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* Separate land-roll and cylinder clutches which allow machine to continue cutting with land-roll drive disengaged. Cutting unit disengages when machine is being self-driven.
* Accurately machined front and land-roll to avoid damage to the finest turf.
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* Powered transporting wheels can be fitted instantly.
* Adjustable handles.
* Up to 2,000 sq. yards cut in 1 hour.

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Lancashire Golf Club recommends HI-GROW and SEAGROW to all Golf Clubs.

First-hand testimony to the results achieved with HI-GROW and SEAGROW. The secretary writes:

“We consider that Hi-Grow and Seagrow fertilisers are better than anything on the market at the present time. We would have no hesitation at all in recommending Hi-Grow for use on the fairways throughout the growing season. Seagrow has been used on newly made and old established greens and this has produced marvellous results. Our greens have received praise from everyone because of the marvellous results, and the beautiful colour which has been maintained throughout the winter. We have no hesitation in recommending your fertilisers to all golf clubs”.

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**PEAKS OF WIGAN**

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GOLF course watering systems are seldom demonstrated in aeroplanes. Mr. Tim Hilton, Managing Director of British Overhead Irrigation Ltd., contrived, nevertheless, to show us the workings of one of his automatic systems last week in a Viscount on the way to Germany.

The “pop-up” sprinkler came apart in five seconds with the aid of a table knife borrowed from Lufthansa, though a screwdriver and pliers are normally recommended. Dismantling is occasionally necessary to clear the built-in filter surrounding the gears. A small screw adjusts the angle of the sector to be watered from 30° to 330°, the radius of throw being about 40 feet. With three or four pop-ups on a ring main round each green, the whole putting area is covered comfortably—all from black plastic cylinders, four inches long, two inches in diameter, weighing under eight ounces.

Next we saw the remote control valve, which can be operated from the club-house through a \( \frac{1}{4} \) in hydraulic control tube laid with the mains. The master controller—size again measured in inches—controls nine pairs of greens, watering them in rotation for specified periods at pre-set times, up to a fourteen-day cycle. Thus any quantity of water up to the limit of the supply can be applied daily (or nightly), every other day, weekly and so on up to a fortnight. The cycle then repeats itself. If rain comes, the whole system shuts down.

Draining off in winter can also be arranged automatically in low sections of the mains by valves which open when pressure is shut off.

Incidentally, the additional cost of fully automated green watering when installing a new system can be as low as 20%.
QUESTIONS FREQUENTLY ASKED

Typical questions and typical answers in the United States will interest green-keepers here and may give a new angle on treatment. This selection comes from the South Western office of the U.S.G.A. Green Section, one of the five regional offices covering the North American continent. It is reprinted with grateful acknowledgments to the U.S.G.A. Golf Journal.

When should overseeding be done in bentgrass greens which are highly infested with Poa annua?

The purpose of overseeding with additional bentgrass is to increase the relative population of bentgrass to Poa annua. Normally, seeding would be done either in the fall or spring. Seeding during these two seasons should not be discredited or discontinued. However, it is felt that much can be gained from summer overseeding. The procedure followed has been either to power spike in two or three directions to open the turf and permit more seed to contact the soil or to use a verticut with the reel disengaged to accomplish the same effect.

Should a summer aerification be warranted, such an overseeding could be made concurrently. Inasmuch as a very close observation is essential during the summer and especially if the greens are aerified, the possibility of losing seedlings due to drying is reduced greatly.

The rate to seed should be in the range of two or three pounds of seed per 1,000 square feet. While this programme has helped most of those who have tried it, it does not represent a cure-all for Poa annua. Rather it is possibly another step in management to discourage Poa annua.

Is any benefit derived from winter fertilisation of fairway turf?

Virginia tests have demonstrated that winter applications of fertiliser, even on steep roadside slopes, have had little leaching loss. USDA tests have shown that such feeding has an unexpectedly important influence—there is a great deal of winter root growth even though grass tops are frozen stiff.

