The Art of Grass

At Barenbrug we have a tradition of breeding that goes back to the beginning of this century. A skill that we're justifiably proud of.

There is a Barenbrug variety at or near the top of each major list in the STRI/Bingley booklet.

This expertise also extends to our wide range of mixtures each one containing top-rated Barenbrug varieties for optimum performance and flexibility.

Supplying the finest seeds and mixtures is our art.

Creating the masterpiece is yours.
Sprayers for greens and the whole course

Wherever a sprayer is required take the Allman advantage. We specialise in sprayers, and there are tractor mounted, knapsack and pedestrian units available for every task from turf care to roses. We're British based, have a national spare parts service and can offer a specification to match any capital or equipment budget.

Tractor mounted • De-mountable (illustrated) • Knapsack • Pedestrian barrow sprayers • Mistblowers

ALLMAN
E Allman & Company Ltd, Birdham Road, Chichester, West Sussex, PO20 7BT Telephone 01243 512511 Fax 01243 511171

THE GROWING ADVANTAGE OF ALLMAN

Hugh Tilley takes a look at sprayers on the golf course

The requirements of health and safety have made hundreds of sprayers across the country obsolete and forced many clubs to review their spraying arrangements.

Spraying is not a preferred task, partly due to the mystic and concern which surround the whole practice. Nevertheless all clubs have some requirement for applying chemicals such as fungicide, fertiliser, herbicide and iron and perhaps fertilisers and growth stimulators to greens, tees and fairways. Although it is not a preferred task most greenkeepers still wish to keep control of the process and retain the ability to apply materials such as fungicides as necessary with minimum delay.

Thus while there are a number of contract spraying services available these tend to be used for specific tasks such as herbicide treatment of fairways or for specific chemicals which are regarded as more toxic or needing greater precision in application.

While there are many sprayers on the market many are adapted from basic agricultural models. However recently a few manufacturers have studied the amenity market and produced units both for mounting on turf maintenance vehicle and compact tractors which are designed for the golf course. Many golf courses also have pedestrian machines such as the Allen Walkover as well as knapsack or hand held sprayers, however these are mainly seen as tools for spot treatments such as around the clubhouse, walkways or trees and perhaps fertilisers and herbicides or fungicides. Pedestrian machines if equipped with a reasonable width boom would be suitable for a small 9 hole course but we did not find anyone regularly using such a machine, although several admitted having one in their shed.

Another very important “like” is protection loop is only designed to protect against grounding. Another very important “like” is
SPRAY

the easy of mounting and de-
mounting of the unit with four
sturdy legs and although these
are not adjustable (between pin
holes) this was not seen as a
problem. Kerran was happy that
the machine was safe on its legs
even if full - a possibility if the
Cushman broke down. The pump
is driven through a short P.T.O.
shaft which is easy to connect
gives a positive drive in con-
trast to the belt and under chassis
drive Kerran has experienced
with other machines. The Hardi
has a two piston diaphragm
pump, which is considered essen-
tial for use with iron which pro-
vides ample capacity.

Controls are mounted on an
adjustable arm which enable
them to be placed just where the
operator wants them, and they
are easy to operate. Calibration
is simple to carry out, however after
initial calibration rates are now
taken off a chart. Once set the
Cushman maintains its governor
setting well and although there is
some loss of speed when going
up hill this is not considered to be
a problem. Sighting poles are
used to guide the operator and
avoid misses or overlaps. Most
spraying is accomplished using
640 litres per hectare, however
the triple turret nozzle holder
makes altering rates very easy.
Currently Salisbury have the origi-
nal nozzle sets as supplied but
think that it would be more ideal
to have two sets of the most used
ones in place so that the operator
can simply flip one round should it
get blocked when at work.

