opened the Meeting at which 67 members were present, and invited the President, Mr Carl Bretherton, to take the Chair.

Mr Bretherton made reference to those who had died during the year, as named in the Annual Report, and asked all present to stand for a few moments in silent tribute.

The Minutes of the last Annual General Meeting were read, confirmed and signed.

Annual Report

This was read by the Hon. Secretary and its adoption was proposed by Mr C. A. Moore and seconded by Mr F. W. Ford.

Financial Statement

Copies of the accounts as presented had been circulated among the members. The Hon. Treasurer reported a satisfactory state of affairs, with a small improvement in balances. The adoption of the accounts was proposed by Mr Murray Shaw and seconded by Mr E. W. Folkes.

Executive Committee Report

The Tournament Committee had been elected to consist of Messrs Sheppard, Simpson, Cashmore, G. Herrington and Folkes, three to form a quorum.

The Hon. Secretary stated that he had been advised by the Midland Section that Mr F. Cashmore had been nominated as Vice-Chairman, which information was greeted with general enthusiasm.

The venue for the 1966 Tournament had been agreed, and the Committee were pleased to advise that the Little Aston Golf Club, Sutton Coldfield, had been kind enough to offer the courtesy of their Club and Course on the 8th, 9th and 10th August. Thanks were expressed to Mr Bretherton who had been instrumental in making the original inquiry.

Election of Officers

President:

It was proposed by Mr Walsh and seconded by Mr Crabtree that Mr Carl Bretherton be re-elected President of the Association. Carried unanimously. Mr Bretherton thanked the members, and said he would be pleased to continue in office.

Vice-Presidents:

It was proposed by Mr Payne and seconded by Mr Kingston that the Vice-Presidents as listed in the Journal, be re-elected. Carried.

Chairman:

It was proposed by Mr Jones and seconded by Mr Walsh that the Vice-Chairman, Mr J. Simpson be elected as Chairman. Carried unanimously. Before vacating the Chair, Mr H. Sheppard thanked his officers and the members for the generous support they had given him during his year of office. Mr Simpson took the Chair and expressed his appreciation of the honour bestowed upon him by his election, and trusted he would be a worthy successor to Mr Sheppard. He then presented a Tankard to the retiring Chairman as a small token of appreciation for his efforts during the year, and Mr Sheppard spoke his thanks for the gift.

Vice-Chairman:

It was proposed by Mr Crabtree and seconded by Mr Drewitt that Mr F. Cashmore be elected Vice-Chairman. Carried unanimously. Mr Cashmore expressed his thanks for the support given to his election, and hoped to fill the office to everybody's satisfaction.

Hon. Secretary and Treasurer:

It was proposed by Mr Kingston and seconded by Mr Moore that Mr C. H. Dix be re-elected Hon. Secretary and Treasurer. Carried unanimously. Mr Dix thanked the members for their confidence in his re-election.

Executive Committee:

It was proposed by Mr Kingston and seconded by Mr Jones that the Executive Committee should be elected as nominated by the Sections. Carried.

Hon. Auditors:

It was proposed by Mr Crabtree and seconded by Mr Walsh that Messrs Smallfield Rawlins & Co. be re-elected as the Hon. Auditors. Carried.

Hon. Solicitor:

It was proposed by Mr Herrington and seconded by Mr Shaw that Mr R. A. Beck be re-appointed Solicitor for the ensuing year. Carried.

Propositions from the North-West Section

(a) "That in the interest of this Association, its unity and professional status, we seek affiliation to a recognised trade union organisation. (i.e., The Transport and General Workers.)"

Strong opposition was expressed against this proposition on the grounds generally that it could not work. Messrs Sheppard, Stobbs, Jones, Pugh and Crabtree spoke strongly against the proposition. After some further discussion it was accepted that some reasons for the proposals were justified in the interests of lower paid greenkeepers, but that the proposition was not the best method to improve any such conditions. Alternatively, it was proposed by Mr Kingston and seconded by Mr Stobbs, that copies of the Wage Scale Survey should be supplied to the Secretary of the North-West Section, and the Section would endeavour to advise Golf Clubs of this Survey where it was felt con-

ditions could be improved for the greenkeeper. This proposal met with general approval, and the North-West representatives were in complete agreement.

(b) "That the Sponsors of P.G.A. and other National Tournaments be approached to support our prize lists, any support given to be shared equally between Headquarters National Tournament and the Sections."