An experiment at the Lawn Institute in Marysville, Ohio, with the application of high rates of urea to frozen bluegrass sod in the middle of January resulted in just as attractive a spring turf as did equal amounts of fertiliser applied in March. Also, the effects of this mid-winter feeding continued through the summer in the darker green colour of the experimental area. At least one beneficial effect was that there was no surge of spring growth that aggravates spring mowing.

What kind of topdressing mixture is best for greens?

Once a topsoil mixture is selected and the green constructed, every effort should be made to keep the subsequent applications of topsoil as nearly like the original as possible. The best way to go about this is to exercise great care in selecting the original topsoil mixture so that there will be no need for a change later on.

Much of the guesswork can be taken out of the selection of the proper soil mixture with a physical analysis. Such an analysis measures the porosity, permeability, and moisture retention of a soil mixture. These are important characteristics of any soil mixture; and it follows that it would be much better to test these characteristics before the final selection of a soil mixture is made than to select the mixture, incorporate it in a green, and then have it turn out to be undesirable.

If it should become necessary to change the structure of soil under turf, every effort should be made to avoid any type of layering. At least one method which has been successful is the incorporation of amendments into the soil by placing them in the aerifier holes after a
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FOR THE
FAIRWAYS

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The Triple Gang illustrated costs £270

The 20' Special 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
thorough aerification. If this method does not work, complete renovation may be the only answer.

Why does young grass in many greens show a nitrogen deficiency even when greater rates of N are applied than normally required?

In most instances when this occurs, raw or readily decomposable organic matter was used in the mixture. For the most part, organic matter breakdown is dependent upon soil microbes. While their growth responds to temperature changes, they, like the grass, require nutrients for growth; and when an organic material is available, they seem to prosper. Inasmuch as the bodies of the microbes are rich in proteins (which are about 6.25 per cent nitrogen), much of the nitrogen in the soil is tied up in their bodies as they grow.

The microbes consume the available substrate (the rough organic in this case) until their population becomes too great for it to support. At that point, death of the older and weaker of the microbes begins to occur until an equilibrium in population is established. It is during the period prior to the establishment of the equilibrium that the deficiency develops; during this time supplemental applications of an inorganic and readily available source of nitrogen are warranted.

While much nitrogen can be tied up in proteins and complex nucleo-proteins, later it will become available for turf consumption as those complex compounds are broken down, as described above, and also through chemical decomposition.

The deficiency should not cause alarm but should be expected and its management planned when such sources of organic matter are utilised. It is for this same reason that farmers must fertilize more after a cover crop than when no cover crop was ploughed in prior to planting.

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6
“SISIS 36”—SUPER COULTAS—
Model SCD/36

Messrs. W. Hargreaves & Co. Ltd.,
manufacturers of the well-known
“SISIS” patent Equipment for Turf
Management have introduced a new
precision Fertiliser and Seed Spreader
known as the “SISIS 36” Super Coulta.

The trend of fertiliser manufacturers
is to increase the concentration of
materials, thus requiring a Spreader
which will distribute accurately and
evenly in a full width carpet at the very
low rates demanded. The Super Coulta
has been designed to meet this need with
a unique degree of accuracy and operates
on the well-known Coulta principle,
while incorporating the best design
features of the “SISIS” Truspred.

The material is drawn from the extra
large capacity hopper by a slow moving,
jointless, ribbed, rubber conveyor belt.
Final spread is by means of a full width
rotary brush. A hand controlled clutch
is fitted to stop and start delivery. A
wide range of materials from granular
and powder fertiliser, disease and pest
controls, grass seed and damp or diffi-
cult “clinging” materials can be spread
with precision. Spreading rates are con-
trolled by a tilting hopper which varies
the aperture between the base of the
hopper and the conveyor belt. Rate and
adjustment is carried out by finger-tip
control dials which are simple and posi-
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At the 1962 Exhibition of the National
Association of Groundsmen the 36 Super
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The Super Coulta is designed for
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“SISIS” Model Ref. SCD/36, the
Super Coulta sells for £47 10s. 0d. in-
cluding carriage and packing in crate.
## Events

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<td>AUGUST</td>
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<td>SEPTEMBER</td>
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We invite you to consult our Sports and Advisory Department on any problem connected with the maintenance of Golf Courses, Lawn Tennis Courts, Cricket Squares, Bowling Greens, Sports Grounds and Recreation Grounds.