The unit has, as standard, anti-
drip nozzles, clothing storage box
and clean water tank. Filling is all
through the top, this is relatively
high and narrow so there is a
danger of spillage. Kerran's wish
list for Hardi is for a larger - 400
litre - tank with a wider flatter
profile and a bigger filler. He
commented that uprated axle on
the Cushman could take the extra
weight, and the extra width and
lower profile would give better
rear vision and stability. Another
criticism is the tank contents
gauge which operators find diffi-
cult to read and not very exact
when it comes to part loads. One
problem, which Salisbury have
been told is unique, is that their
tank suction hose has on several
occasions washed out of its loca-
tion when working and then
"floated" on top of the chemical
in the tank.

Allman skid mounted sprayer
on a Cushman at Paulton's
Golf Centre - Ower in
Hampshire

This 27 hole private parkland
club, mainly pay and play, was
first opened about 18 months ago
and the Allman was their first
machine, although it was ordered
from Rowes of Chichester by
Course Manager Kevin Unsworth
prior to his arrival on the strength
of his past experience with All-
man machines and their back-up.
Paulton's Park also has an Allen
Walkover machine which has yet
to be used.

Again, mounted on a three
wheeled Cushman Turf Truckster
the unit is extremely versatile and
manoeuvrable although with an
eight metre boom Kevin considers
that it is often too wide. The
boom itself is in five sections with
4m two nozzle wing sections
which fold independently, but the
spray line is in three independent
sections. There was a weakness in
the boom mounting however
Kevin mentioned this to Allman
at IoG last year and they immedi-
ately came and fitted a modifica-
tion free. It should be possible to
isolate or remove the outer wing
sections and Kevin is looking at
inserting isolating valves, how-
ever he realises that the machine
will then need recalibrating for a
six metre width.

The 300 litre tank is relatively
high, possibly higher than neces-
sary and Kevin said he certainly
would not like to put chemicals
direct into it. He would
like some means of positively
locating the filler hose in the tank
neck but reckoned that making
something would not be difficult
- it just needs a little thought and
some time.

The Allman pump is a single
diaphragm unit and Kevin has
reservations about its capacity to
meet his output requirements
should he want to apply larger
volumes at higher speeds, for
Buying time is a whole new ball game

Force Limagrain introduce Fortiva – a new and unique concept in applied seed technology. Three fungicides and a biostimulant have been locked into a unique polymer coating to give fast, disease free establishment.

**More turf, quicker turf** Fortiva significantly increases the rate of grass establishment. Fusarium and Pythium control increase plant survival, producing longer-lasting turf.

**Extended renovation period** Fortiva has a unique blend of ingredients that increases the grass seeds ability to produce plants. This allows earlier and later renovation, and improves success from ‘in-season’ over-seeding.

**Technically proven** Extensive independent disease and establishment trials over 4 years have shown significant benefits, even where disease has not occurred.

**Versatile** Fortiva has been trialled on perennial ryegrass, red fescue, smooth-stalked meadow grass and bent grass.
The Allman 300C skid mounted sprayer at Paulton's Golf Centre

instance for fairway work. Currently most work is carried out at a rate of 600 litres per hectare and pump output has proved sufficient. A range of materials has been put through the machine including both nitrogen in the form of Micro-flow, iron, herbicides and fungicides. The course which is ex agricultural land had a residue of clover and mayweed so significant fairway spraying was needed.

Calibration is simple but setting is now mostly based on the clubs own application log sheet. The boom has turreted nozzles making it easy to switch jet. Nozzle output checks are carried out from time to time. Driving accuracy is ensured by a foam bout marker, and Kevin considers this an essential "extra", far superior to dyes. For greens he uses the foam extremely dilute so that all he gets is little more than a stain on the turf, and no upset golfers. On fairways the full rate and blob is used.

The machine has a low level chemical induction tank and this works well, although as it does not have its own strainer stray bottle tops and seals can get into the plumbing. This induction system also allows a probe to be used to suck direct from original containers. Clothing locker and clean water tank are standard but are considered to rather clutter the machine.