The Hon. Treasurer said he was opposed to this proposition as stated, particularly to the idea of appealing for funds for the Headquarters National Tournament. He thought this was totally unnecessary, as the Annual Tournament was already strongly supported from many sources, including the P.G.A. If it was thought that something should be done on these lines he would like to see the proposition to read for any support given to be shared between the Benevolent Fund and the Sections. After some discussion it was proposed by Mr Kingston and seconded by Mr Stobbs that this alteration to the proposition should be accepted. Carried.

(c) "That the title of Golf Course Superintendent be designated to the man in charge of the Course (i.e. as at present the Head Greenkeeper)."

After some discussion and views expressed a vote was taken, whereby the proposition was defeated by a large majority.

Journal

The Hon. Editor expressed general satisfaction with the Journal. Financially it was just holding its own, with somewhat brighter prospects for the future. He regretted some recent delay in publication owing to a change of printers, but this he thought would soon be overcome. He was still looking for articles for publication from members, and suggested there was plenty of scope for members to express their views on the various subjects which had been under discussion at this meeting.

Any other business

It was proposed by Mr Moore and seconded by Mr Walsh that an Association Flag should be obtained for use at the Annual Tournament. Carried unanimously. The Hon. Secretary was requested to deal with the matter with a view to having one available for 1966.

Mr Crabtree requested that a vote of thanks be entered in the minutes in appreciation of the work carried out by the Hon. Secretary and Treasurer. Carried.

Mr Jones offered congratulations to Mr G. Hitchcock, Head Greenkeeper at Coombe Hill Golf Club, on an article in the press by Henry Cotton which gave unstinted praise to Mr Hitchcock for his services to his Club.

The Meeting closed with a vote of thanks to the Chair by Mr F. W. Hawtree.

SITUATIONS VACANT

WANTED IMMEDIATELY AT Milford Haven, Pembs. Golf Club (9 holes), Greenkeeper/Professional with wife to act as stewardess. Joint salary £600 per annum. Excellent modern, centrally heated accommodation available rent and rates free. Thriving Golf Shop to be taken over. Stewardess to cater on own profit basis. Further details from Hon. Secretary.

TADMARTON HEATH GOLF Club, Banbury. Require qualified Head Greenkeeper. Only applicants with first class experience considered. Housing could be arranged. Attractive salary offered. Reply to Secretary, Clubhouse, Wigginton Heath, Banbury, Oxon.

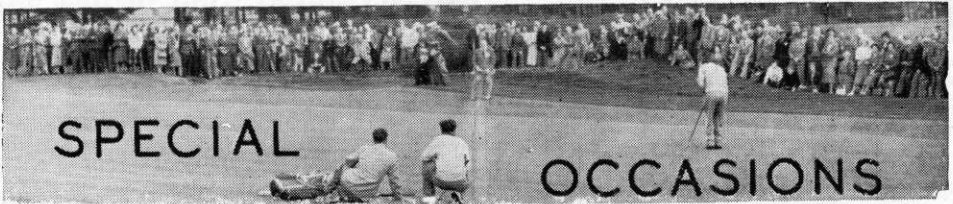
EXPERIENCED GREENKEEPER required, capable of managing Ground Staff. Free accommodation (new house). Apply to Secretary, Brocton Hall Golf Club, Brocton, Stafford, giving full particulars.

MILL HILL GOLF CLUB require an Assistant Greenkeeper. Average earnings around £675, plus rent free flat and free light and heat. Apply to Secretary, 100 Barnet Way, London, N.W.7, giving full particulars of past experience.

ASSISTANT GREENKEEPER REQUIRED. Up to £15 per week, according to experience. Apply Secretary, Hampstead Golf Club, Winnington Road, London, N.2.

FOR HIRE

SISIS AUTOTURFMAN Aerator for hire, £25 per week—Do it yourself. J. B Burnell, 2 Clarence Road, Eaglescliffe, Stockton on Tees.



SEPTEMBER	12th	Autumn Tournament, Southern Section, Moor Park Golf Club.
	14th	Northern Section, Annual Match v. Sheffield Section, Scarcroft Golf Club.
	14th	North-West Section, Autumn Meeting, Manchester Golf Club.
	16th	Midland Section, Autumn Tournament, Bloxwich Golf Club.
	23rd	North-East Section, Autumn Competition, Ravensworth Golf Club.
	29th	East Midland Section, Autumn Tournament, Birstall Golf Club.
	29th	Welsh Section, Autumn Tournament, Neath Golf Club.
OCTOBER	7th	S.G.G.A. East Section, A.G.M. and Competition, Longniddry Golf Club.
	7th	S.G.G.A. West Section, Autumn Meeting, Pollock.
	11th	North-West Section, Lecture, Garrick Hotel.
	19th	Northern Section, Autumn Tournament, Leeds Golf Club.
	20th	Southern Section, Quiz, Whitbread's Social and Sports Club.
	29th	Midland Section, Annual Dinner, King's Head Hotel, Bearwood.

