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

<table>
<thead>
<tr>
<th>Ground</th>
<th>Area (sq. yd.)</th>
<th>Turf Fungicide (Spray or Dry)</th>
<th>Weedkiller Super Standard (Pints)</th>
<th>Moss Control Compounds</th>
<th>25% Chlordane Wormkiller</th>
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</thead>
<tbody>
<tr>
<td>Tennis Court and surrounds</td>
<td>800</td>
<td>1 lb. 4 oz.</td>
<td>2 1</td>
<td>1½ cwt.</td>
<td>7 pints</td>
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<tr>
<td>Hockey Pitch</td>
<td>6,000</td>
<td>9 lb. 6 oz.</td>
<td>15 7½</td>
<td>2 cwt.</td>
<td>6 gallons</td>
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<tr>
<td>Cricket Square</td>
<td>900</td>
<td>1 lb. 6½ oz.</td>
<td>2½ 1</td>
<td>1 gallon</td>
<td>1 gallon</td>
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<tr>
<td>Golf Green</td>
<td>Average 600</td>
<td>15 oz.</td>
<td>1½ ½</td>
<td>1½ cwt.</td>
<td>6 pints</td>
</tr>
<tr>
<td>Bowling Green</td>
<td>1,764</td>
<td>2 lb. 12 oz.</td>
<td>4½ 2½</td>
<td>4 cwt.</td>
<td>15 pints</td>
</tr>
</tbody>
</table>

See us on Stand 54 at the N.A.G. Exhibition Hurlingham, Oct. 6 & 7
POINTS ON URBAN GREENKEEPING
by E. M. Baylis, N.D.A., Advisory Officer,
The Sports Turf Research Institute

A VERY large proportion of golf clubs in this country are situated in and around the big cities and towns. This is obviously due to the demand for golfing facilities within easy reach of the large populations, but from the greenkeepers' point of view many of the courses are too near the towns for comfort! Course maintenance under any circumstances is not without its particular local problems, but anyone thinking of leaving a pleasantly remote course and taking up a post at one of these suburban clubs should be aware, at least, of some of the local peculiarities which he is likely to encounter.

The popularity of golf still appears to be increasing year by year, and as a general rule new members have one aim in life, that being to play as much golf as they possibly can. When the greater proportion of club members live only a short distance from the course, this means they are out for a few holes during every spare hour. The very heavy play to which these courses are subjected means additional work for the green staff, and also there is greater interference with the maintenance operations due to play.

Greater wear and tear
Tees wear out rapidly at short holes in particular, and since it is necessary to spread wear as much as possible there is often need for a programme of building new tees or extending existing ones. Very few clubs are able to say they have all the teeing space they require. Approaches, too, need a lot of work put into them if reasonable putting surfaces are to be obtained when these areas are used to accommodate winter frost holes. Managing a course well under these conditions is a real test of the head greenkeeper's ability to utilise the labour he has available, and complete all the seasonal tasks in good time relating each operation to the usual busy club calendar.

Whilst dealing with the subject of labour, good, trustworthy staff are very difficult to find since men who might be really interested in their work find the temptation of more comfortable working conditions and sometimes larger pay packets which can be found in local industry too great for them.

Despoilers!
Better recreation facilities than ever before are provided these days for children and youths but, despite this, there are a few of the younger generation who prefer to "have fun" trespassing on golf courses. Activities range from malicious damage of one sort or another on greens (e.g. using them as bicycle racing tracks) to relatively harmless but infuriating pranks such as playing Cowboys and Indians with flag poles which are sometimes found firmly lodged high in a tree. Tee boxes disappear in large numbers but are seldom taken off the course, and can usually be found if time can be spent searching thoroughly enough in ditches and bushes.

Although most of the situations mentioned so far can, to some extent, occur on any course, a factor which is fairly strictly confined to built up areas is atmospheric pollution. At its worst, this can result in closely mown turf suffering so badly from the effects of toxic substances in the atmosphere that the grass cover becomes very weak and may even be killed out. A more usual state of affairs is for the soil to become acid fairly quickly and consequently the need for occasional liming is increased. There is only one accurate method of determining just when to apply lime and in what quantity. That is to have the soil tested at regular intervals. In addition, the fertiliser dressings require to be carefully balanced, but provided management is on the correct lines very good quality turf usually results since bent and
Fescue do well where the soils lean towards acidity.

