

SPRAYERS

operated-knapsack and pedestrian operated portable units.

This sector is catered for by E. Allman and Co Ltd of Chichester.

With 70 years' experience in sprayers, Allmans are fully experienced in solving the problems of unusual applications. Three pedestrian operated units are available from the company, two "barrow" sprayers complete with plastic tanks, diaphragm pumps and 2.5 metres of hose feeding a hand lance, all powered by an integral 4 stroke petrol engine.

These 70 litre, 100 litre and 300 litre trolley mounted sprayers are suitable for towing by hand, or with a compact or garden tractor.

Turf care, is catered for by Allman's CR200 and CR400 skid units for mounting on golf carts or four wheeled trucks. These versatile sprayers, can be equipped with spray booms, hose reel and lance, high pressure washing gun and single nozzle and hand lance.

A British company, Allman are backed by distributors offering service and parts supply, Sales Director, Clive Barber, claims that they have seldom met a task for which a sprayer cannot be produced.

The recent Food and Environment Protection Act and the Code of Practice for pesticide use are just as applicable to amenity applications as to agriculture, where they have gained widespread publicity.

volume; so many sprayers are sold with just one pump size available.

The Hardi BL range of small sprayers are ideal for the golf course and sports ground. With a choice of 200 or 300 litre tanks and a three section folding boom, this sprayer is capable of treating small areas such as tees and greens all the way up to fairways and sports pitches. There is the D500 pump suitable for most spraying jobs, the RV10 pump is also available for those situations where a greater range of volumes is required. Hardi have a vast range of nozzle types and sizes capable of dealing with any application situation. The modern compact tractor with an enclosed cab poses a problem for the spray operator; he needs to keep the windows closed when spraying and yet have direct access to the controls of the sprayer when turning and adjusting the pressure gauge. The BL range are available with a simple but very effective modification to give the operator complete control from inside the safety of the cab.

The BL range have a number of other important features such as a deep filter basket, nozzle check valves and triplet fittings to hold three sizes of nozzle thus removing the need to take off one set and change for another when applying another product that requires a different application volume, all designed to save time and reduce operator exposure.

Hardi Knapsack Sprayers

Carrying liquid pesticide on your back can be a hazardous operation, the risk of leaks must be minimised and operator comfort and safety are very important.

The Hardi RY2 and K15 sprayers are designed to meet the exacting needs of the certificated spray operator.

Precise control over pressure, quick adjusting non absorbent straps, clips on the handle to hold the lance in place, a one way valve on the lid that allows air in but not liquid out are all features of these light and well designed machines. The bodies are made of strong but light plastic that allow the operator to see the level of liquid in machine.

Aim at the right range

HARDI

SPRAYERS

Models to fit all Compact tractors

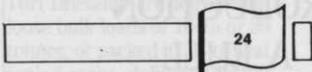
With capacities from as little as 200 litres HARDI Sprayers are a first choice for Compact tractor owners. HARDI assures you of efficient crop chemicals application. It is a company with over 30 years specialist experience in building crop sprayers and an acknowledged leader in the field.

HARDI – THE SPRAYER COMPANY OF THE FUTURE



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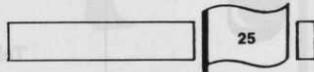
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CV10 7QT
Telephone: (0203) 372054



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HARDI SPRAYERS

THE Food and Environment Protection Act has brought about a whole new approach to spraying technique. The operator is now required to produce a precise calibration for his machine to comply with the label and the Code of Practice; important factors such as spray quality and application volume are closely associated with pressure, nozzle design and flow rate. This requires a choice of sprayer that is versatile with a wide range of nozzle types and sizes. The choice of pump is critical as it decides the range of water volumes and limits the maximum



25

BUNKER SAND

BUNKER SANDS

A wide variety of sands are used for bunkers, often determined by local availability and cost, however, problems for both the player and the greenkeeper will result from use of sands which are basically unsuited for this purpose. It is, therefore, worthwhile to consider the basic requirements for a good bunker sand.