The 1963 Edition of our illustrated booklet:—

“Treatment of Golf Courses and Sports Grounds”

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NEWS AND NOTES

NEW WORMKILLER
Fisons Horticulture Ltd. are marketing a new liquid wormkiller, formulated from chlorinated camphere.
Worms die in the ground and casting should have ceased in four weeks after application. Leatherjackets are killed too. The effects of one application may persist several years, though, presumably, it is still too early to know just how many.
The material comes in 1, 2, 5 and 45 gallon packs, price and area treated being as follows:

1 gallon £3 10 0 treats 1,210 sq. yds. (¾ acre).
2 gallons £6 15 0 treat 2,420 sq. yds. (¾ acre).
5 gallons £15 12 6 treat 6,050 sq. yds. (1½ acre).
45 gallons £123 15 0 treat 54,450 sq. yds. (11½ acres).

Application may be by high volume sprayer or watering can after appropriate dilution in water.
The name (why did nobody think of it before, or did they?) is WORMICIDE.

N.A.G. FIELD DAY,
MOTSPUR PARK
This year’s Motspur Park Field Day will be held on Wednesday, 3rd April, and Ransomes Sims & Jefferies Ltd. will be there as usual showing and demonstrating a wide selection of their grass cutting machinery.
The 18 in. Auto-Certes machine with its world-wide reputation for giving a superb finish on Golf Greens and other fine grass areas is to be exhibited.
The versatile Multi-Mower will be shown with its choice of cutting heads. The Reelcutter attachment is excellent for cutting banks and grass verges while the 27 in. Rotacutter will tackle grass up to 2 feet tall.
Completing the range of heavy duty mowers will be a selection of Gang Mowers of which Ransomes were the original manufacturers in this country.
The high-quality 18 in. or 20 in. Marquis will be shown. This is used extensively in the upkeep of ornamental lawns.
Ransomes Rotary Mower, the new 18 in. Typhoon Major with its vacuum-lift cutting blades which swing back on the concave disc if an obstruction is met, should receive special attention. It is powered by a 150 c.c. Villiers 4-stroke engine, fitted with oil pump lubrication in the sump.
Another new model on show will be the new 14 in. Ripper Hand Mower; other hand machines on view will be the 12 in. Conquest, 12 in. Ajax and the 16 in. Certes.

SIGN OF THE TIMES
Golf drives out cricket and lawn tennis at Richmond
The Richmond Athletic Association—who own the Richmond golf driving range—have given the four cricket clubs and lawn tennis clubs notice to quit after this summer to make way for an extension of the driving range.
Mr. D. Wheeler, now secretary of the non-profit-making enterprise, explained: “The cricket clubs hardly pay the expense of maintaining their cricket squares, so we are going downhill financially. With business on the driving range booming, we must do this with reluctance. We plan to increase our 12 tees to 20 and install floodlights so during the summer we can play until midnight. A putting green is also planned. With the increased income we will be able to put up a building for the range with changing facilities”.
“The Guardian.”

WARNING
... It may well be that the spring will bring an exceptional crop of weeds, for frost and snow are great breakers of weed dormancy...

Amateur Gardening—9.2.63.
MERSEYSIDE

"... The frost's unrelaxed grip this time has meant that not a ball has been struck in anger or pleasure, outdoors, for the best part of six weeks. And even grimmer for addicts of which Mersey-side has thousands, is the warning by most clubs here that when the thaw comes it will be between ten and fourteen days before greenkeepers will let us play.

These turf-tending experts, always more concerned for the well-being of their beloved greens than with the impatience of members, have left clubs in no doubt that the severity of frost in the ground—in some cases more than twelve inches of it—will make it essential for the ground to be completely thawed out before play is permissible.

This unsuspected postscript delay to the great cold spell will dismay golfers to an even greater extent. Their vexation at being denied a game for so many weeks is assuaged by glances at links patently unfit for anyone save metal monkeys or for anything except skating and ski-ing; to have to sit in clubhouses looking (often through picture windows) at green, but still unplayable, courses will be a much harder thing to bear..."