Where bent grows strongly fibre can form in the turf base very quickly, especially when creeping bent is present to any marked degree. Fibre build-up is, moreover, encouraged by the acid conditions and if all the troubles which excessively fibrous greens can bring are to be avoided extra attention has to be paid to mechanical treatment, e.g. both scarification and aeration.

An efficient watering system is an essential tool these days but unfortunately many of the water supplies are inadequate at the present time. Countless clubs lament the fact that over the years their mains water pressure gets lower and lower as each new factory or housing development scheme in the area grows, whilst the Water Board have difficulty in keeping up with the increased demands, and may forbid watering during droughts! A private supply is a useful alternative but is seldom available in an urban area. Even if a stream or well can be utilised it is worthwhile having the water analysed to ensure that it does not contain undesirable substances before it is used on the greens. Otherwise there is, unfortunately, very little that can be done to solve the problem.

Another commodity often in short supply is good quality light loam top soil. When sufficient soil cannot be found on the course one is very fortunate indeed if good top soil can be purchased at reasonable cost, and usually every possible source of supply has to be explored before suitable material is found. If, however, a golden opportunity presents itself then a really large stock should be laid by. Whether in town or country, very few people are fortunate enough to find farmyard manure for compost making these days.

If, after considering these points you feel obsessed with the difficulties, don’t forget that many advantages also are to be gained from living near the large towns — easy access to fertiliser firms, machinery agents, etc., and not forgetting schools, shops and public transport.

---

**"SISIS" ROTORAKE and AUTO-ROTORAKE**

**TRADE MARKS**

Vertical Turf Fibre Cutters

For many years Professional Groundsmen have raked and mown grass in an attempt to reduce turf fibre. The "SISIS" ROTORAKE is designed to achieve this — the cutting tines rotating upwards, sever the unwanted fibre and prostrate growth below the surface.

- **REMOVE EXCESS FIBRE**
- **REDUCE TRAILING WEEDS**
- **ELIMINATE SURFACE NAP**
- **MAKE MOWING MORE EFFICIENT**

The "SISIS" ROTORAKE is made in 14" and 20" Models and the Cutting reel is driven with 4-stroke engine.

The "SISIS" AUTO-ROTORAKE is fully motorised both in respect of the fibre cutting reel and the forward overground traverse. A Heavy Duty Machine.

**Demonstrations arranged**

**Send for details:**

"SISIS" Patent EQUIPMENT, W. HARGREAVES & Co. Ltd., MACCLESFIELD - 6363 - CHESHIRE
SITUATIONS VACANT

ASSISTANT / GREENKEEPER REQUIRED. Good wages and conditions. Apply: Secretary, Shirley Park Golf Club, Addiscombe Road, Croydon.

LITTLESTONE GOLF CLUB, NEW Romney, Kent, require Head Greenkeeper. Experience of seaside course preferred. Apply Secretary.

HEAD GREENKEEPER REQUIRED for 18-hole course in S.W. London. Top class salary for the right man. Apply for interview with details of experience to the Secretary, Malden Golf Club, Traps Lane, New Malden, Surrey.


HEAD GREENKEEPER required for 8-hole golf course. Must be fully experienced to take complete charge. Apply to Dr Ryan, Denton Golf Club Ltd., Manchester Road, Denton, Manchester. Please state full particulars.

CORRESPONDENCE

“Greenfields,”
Howard Crescent,
Sr. Beaconsfield,
Bucks.

Dear Sir,

The other day while playing in our Autumn Tournament at Moor Park, one of my fellow greenkeepers “holed out in one”.

Don't you think that he should be sent a “Hole-in-One-Tie” out of funds, and in all future tournaments this should be carried out?

I should like members' views on this.

Sincerely yours,

R. H. Plain.
Again congratulations to top sellers, Tom Oliver and Peter Crombie, who each sold a hundred books.

Tom and Peter are both 71 years young. I hope the younger members will beat that total next year.

I wish to thank our Vice-Chairman, Mr R. Nicholson, for dealing with the Sweep Tickets. Members will be sorry to hear he has been in hospital again. I am sure you will all join with me in wishing him a speedy recovery.

New Vice-President

We are pleased to welcome to the section, Mr I. T. Johnstone, who has been elected a new Vice-President.
96—24—72; second was G. Woodward 75—3—72, electric clock; and third was H. Drewitt 89—13—76, holdall. Our Chairman G. Hart proposed a vote of thanks to the Olton Golf Club for allowing us the use of their course and clubhouse. Their kindness is very much appreciated.