Fitting the unit to the Cushman and removing it is not very easy, especially with only one person, nor did Kevin consider the three legs sufficiently strong or stable to take the machine with water in it. The legs are screw adjustable but are not considered suitable for jacking the unit off the bed. The unit has a single catch to lock it onto the chassis - not very firmly and Kevin said there are times when he is apprehensive about it detaching itself. The pump has a belt drive which ensures maximum effect. The legs are screw adjustable so that they keep well ahead of the machine.

AT Telford a typical herbicide application would be a dicamba, MCPA and CMPP mix which ALS use at maximum label rate - to ensure maximum effect. Jonathan Carr of ALS said it is just not worth trying to cut the cost and then have to go back and respray. They also apply the active ingredient with the fairly high rate of water - 200 - 300 litres per hectare to get optimum coverage. He stated that increasing numbers of greenkeepers are asking for liquid fertiliser to be added so that the grass is promoted as the weeds die out. The company said that spraying golf courses is their main and highest profile activity and there are a significant number of courses on which they also undertake significant work on the greens, mostly worm treatment and fungicides - which they aim to get on within a day of a call. For greens work they use a tandem axle trailed engine-on sprayer towed behind a compact tractor or ATV. ALS are also used at Telford to spot treat or "tidy" around tree areas for which an ATV is used with a sprayer mounted on it.

In summary Ivan said he had no hesitation in recommending ALS, he has found them to be efficient and very cost effective.

"It gave me great pleasure to liberate two large haggis in Harrogate"

-- Harry Diamond, Ayr Belleisle GC
All you need to carry all

Take the stress out of transportation by letting Carryall take the strain. It's a course winner every time.

Whether carrying people, turf maintenance equipment or any number of other things that need shifting - this exceptionally quiet, lightweight, yet hardworking machine lets you perform around the golf course, free of stress to you and your turf.

And, as one of the most dependable utility vehicles available, with a durable aluminium/Armorflex body shell, it won't leave you stranded in the rough.

Economic to run, it's available with a wide choice of options, such as our Driving Range Protective Enclosure and Machinery Loading Ramp. Whether you're working the fairways, tees or greens, Carryall is ALL you need to carry. For further information and a no-obligation demonstration of the Carryall, telephone 01480 476971.

CARRYALL
Club Car
DRIVE IT TO WORK

LELY LONDON LIMITED, STATION ROAD, ST NEOTS, HUNTINGDON, CAMBRIDGESHIRE PE19 1QH
TELEPHONE 01480 476971 FAXIMILE 01480 216167

Time to look to the future

N
ow that the dust is beginning to settle after a busy but successful week at Harrogate, it is time to look forward to education and training provision for the rest of 1996. Firstly, though, I would like to echo Neil Thomas' comments about the very sad loss of Geoff Hills. We were just getting to know Geoff and, especially as I had been recently working closely with him on the South East Region Management Courses, his untimely death was a great shock and I will miss him.

The rest of 1996 seems set to continue to be busy, starting with the Regional Management Courses. Although a great success in most regions, the Plymouth Course was very poorly supported and I have had to cancel it. Courses at York and Chester were very well supported with 32 delegates in total. Killarney, Birmingham, Brighton, Dover Bournemouth and Bristol were all well supported and applications are rushing in for the extra courses at Mildenhall and Bedford, with the Hemel Hempstead course already fully subscribed.

Massey Ferguson Tractor Appreciation Workshop

The first of three Tractor Appreciation Workshops for selected college students takes place at Warwickshire College from February 19 to 23. Further workshops will be held at Oaklands College from March 11 to 15 and at Elmwood College from April 1 to 4. Any college still wishing to nominate delegates should contact me as soon as possible. Nominated students will shortly receive joining instructions for each workshop.

Miracle Professional Premier Greenkeeper of the Year

As Mike Goodhind, the 1995 Miracle Professional Premier Greenkeeper heads for Florida and the GCSAA Exhibition and Show, the search for 1996's winner begins. A leaflet explaining the rules of the Competition, giving the prize list and containing an entry form is enclosed in this magazine, so why not enter yourself or nominate your choice. Remember, the winner will be heading for Las Vegas this time next year.