1. The sand is primarily required to provide a satisfactory playing surface within the bunker and to do so under all weather conditions.

It must, therefore, be relatively free-draining and will usually be a washed and graded sand that is relatively clay and silt free. Very fine sands should be avoided since they tend to compact down under heavy rainfall to produce relatively hard, slow-draining surfaces and conversely under dry, sunny and windy conditions tend to suffer from wind blow. Also the very nature of a bunker shot is such that the club should bite into the sand beneath the ball, this action being difficult to achieve in a compacted, fine sand.

2. Small quantities of sand

are inevitably sprayed onto the green as bunker shots are played, therefore, it is important that the bunker sand should not contain 'large' particles of grit or small gravel which could then affect the true roll of the ball and subsequently cause damage to mower blades.

The sand should also not contain significant quantities of lime particles in order to avoid any deleterious affects to the sward on the green.

Overall consideration of the above factors leads to recommendation that a bunker sand should be washed and graded, medium-coarse, lime free sand in the preferred size range of 0.25 - 1.00 mm with no particles whatsoever above 2mm.

A further factor that is not always considered is the colour of the sand. Some people prefer the strong contrast provided by the 'white' sands, whereas others prefer the more softer tone of a buff sand, the latter being perhaps 'easier' on the eye, particularly during sunny conditions.

The last, but not least consideration is, of course, cost and the sand types recom-

mended are certainly not the cheapest grades available, however, as with turf dressing sands the long term cost effectiveness of selecting a grade meeting the requirements is well proven.

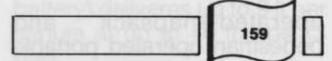
JOSEPH ARNOLD AND SONS LTD

JOSEPH Arnold & Sons Ltd, one of the last remaining independent suppliers of high quality silica sands, operates from six quarries located near Leighton Buzzard in Bedfordshire.

Quality control is a critical factor gaining customer satisfaction and all products are carefully monitored for consistency throughout the production stages, concentrating on the elimination of large stone and excessive fines.

Joseph Arnolds have developed a range of 3 specialised bunker sands which are washed and unwashed, NT53 (brown sand), DA 52N (yellow sand) and DA 21M (white sand), these are ideally suited for every greens environment.

Bunker sands are always available for immediate delivery on a 24 hour basis.

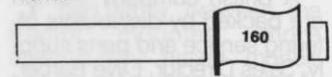


MANSFIELD SAND

MANSFIELD Sand Company Limited are well established suppliers of a comprehensive range of high quality sands into the foundry and construction industries and are, therefore, accustomed to producing sands to tight specifications.

The use of such high quality sands on golf courses and other sports turf has increased significantly over the past few years in line with the increased demand for good quality sports turf. The various requirements on a golf course including bunker sand, top dressing sand, sands for slit drains and rootzone sands are all provided for.

Recent developments which should be of interest to the golf course architect and greenkeeper include both fibre stabilised and rubber modified sands and also a top dressing blend of Gypsum and sand suited particularly to heavy clay soils.



ARNOLD SANDS FOR INDUSTRY

If your product innovation and development skills are constantly demanding more from the raw materials you use, talk to us. You'll find we have a lot in common.

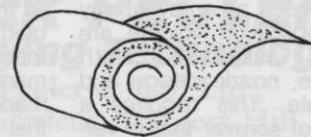
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COMPOSTS : PEAT : FERTILISERS
ALL GRADES OF BARK AND
TREE PLANTING COMPOST

These products are extensively used at many golf courses, professional football grounds, bowling greens, also the particle size grading makes this material ideal for sand slitting, where good drainage is required.

BUNKER SAND

The well known creamy white sand in free running granular form from The Moneystone Quarry. An ideal lime free sand that is stain free, it gives excellent drainage and prevents water retention in bunkers.

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 4. No compaction.
 5. Reduction of thatch and prevention of further development.
 6. Prevention of surface puddling on heavy soils.
 7. Provision of cover for overseeding.
 8. Stability where soil structure has been destroyed.
- Typical application rate should be one cu. mt. every 5 to 600 square metres of green.