Proposal
It has been suggested that a Four Ball Alliance should be arranged during the winter, open to members and any Vice-President who would like to play. Would anyone interested in taking part please let me know as soon as possible to enable the committee to decide if there is enough interest for them to arrange this match.

Outing
A visit has been arranged to the works of Messrs Lloyds of Letchworth on Wednesday, 20th October. They would like us to arrive about 11 a.m. for coffee followed by a tour of the works. We will then be entertained to lunch at about 12.30. After lunch we will proceed to a nearby sports ground where all their machines will be set out for members to try for themselves. Tea about 4 p.m. and then we shall be free to return home. The committee have decided that the cost of the coach will be defrayed from section funds. Please will all members who want to avail themselves of this opportunity for an interesting and instructive day out let me know at once.

Annual Dinner
Our Annual Dinner is at the King Head Hotel, Bearwood, on Friday, 29th October. Anyone wishing to attend and not having their tickets please contact me at once as the last year or so we have sold out and I do not want to disappoint anyone.

Handicaps
The committee have revised the handicap of E. Walford to 16 from 19 and fixed the handicap of J. E. Twigger at 14.

Subscriptions
There are still several members whose subscriptions are outstanding. I should be pleased to hear from them at once.

EAST MIDLAND

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

Hon. Secretary:

By S. Fretter

Portland Lodge Farm:

Kirby Muxloe, Leicester

A.G.M
WOULD ALL MEMBERS PLEASE note that the Annual General Meeting will be held at the Pineapple Hotel, Leicester (opposite St. Margaret’s Bus Station), on Wednesday, 27th October 1965, at 7 p.m. prompt. As this is my first meeting as Secretary I should like to see all members and Vice-Presidents present, so that I can meet them personally.

KEEP’S

CHLORDANE

CONCENTRATED WORMKILLERS
also kill LEATHER-JACKETS

★ SELECTIVE WEED KILLERS
★ GRANULAR FERTILISERS
★ AUTUMN GRASS FERTILISER

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NORTHERN

By J. Parker

Chairman:
S. BAILES 8 Goit Stock Terr., Harden
Bingley, Yorks.

Hon. Secretary:

By S. Fretter

Portland Lodge Farm:

Kirby Muxloe, Leicester

Autumn Tournament
MEMBERS ARE REMINDED THAT the closing date for entries for the Autumn Tournament to be played on Tuesday, 19th October, over the course of the Leeds Golf Club, Cobble Hall, is Monday, 11th October. For members travelling from Leeds by bus, these leave West Yorkshire Bus Station, Vicar Lane: Knaresboro 38, Wetherby 39, Red Hall Avenue 29 (to Elemete Lane), up Elemete Lane ¼ mile, entrance on left. Lunch will be at 12.30 p.m.

Apprentice Scheme
Arrangements have been made for Mr B. M. Wood, Secretary to the Joint Council for Golf Greenkeeper Apprenticeship, to give a talk to members on the scheme. This will be held at the Old Queen’s Head, Main Street, Bingley, on Tuesday, 9th November, at 7.15 p.m. This will give members an opportunity to raise any matter on the scheme with which they are not clear.

Film Show
It is hoped to arrange a film show of one of the Major 1964 Golf Tournaments, towards the end of November. Details of venue, etc., will be published later.
New Member

We welcome to the section the following new member: Mr C. Geddes, 186 Harrogate Road, Leeds, 7 (Moor Allerton Golf Club).

News Items

I would be much obliged if any members have items of news which they think would be of interest to other members, if they would forward them to me so that they can be published in the journal.

By H. M. Walsh
Chairman:
D. Pate
(Royal Birkdale G.C.)
Hon. Secretary:
78 Hadfield Street, Oldham, Lanes.

Autumn Tournament

OUR AUTUMN TOURNAMENT, HELD at the Manchester Golf Club, Hopwood Park, was, I think, very successful. I would like to thank on behalf of members, the Captain and Council for their kindness in offering us the courtesy of their course and club facilities for the day.