ToroLely/PGA European Tour Student of the Year

The 1995 Student of the Year, James Braithwaite, is struggling through the snow in the USA at the start of his 10 weeks in the States. Entry forms and explanatory leaflets have been sent to colleges so please think about your entries, ensure that you meet the entry deadlines and make sure that any student nominated understands the rules, and more especially, that the Regional Finals will take place in early September with the National Final taking place in early October.

BIGGA Lending Library

The number of titles now exceeds 200 with more books on order. Remember, it costs nothing to borrow books for up to six weeks except the return postage. For more information or for a copy of the book list, contact me at HQ.

National Education Conference and BTME

Finally, thank you to all delegates who attended the Workshops, National Education Conference and BTME seminars at Harrogate last week, for making the Learning Experience a success. Those that did not attend missed some excellent opportunities to add to their greenkeeping knowledge and skills. However, video tapes of the Conference and Seminars will be available, for purchase, soon. Anyone wishing to buy a tape or tapes should contact me at HQ. The cost of each tape will be:

Per National Education Conference and BTME speaker £6 per tape, except Dr Joe Vargas Seminar at £10 per tape.

Written transcriptions of each session of the Conference will also be ready for purchase during February.

I THOUGHT BTME 96 WAS THE BEST YET BECAUSE:

"I actually met THE Richard Barker in the flesh."
- Jimmy Richardson, Matfen Hall GC
On-course specialists.

KUBOTA OF COURSE!

For every aspect of course work, it's Kubota of course!

Kubota has got what it takes for the myriad tasks that are involved - with powerful tractors and matched attachments that combine specialist skills with all-round ability.

Like the latest Grandel range – three models which offer 33.8, 37.1 and 43.7 DIN hp. Perfect for cutting large areas of grass, but equally at home with heavy (up to 1050kgs) lifting work.

Or the versatile ST30. It's the lightest compact in its class and, with Kubota's exclusive Bi-Speed Turn, one of the most manoeuvrable – able to turn within 2m with minimal turf damage.

They are all specialists. But they all have a sound all-round game.

For more information about these or any of the Kubota range for golf courses, complete and post the coupon. We'll send you the full facts as a matter of course...

Kubota (UK) Limited, Dormer Road, Thame, Oxfordshire OX9 3UN. Tel: 01844 214500 Fax: 01844 216685
The DewMaster

As H. Pattisson & Co. Ltd enter their 100th year of supplying quality products to Golf Courses we are proud to be able to offer another new product, ‘The DewMaster’.

This is a new and innovative time saving product, designed to remove dew from the greens, it is made from extruded aluminium for effort-free operation and a long life.

With a 3-metre (10ft) length, the minimum amount of passes are needed to clear the green. The brush section is made from a heavy duty nylon, set into 2mm gauge extruded aluminium.

**Special Centenary price:**

£68.00

This new addition is shown in our new 1996 Centenary Catalogue on page 19.

For your own copy of this limited edition Catalogue call our Luton offices on 01582 597262

H. PATTISON & CO LTD, 342 SELBOURNE ROAD, LUTON, BEDS LU4 8NU
TEL: 01582 597262 FAX: 01582 505241

---

**Hepworth Mineral and Chemical** is a huge multi-national company which recently moved into the golf sector. They have also confirmed their commitment to golf by becoming a BIGGA Golden Key Sponsor.

When Hepworths decided to take a greater interest in the golf industry they did so in the same professional manner which has made them a huge force in every other area where sand is a vital component.

Even now the sports sector is a mere 10% of the company's total business but a look at the number of tankers, each carrying the familiar Cuthbert the Camel logo, heading to golf courses and sports grounds up and down the length of the country gives a hint to the scale of Hepworth Mineral and Chemical Ltd (HMC).

“We decided to go into the golf sector in a more structured way about four years ago when it was apparent that there was an increase in the number and quality of courses being built,” said Trevor Leadbeater, Hepworth's Marketing Manager.

As ever this was the type of statement which would have had competitors becoming just a little uneasy.