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A mixture of granulated sedge peat and T.M.R. granular silica sand fertilisers can be added to the mix to suit your individual requirements. This mixture is ideal for the promotion of new root growth.

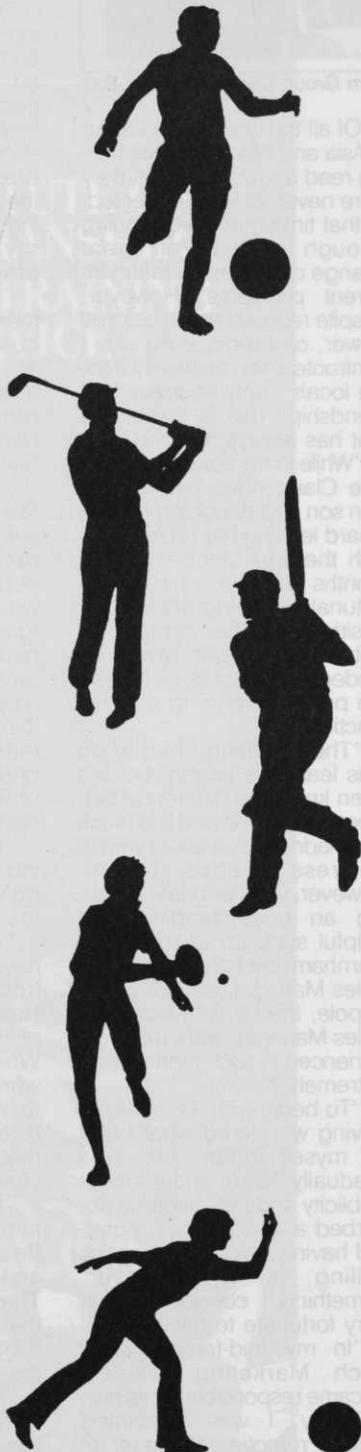
Turf Dressings are delivered in loose bulk loads of 10-15 or 20 tonnes, or packed in 25 kg heat sealed sacks, delivered in full lorry loads of 400 bags.

BULKY LEVELLING & ROOT ZONE MIXES

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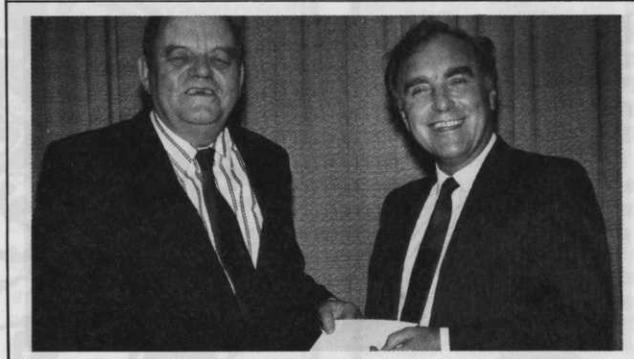
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PERRY CREWDSON

After a lifetime of service with Ransomes, Sims and Jefferies, Perry Crewdson has just retired. Latterly he held the post of Public Relations Manager and it is probably in this role he is best remembered. Greenkeeping Management is delighted to publish this interview and wishes Perry every best wish in his retirement.



Perry Crewdson receive a cheque from Group Chief Executive Bob Dodsworth.

“**E** DUCATED at Wellington College, before leaving I had to make up my mind what I wanted to do. Unlike to-day there were only three choices. Should I join the Army, Navy or Air Force?”

“For no reason other than my father being a regular soldier I decided to join the Navy and was accepted as a potential Fleet Air Arm Pilot. Upon joining the Navy I was told, along with many others, that we were excess to requirements.

“I became a Coder and was sent out to Malta. As a Coder/Translator, I was about to join the Commandant du Boc, leader of the French 1st Sloop Flotilla, due to sail for Saigon, when the Japanese war came to an end. I saw her alongside in Toulon but never went on board.