Our prize list was quite a handsome one consisting of 15 prizes and for such generosity we owe thanks to the Captain Mr E. B. Ramsbottom, the Greens Chairman, Mr A. Cordell, Mr W. Gibbons, Mr C. Kivlehan the Professional, Mr T. Guy of Ormskirk Golf Club, Mr W. Kinsey our President, Messrs Ransomes, Sims & Jefferies, H. Pattisson & Co. Ltd., Stewarts & Co., Edinburgh, En-Tout-Cas, W. Orrell & Son, Charles H. Pugh Ltd. (Atco), W. Hargreaves & Co., May & Baker Ltd., Henderson & Son.

Results of the 27 hole Competition were as follows:—

The Hunter Cup and £5 voucher, Best Gross, W. Bridges 115.
The Ransome Cup and Tankard, Best Net, O. P. Jones 104.
2nd Best Net, F. Halstead (silver cigarette case) 113.
3rd Best Net, H. Smith (Ronson lighter) 113 1/2.
4th Best Net, W. Bridges (golf bag) 113 1/2.
5th Best Net, H. M. Walsh (statuette) 116.
6th Best Net, R. Fielding (holdall) 116 1/2.
7th Best Net, M. Ormerod (holdall) 116 1/2.
8th Best Net, K. Gardiner (silver pencil) 116 1/2.
9th Best Net, J. Catlow (tankard) 117.
10th Best Net, A. Warhurst (bottle whisky) 117 1/2.
11th Best Net, B. Ellis (bottle whisky) 118.
12th Best Net, E. Macavoy (golf balls) 119.
13th Best Net, H. Wade (golf balls) 120 1/2.
14th Best Net, D. Pate (cigarettes) 121.

The Coming of Age Cup (Over 50's), O. P. Jones.

The visitors prize was played for over 18 holes in the afternoon and was won by Mr Williams with a net score of 74 (bottle of whisky).

The prizes were presented by the Captain of Manchester Golf Club, who was introduced to members by our Chairman, Mr D. Pate, who expressed his thanks and appreciation to the Captain and Club, indoor and outdoor staff, donors of prizes and to Messrs Wilcock and Barlow of Wilcock & Sons Ltd., and our colleague Mr W. Earnshaw, for their help in running the competition. He also extended a welcome to Mr E. Brassington, one of our Vice-Presidents, and to Mr Ryan, Vice-Captain of Romiley Golf Club.

The Captain gave a very warm and cordial welcome to the greenkeepers of the North-West Section and expressed the hope that if we ever wished to play there again, he was sure the Council of Manchester Golf Club would be most pleased to welcome us. I think we can safely say that a most enjoyable day was had by all.

Winter Lectures

The first of our winter lectures will be held at the Garrick Hotel, Fountain Street, Manchester, on Monday, 11th October, at 7.30 p.m. prompt, and will be given by Mr Castell of Fisons. Please let us have a good attendance for what I am sure will be an interesting evening. Other dates for your diary: Monday, 8th November, Mr Finch of Maxicrop; 6th December, Mr Ratcliffe of Rigby Taylors Ltd.; 11th January 1966, H. J. Lidgate, S.T.R.I., Bingley; 1st March, J. D. Joss, S.T.R.I., Bingley. Our Annual Golf Course Equipment

H. PATTISSON & CO. LTD.
STANMORE • MIDDLESEX
Telephone GRImsdyke 4171/4172
Trip will be to Charles H. Pugh (Atco) of Birmingham where we will be able to see the latest in greenkeeping machinery. The coach will leave Exchange Station at 8 a.m. prompt on Tuesday, 19th October. There are not many seats left so send in your names as soon as possible.

New Members
We welcome to the section the following new members: R. Reynolds of Howstrake Golf Club and J. Robinson of Ulverston Golf Club.

Quiz
I have had a letter from the secretary of Whitbreads Sports and Social Club regarding our meeting on Wednesday, 20th October. This will be a quiz with Mr J. K. Glass in the chair, time 6.30 p.m. I have been asked, if possible, to let the secretary know the names of the members who will be coming. He can then make them temporary members for the evening with access to the bar, etc. Directions for finding Whitbreads are given in the sketch.

Moor Park
The weather was perfect and everyone had a most enjoyable day. A list of the winners is printed herewith. The Captain of the club, Mr Fisher, presented the prizes, and said how pleased they were to have us, and hoped we would come again. The Captain of Ealing Golf Club replied on behalf of the visitors. Our Chairman, Mr W. E. Moore, responded by saying what a wonderful welcome we had been given, and on our behalf expressed thanks to all concerned for the excellent condition of both courses, the admirable catering facilities and the work done by representatives of the trade who attended to the score cards and starting.