Leslie Edwards in the Liverpool Post.

FISON'S ENTER AMERICAN MARKET

Mr. G. V. K. Burton, Chairman of Fisons Horticulture Limited, announced on 23rd January that his Company had taken "decisive steps to establish their products in the American Horticultural market". His statement followed Treasury approval of the investment needed by Fisons to secure an 80% share of the equity of the Doggett-Pfeil Company of Springfield, New Jersey, and to provide the working capital necessary to support an extension of its activities. The Company will be renamed Doggett-Fison.
MEMBERS ARE REMINDED THAT the closing date for the return of counterfoils and monies for the Grand National Sweep is Saturday, 16th March. It is hoped that every effort will have been made to make the Sweep a success.

Spring Tournament
The closing date for entries for the Spring Tournament, to be played over the course of the Woodsmere Hall Golf Club on Tuesday, 9th April, is Saturday, 30th March.

January Meeting
Despite the wintry weather, forty members turned up at the White Swan, Leeds, on Tuesday, 15th January, for a film show. The films, presented by Mr. Teddy Foulds, were kindly loaned by Slazengers Ltd. The two films, “Slazenger 279” and “Saving Strokes”, featuring Norman Von Nida, were most interesting and thoroughly enjoyed. A vote of thanks to Mr. Foulds was proposed by our Chairman, Mr. G. Mason, and seconded by Mr. E. Mums.

New Appointment
Mr. J. E. Coyer of Cleckheaton Golf Club has been appointed Head Greenkeeper to the Lincoln Golf Club. I'm sure we all wish him the best of luck in his new position.

AS ALREADY MENTIONED IN THE previous journal, the last of our winter lectures will take place on Wednesday, 13th March, at 6-90 p.m. at the Talbot Restaurant. This will be a Quiz with Mr. G. K. Glass as the Question Master, as usual. We look forward to a full house with plenty of problems to be discussed after this very long spell of bad weather.

Arrangements have been made for both our Spring and Autumn Tournaments. The first will take place at the Thorndon Park Golf Club, Essex, on Wednesday, 15th May. Final details will be given in the April journal.

All older members of the Association will be sorry to hear of the death of Mr. Hugh MacLean, who leaves a widow, one son and three daughters. He was Head Greenkeeper at the Sunningdale Golf Club for forty years and, previous to that, was foreman to Willie Parke, who laid out the old course in 1899. On his retirement, his son, Jimmy took over and is still carrying on with the good work. I have written on behalf of the Southern Section and expressed our deepest sympathy.

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Visit to S.T.R.I.

ON TUESDAY, 23rd APRIL, A VISIT to the Sports Turf Research Institute has been arranged. A bus is engaged to leave Newcastle at 8.30 a.m. It can be arranged to pick up en route at convenient places. We shall also welcome members of Golf Club Committees to accompany their Greenkeeper. To enable me to make final arrangements, will members please let me know at their earliest convenience if they are coming and whether accompanied by any of their officials. Lunch and tea will be at the Research Station. Total cost of bus, meals, etc., will be known later. I can thoroughly recommend this visit to all concerned. The officials and staff of the S.T.R.I. are looking forward to meeting us.

I would like to take this opportunity of thanking the Durham County Golf Union Committee for the cheque I received from Mr. W. A. Chrichton, Hon. Treasurer, value £5, as donation to the funds of our Association.

We are very glad to hear that Mr. Allan Harrison is recovering from his illness. We all hope he continues to do so.

Bingley Visit

If it will be more convenient for members of Durham, regarding information for Bingley visit, for seats, please contact Mr. J. L. Lawery, 14 Galloping Green Road, Wrekenton, Gateshead. I have to attend the Infirmary for treatment on 15th February and hope to be back to normal by then.

Spring Meeting

The Spring Meeting to be held at Hartlepool—Mr. Nicholson said he would let the Committee know about a suitable date in May.
NORTH-WEST

By B. Ellis

Hon. Secretary
Romley G.C.

Chairman
T. Brennan
(Wilmslow G.C.)