Mrs. Greenkeeper's Own Corner

with Ann Mawson

Anyone who enjoys pickles and chutneys can make, between September and November, a large enough variety of pickles, etc., to fill the store-cupboard for the whole year.

Pickled Onions

Choose small onions or shallots. To make the peeling easier do it under cold water. Soak in brine (2 oz. salt to 1 pint of water) for 24 hours, then drain and wash well. Pack into jars and pour the vinegar over, add a few pickling spice. Seal and store.

Mustard American Pickle

- No. 1 — 3 lbs. pickling onions.
- No. 2 — 2 large onions.
- No. 3 — 2 large cauliflowers.
- No. 4 — $\frac{1}{2}$ cup of cornflower.
- No. 5 — 3 tablespoons of mustard.
- No. 6 — $\frac{1}{4}$ teaspoonful of Turmeric powder.
- No. 7 — $1\frac{1}{4}$ teacups of sugar.
- No. 8 — a pinch of Cayenne pepper.
- No. 9 — a quart of vinegar.

Make a brine of 1 gallon water and $\frac{3}{4}$ lb. salt, pour over the vegetables, let them stand for 24 hours. Then heat enough to scald it, drain.

Mix Nos. 4, 5, 6 and 8 with enough cold vinegar to make a smooth paste then add sugar and the rest of the vinegar. Cook this mixture until it thickens and is smooth, *turning all the time*, add the vegetables and cook until well heated through. Bottle while hot.

Date and Apple Chutney

1 lb. apples, 1 lb. dates, 1 lb. onions, 4 oz. seeded raisins, $\frac{1}{2}$ lb. treacle (golden syrup), $\frac{1}{2}$ teaspoonful Cayenne pepper, 2 oz. salt, 1 pint of vinegar, 6 cloves, 1 teaspoonful of allspice.

Peel and core the apples, stone the dates if necessary, peel the onions and put all these ingredients through a mincer, together with raisins (or sultanas). Put the remaining ingredients in a pan and bring to the boil. Add the minced fruit etc., and simmer gently until the chutney is of a thick consistency. Pot and cover at once.

— Until October . . .

B.G.G.A. ANNUAL DRAW 1965 RESULT SHEET

“News or the World” Match Play Championship, Walton Heath 30th August-4th September