1st Morning (West) — Mr M. Singleton and Mr Shilling, 43 (sandwich set and knives).
1st Morning (High) — Mr C. Diebel and Mr R. Diebel, 40 (frypan and clock) (tie — last 9).
1st Afternoon (West) — Mr J. K. Glass and Mr B. Herne, 41 (frypan and clock).
1st Afternoon (High) — Mr P. Staines and Mr Saint, 41 (sandwich set and knives) (last 9).

1st 36 — glasses — Mr L. Miller and Mr Fisher, 82.
2nd 36 — meat dish and carvers — Mr A. Miller and Mr M. Gates, 81.
3rd 36 — casserole — Mr Neville and Mr Edwards, 78.
4th 36 — holdalls — Mr P. Ainsworth and Mr Carpenter, 78.
5th 36 — cloth and napkins — Mr Foulkes and Mr Aldridge.

The tournament was a four ball better ball stableford (36 holes).
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

THE FOLLOWING COURSES ARE being run for greenkeepers during the winter:

**Edinburgh:**—The Edinburgh and East of Scotland School of Agriculture, West Mains Road, Edinburgh, 9. The course starts on Tuesday, 12th October, at 7 p.m. Students are requested to enrol and pay fees between 6.30 and 7 p.m., 12th October. Fee for the course £1 1s. 0d.

**Glasgow:**—The Glasgow and West of Scotland College of Agriculture, 6 Blytheswood Square, Glasgow, C.2. The course starts on Wednesday, 13th October.

**Dundee:**—Kingsway Technical College, Old Glamis Road, Dundee. Anyone interested should contact the Head of Department, Mr J. M. Carroll.

Winter Lectures
The following have been arranged for the dates below.

**Glasgow:**—9th November, 14th December, 18th January and 8th February.

**Dundee:**—10th November, 15th December, 19th January and 9th February.

**Edinburgh:**—11th November, 16th December, 20th January and 10th February.

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.

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

HON. SECRETARY’S NOTES—1965 DRAW ACCOUNT

<table>
<thead>
<tr>
<th>£ s. d.</th>
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<td>Balance in hand -</td>
<td>200 8 6</td>
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**£339 12 6**
Mrs Greenkeeper’s Own Corner

with Ann Mawson

I always make my mincemeat in October, then by Christmas it is just nice and mature. You require 1 lb. currants — 1 lb. raisins — ½ lb. candied orange, lemon and citron peel — 1 lb. suet — 1 lb. apples — 1 lb. demerara sugar — 1 oz. mixed spice — grated rind of one lemon — grated rind of one orange — ¼ pint sherry — 1 lb. sultanas — ½ lb. finely minced almonds — juice of one lemon and one orange.

Stone and mince the raisins or use seedless raisins — mince apples, candied peel, almonds and sultanas. Mix these with currants, sugar, spice, lemon and orange rind, and shredded suet. Mix well, then add the sherry, lemon and orange juice. This mixture should be put in jars, covered and kept at least six weeks — but the longer the better. This quantity makes about 8 lb. mincemeat.

Now is the time to make your Christmas pudding — this is a very old recipe: ¼ lb. plain flour — 6 oz. currants — ½ lb. finely minced suet — ½ lb. brown sugar — ¼ teaspoon allspice — ¼ teaspoon baking powder — 1 oz. ground almonds — pinch salt — a little brandy, old ale or milk — ½ lb. bread-crumbs — ¼ lb. Valencia raisins — ¼ of a grated nutmeg — the grated rind of one lemon — 4 eggs — 3 oz. mixed peel. Wash and dry all the fruit. Put all the ingredients into a bowl, mix thoroughly with the eggs well beaten and enough brandy, old ale or milk to moisten the whole. Pour into two well buttered basins, cover with a butter paper and steam for eight hours. Store in a cool place and resteam for four hours when required. Serve with brandy sauce: 1 oz. butter — 2 tablespoons sugar — a little lemon rind thinly peeled — 1 oz. cornflour — ¼ pint milk — 1 glass brandy. Melt butter in an enamelled pan, stir in flour, add milk, sugar and lemon rind and stir until smooth, boil for five minutes, add the brandy, reheat and strain.

Until November. . . .