“I remember my days in the Navy for the odd duties in MFVs and Landing Craft but mainly for the amount of tennis and hockey I played while serving on a Naval Air Station in Malta. I was too young to have coded in anger!!

“Joined Ransomes as the first post war special Apprentice at the age of 21. Following 18 months on the shop floor I became Assistant to the Plough Works Manager.

“Although I thoroughly enjoyed being involved in works management my aim was still to get into the Export Dept. Had it not been for the war and the changing nature of the world I may well have become an Agricultural Officer in the Colonial Service.

“I joined the Export Dept. as the Lawn Mower Export Rep. Before being let loose to the outside world I accompanied lawn mower service/demonstrators in the London area and took over the North of England.

“When considered fit to

represent the company overseas my first trip was to Belgium, followed by nearly six months in Canada and the U.S.A.

“I had hardly returned from N. America when I was sent out to Asia where I represented the company's lawn mowers, farm machinery and electric trucks. Adapting to the contrasting environment took some doing - I had to slow down and not get impatient.

“When the Marketing Divisions were formed I became the Farm machinery Area Supervisor for Asia and Africa. A large territory to cover but I was in my element.

“I was the first person from Ransomes to visit Japan after the war and the first to fly the polar route. In those days flying the polar route was something new and I was presented with a certificate which is held in the company's archives. In those days we used to sell some 700 field mowers a year in Japan, as well as ploughs and lawn mowers.

“An achievement of which I'm particularly proud was, after spending about 3 weeks in Rangoon, we won an order for 500 disc ploughs from the Burmese Government.

“Three of my most 'hairy' times were in Africa. Getting out of Leopoldville in the Belgian Congo 3 days before Independence, flying across the Sahara, with 2 engines shut off, making for Rome and leaving the runway while taking off in Lagos.

“One of the more amusing times was when asked to bring up the rear of a Hindu Procession in Madras with a Fordson tractor and Ransomes plough. The Procession also included Holy men, highly decorated elephants, cattle, water buffalo, goats and numerous 'hangers on'.

“Of all the countries I visited in Asia and Africa, despite having read about them first, they were never as I had expected. At that time many were going through periods of great change combined with the inherent problems. However, despite representing a colonial power, on no occasion was I confronted with animosity from the locals - only courtesy and friendship. This is something that has always amazed me.

“While in my early thirties my wife Clare, gave birth to our twin son and daughter. I found it hard leaving her on her own with them for periods of two months and more. I was very fortunate in being offered the position as the company's Publicity Manager which included, amongst other things, the press advertising and PR functions.

“The first thing I had to do was learn the jargon. I didn't even know the difference between a half tone and line block and hadn't a clue about writing a press release. I was, however, very fortunate in having an understanding and helpful staff. In addition Bob Garnham, the Farm machinery Sales Manager, and Guy Catchpole, the Grass Machinery Sales Manager, were more experienced in such matters and extremely helpful.

“To begin with, I confess to having wondered what I had let myself in for, but as I gradually learnt more about publicity and PR I became absorbed and no longer regretted having given up overseas selling. It is, however, something I consider myself very fortunate to have done.

“In my mid-forties, when each Marketing Division became responsible for its own publicity, I was appointed Sales Promotion Manager of the Electric Truck Division which has taken over the

marketing of Ransomes made fork life trucks from the Hyster Co. The materials handling industry was very different to what I had been accustomed to and I admit to having found it difficult to work up enthusiasm for the economics and means of moving pallet loads of goods. My heart remained with farm and grass machinery.

“Prior to the company selling the electric truck business, some ten years ago, I returned to PR for the Grass and Farm Machinery Divisions. I have never felt one man should be responsible for both press advertising and PR and the last ten years of my working life have, I'm pleased to say, been devoted solely to PR activities.

“Although I had been out of the grass and farm machinery business for some six years only, I could count the faces among the Press I remembered, and who remembered me, on one hand.