“It is very much a specialised product required for this market and because of this we decided to re-structure our approach into this expanding sector of the industry.”

The “weapon” which the company developed to ensure its move into the sports sector was successful is the “Pro Sport” brand, featuring high quality...
foundation is built on sand

graded sand, root zone and top dressing.

"Pro Sport" was borne out of the fact that we have such a good processing capability and combined with quarries spread up and down the length and breadth of the country which produce sand to the required quality it is a combination which gives us an excellent range of root zones, top dressings and bunker sands," explained Trevor.

"A coarse grade sand "Pro Sport" is extremely rare in the UK. You can get it but it will be mixed up with finer sand and you get the coarse and fine sand binding together and becoming an impermeable mass which water can't get through.

"The thing we are good at is pulling out and selling the coarse grade products which lets water pass around them."

The specialist bunker sands are designed so that they don't plug and can also be sculpted. They also come in different shades so the club can have its preference of really white through to dark.

The company is in the process of setting up its own in-house testing facility so every 1,000 tonnes of material is routinely tested to make sure it conforms to our specifications before it goes out.

"Every batch is tested before it goes out anyway but a full spec is done every 1,000 tonnes and to have the in-house facility will give us a lot more flexibility."

The geographic spread is important because it means people or clubs who buy it don't have to pay huge haulage costs.

Hepworth has 17 quarries in the UK and five of these produce "Pro Sport" root zone, top dressing and sand – Levenseat, in Central Scotland, Chelford, in Cheshire, Messingham, near Scunthorpe, and Leighton Buzzard and Redhill in the south.

Trevor identifies the emergence of a much more discerning British public for the take up of "Pro Sport".

"The British public is a much better and more critical consumer of leisure products than ever before. If a golfer finds that his course is closed for two months of the year because of waterlogging he isn't happy particularly if he discovers a pay as you play course not far away constructed with all year round in mind is open."

A big move has been the branding of the "Pro Sport" brand name on what is a commodity product.

"When you brand something it gives you the opportunity to promote in a serious way and engender a certain amount of brand loyalty.

Up until now we have felt that we have had a solution to their problems but we haven't really banged the drum about it too much. What we are going to do is a structured education of the greenkeeper via the Golden Key and be a lot more promotionally active in telling people what we have got."

To the layman the processes involved in maximising the benefits of a quarry are a real eye opener. Sand emerges in particles of various sizes and shapes and these are then poured through sieves of different sizes ranging from coarse (some of which is used in the North Sea Oil Industry); down to extremely fine taking in industries like the water filtration industry, the glass making industry and industrial foundry industry.

It goes into products as diverse as soap power and the set for Channel 4’s Crystal Maze – apparently they wanted a sand of a very distinctive colour.

Having so many eggs in so many different baskets has helped insulate Hepworth from the ravages of the recession.

"People asked us if we suffered when the building industry slumped but we didn't. When one industry is suffering another is picking up," explained Trevor.

About 160 people work at Hepworth’s magnificent, recently extended, headquarters, Brookside Hall near Sandbach in Cheshire with 15 people dedicated to the sports side of the business.

"We aren't an operation which is going to be here today and gone tomorrow. This is the start of a long association with the leisure industry.

"With the Golden Key I believe it will be the start of a good relationship which we can build up with greenkeepers and hopefully they will be impressed to see the variety of solutions we have for the problems they've got," concluded Trevor.
The ever more difficult goal of improving on the year before was achieved, yet again, by BTME 96 which saw record attendances and an approval rating which would put Santa Claus in the shade.

Over the three days of the Show 4,967 people took the opportunity to visit, a figure which is 22.6% up on the 1995 total. If that looks like setting ourselves a daunting prospect for next year we are already on the way to setting new records in '97. Since returning to Aldwark Manor the post has been heaving with yellow application forms from exhibitors requesting more stand space for next year.

As one letter reminded everyone "there are only 356 booking days to go!" which is very true but for goodness sake don't leave it until the 356th day as we invariably sell out well before the final deadline.