WE WELCOME TO OUR SECTION Mr. W. Earnshaw, who has taken up the post as Head Greenkeeper to the Davyhulme Park Golf Club. His address is 21 Edgdsbury Avenue, Flixton, Urmston, Manchester.

Owing to the inclement weather conditions on 21st January, the lecture that should have been given by Mr. Clayton was postponed and we hope to fix it for a later date.

24 members attended the visit to Ellis Rees and a very pleasant afternoon was spent. I hope that, by now, those members who were snowed under are about again.

WELSH

By S. A. Tucker

Chairman:
M. Geddes
(Royal Porthcawl)

Hon. Secretary:
36 Clare Road,
Morrison,
Swansea, Glam.

OUR SPRING MEETING WILL BE held at the Dyne Golf Club on Wednesday, 3rd April. I would like all members who intend to come, to inform me not later than Monday, 25th March, as I have to let the stewardess know how many to cater for. Please come early in the day, as we would like to play 27 holes. I hope the weather will be much better than it has been of late, so that members can get in some practice. Those coming by bus should go to the United Welsh Garage by the theatre and take a ticket to Mayals Green, then take the road opposite the bus stop up the hill—about 5 minutes’ walk.

It is with regret that I have to announce the death of Sir Robert Webber, J.P., D.L., a Vice-President of our Association. I am sure his passing will be a great loss to the Association, particularly the Welsh Section, with whom he had been in close contact for many years.

Members will also have noted with regret from the Southern Section Notes, that Mr. Hugh MacLean, who was Head Greenkeeper at Sunningdale Golf Club for forty years, before his retirement, has died and I am sure they would like to join me in expressing their sincere sympathy to his family.

C.H.D.
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For Hand Use or with Overgreen Tractor:
36" SUPER COULTAS (incorporating Rotary Brush)

Brochure from: "SISIS" Patent EQUIPMENT
W. HARGREAVES & CO. LTD.
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The Editor,
The British Golf Greenkeeper.

Dear Sir,

During this exceptional spell of rough weather, I have listened with great interest and, at times, annoyance to the remarks of some members, who think that, because the course is under snow, all the outside staff have to do is to play cards.

I should like to use a small space in the Journal to give these people an insight of what really goes on during hard weather.

Most courses nowadays are equipped (or should be) with good sheds, where the staff can work in all weathers.

With the continued popularity of golf, more materials, especially compost are needed to keep the greens and tees up to the required standard. The average course needs at least 50 tons, which has got to be prepared ready for spring and summer use; it must be realised, to make compost properly takes a lot of time and a spell like this is very helpful.

Then there is the repairing and painting of the boxes, flag poles, seats, etc. Also, the frames of gang mowers must be kept painted, in an effort to stop rusting.

So that at least one hole can be kept playable, all paths leading to the club-house have to be kept clear of snow.

If the weather is not too bad, there is always the job of clearing the bottoms of hedges and lopping off overhead boughs.

This is only a list of the things that must be done, which does not give much time for playing cards.

Yours sincerely,

Jock Glass.

The Cottage,
Thorpe Hall Golf Club,
Thorpe Bay, Essex.
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ENQUIRY BUREAU.—The Editor desires to point out that he will be pleased to answer enquiries from our readers, and forward to them the name and address of the manufacturer or supplier of any particular proprietary article or product used in the construction, maintenance and upkeep of a golf course. Enquiries are coming in from greenkeepers asking for such information. They may, for example, know the trade name of the article or product they wish to purchase, but may not be conversant with the name and address of the actual manufacturer or supplier. The Enquiry Bureau will gladly supply this information, and thus enable the greenkeeper to contact the manufacturer or supplier direct.

TO MANUFACTURERS.—In order that our information may be kept constantly up to date, manufacturers or suppliers are requested to forward their latest trade lists, catalogues, and any other confidential information regarding their products. By so doing the Bureau will be able to function to the mutual benefit of all concerned.

TRADE REVIEWS.—The Editor will be pleased to arrange to devote space in our editorial columns to a review of our advertisers’ products, etc. Will advertisers please forward details for this purpose.
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