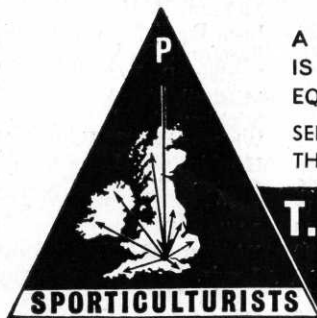
Smart, D.	00642	Morrison, A. K.	01278	Ward, E. W.	24521
Douglas, M. C.	10695	Gilbride, F.	23573	Law, V. R.	13721
Poole, D. S.	16299	Gillies, A. C.	22349	Ibberson, A.	03987
Blaze, P. M.	04270	MacDonald, K. A.	01716	Lambert, R. G.	11699
Greene, C.	10818	Lloyd, G.	24051	Beard, D.	09795
Moffitt, R. L.	07463	Morris, F.	22585	Taylor, G.	24178
Godfrey, J. A.	13970	Hunt, S. A.	13286	Henning, H. R.	12847
Olde, J.	10369	Horton, T.	15579	Cogle, E.	15480
Green, J. M.	03816	Tutt, P.	22626	West, W. F.	13025
Smithson, M.	21424	Maisey, G. R.	01336	Common, J.	21629
Fisher, T. A.	23231	Boobyer, F. S.	04000	Thomas, D. C.	02792
Hunt, B. J.	12765	Coles, N. C.	07472	Talbot, D.	09017
Donald, R.	10693	Kemp, R. H.	12019	Jacklin, A.	21934
Connelly, I.	24219	Firkins, W. R.	13174	Jackson, J.	01531
Flatman, H. G.	01424	King, S. L.	08279	Sunderland, F.	21764
Large, W.	07809	Whitehead, E. R.	12075	White, A.	09037
Sharkey, J.	02181	Plumbridge, M. M. R.	15874	Wilson, G.	10342
Patterson, B. W.	03472	Stirling, J.	05168	Nash, D. A.	20036
Collins, J. P.	03839	O'Connor, C.	06080	Parcell, A. K.	02809
Fidler, R. S.	02789	Murray, S. W. T.	11064	Peel, M.	13860
Gledhill, G.	14749	Little, J. A.	05487	MacDonald, A. M.	11521
Proudfoot, B. J.	20341	Brocq, T. le	10923	Pinner, T.	10722
Gregson, M. E.	08602	Cotton, G. A.	23946	Bryant, S. A.	01534
Burroughs, G.	11425	Campbell, A.	22406	Jones, G.	02600
Faulkner, M.	03906	Simmonds, A. B.	23568	Panton, J.	07451
Butler, D.	13974	Marshall, J. F. G.	09518	Bembridge, M.	11758
Roberts, G. W.	15378	Lait, D. E.	23596	Lowles, A. J.	11107
Morris, N. B.	02936	Strachan, D.	15960	Dalziel, D.	21312
Adams, J.	20773	Caygill, G. A.	22636	Paterson, W. R.	00617
Jones, E. T.	03242	Aitken, G. J.	15954	Colenso, C.	15010
Rees, D. J.	22644	Wilkshire, J. W.	01607	Coop, A. B.	10315
Lynch, N. C.	06662	Evans, W. W.	21315	Huggett, B. G. C.	21311
Gray, D.	05032	Jones, I. P.	07600	Parton, G.	10551
Dawson, W.	02197	Buckner, A. J.	04127	Burns, J. R.	24267
Moore, A.	21235	Henderson, M.	10906	Rees, A.	10552
McGhee, J. A.	23615	Woodman, S.	12011	Gill, P. E.	06375
Allen, T. W.	06197	Brown, R. A.	08900	Hitchcock, J.	15374
Jones, P.	01587	Lewis, D.	01990	Craik, D. C.	11277
Ingham, M.	04215	Black, A.	10926	Amitage, J.	12139
DeFoy, C. B.	22753	Notley, M. J.	01837	McNaughton, T.	13635
Martin, J.	08944	Waites, B. J.	07543	Barnes, B. W.	07542
Emery, R. H.	13458	Hutchinson, B.	10707	McAlister, J.	06799
Brodbeck, P.	11372	Clark, I.	03989	Roberts, D. L.	22101
Leslie, J. T.	15021	Stainer, N.	03216	King, A. G.	06240
Sutton, N.	16407	Butler, P. J.	24503	Howett, R. L.	07069
Sewell, D. N.	02986	Beattie, D. T.	01949	Tomlinson, G. D.	09602
Robinson, A. D.	02372	Davies, B. N.	07577	MacDonald, I. D.	04093
Wiseman, R. F.	02739	Busson, J. J.	15845	Weetman, H.	03412
Paton, A. W. M.	21625	MacDonald, N.	10811	Adwick, K. W. C.	02635
Tomlinson, R.	02572	Hill, F.	21863	Evans, G.	21653
Carter, W. H.	17477	Low, G. W.	10233	Aram, B. R.	11331
Bowen, L.	21602	Brown, E. C.	04271	Jackson, E. H.	15004
Clark, A. E.	16987	Hopper, P. A.	01998	Lee, P. F.	10193
Warren, K. T.	23276	Lyle, W. B.	23436	Bamford, B. J.	03924
Muscroft, H. W.	05433	MacDonald, J. A.	01952	Loxley, P. E.	07541
Davenport, R. R. W.	07059	Snell, D.	06780	Mitchell, A.	09682
Davies, R. J.	22356	Murphy, M.	01636	Stickley, A. F.	12815
Will, G.	13840	Ellis, J. H.	15927	Whitcombe, E. E.	07530
Huggett, G. W.	06312	McHardy, W.	21654	Hopkins, A. J.	21816
Philip, J.	08523	Hector, W.	06966	Gaston, S.	23299
Lanyon, W. R.	06354	Lund, H. H.	23517	Platts, L.	12812
Tomlinson, W.	13108	Urquhart, H. T.	15639	Miller, D.	09030
Mace, R.	07544	Bousfield, K.	16188	Webster, D. K.	09169
Melville, D. L.	15565	Green, P.	15308	Lewis, P.	03824
Wolstenholme, G. B.	15628	Hamilton, J.	22612	Lewis, H.	06423
Kinsella, J.	21263	Pennington, C. G.	01900	Cunningham, G.	03419
Hoyle, M. T.	11109	Tomita, P.	07657	Hannan, C. J.	01621
Ward, C. H.	11173	Cole, M. E.	04276	Wood, P. F.	02697
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