“When a Lawn Mower Demonstrator nearly 40 odd years ago, never in my wildest dreams did I think such sophisticated equipment would be used to maintain turfgrass. The introduction of hydraulics and hydrostatic drives have, in my view, revolutionised grass cutting. I don't think it had even entered my mind 40 years ago that mowers would one day be powered by water cooled diesel engines.

“It really does date me having seen a horse drawn triple gang mower in regular use in the London area.

“Of my outside interests, I have had the greatest pleasure from being a member of the National Turfgrass Council and of the Advisory Panel of Whitehouse Enterprises, the workshop for the disabled in Ipswich. My one regret is that time hasn't allowed me to do more with the NTC in recent years.

“I count myself extremely fortunate in being able to look back at an interesting, fulfilling and enjoyable working life. There have, of course, been the bad times, but without them, one wouldn't appreciate the good ones to the full.

“I shall miss, not only my friends at Ransomes, but also those I have been privileged to know in the turfgrass industry and the Press.”

Peterborough 1990. The I.O.G. Sports and Leisure World Trade Exhibition.

September 4th-6th 1990

1990 and the "Greatest Show on Turf" moves to its new location at the East of England Showground, Peterborough. For everyone involved in the landscaping, management and maintenance of sportsgrounds and leisure facilities it's an event not to be missed.

With more on view than ever before, it's bound to be a year to remember and an exhibition never to forget.

The largest exhibition of its kind in the world.

The I.O.G. World Trade Exhibition has gone from strength to strength, from success to success and Peterborough will be yet another milestone in what's become the greatest exhibition of its kind, anywhere in the world.

A truly international event.

More than 24 countries will be represented and overseas trade visitors will be expected to exceed the 1500 mark. No other similar exhibition can be matched for the quality and variety of its visiting public.

A new and exciting venue.

The East of England Showground boasts the finest facilities available for this type of event, for instance there will be 20,000 square metres of working demonstrations on show.

Peterborough's centralized location is ideal for road, rail and air links, and the Showground itself boasts ample car parking spaces and easy access for everyone involved.

Many exhibits on display.

Everything that is needed for the care of sports grounds, playing fields, leisure and other amenity areas will be on show. These include: Advisory Services, Arboriculture, Agrochemicals, Buildings, Engines and Motors, Irrigation, Outdoor Furniture, Plant and Machinery, Play equipment, Protective clothing, Safety and Security, Seeds, Turf, Plants, Technical Books and Journals, Sports Goods, Waste Disposal and many more.

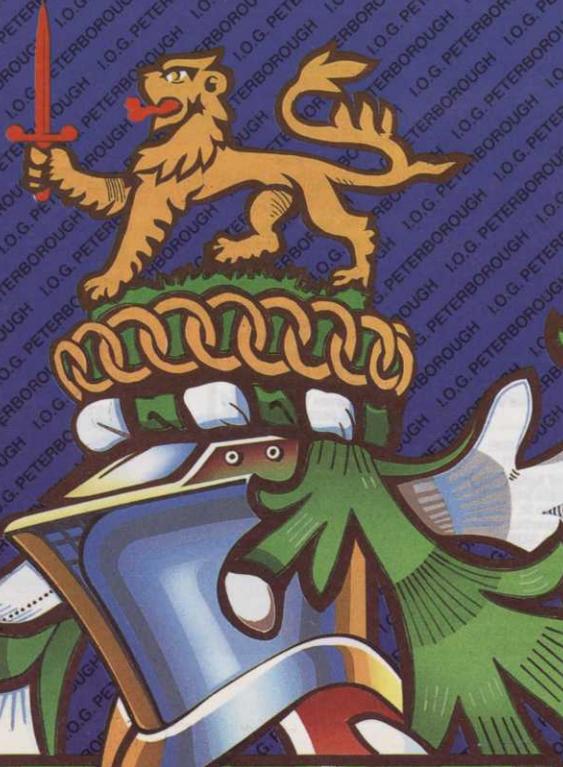
The Exhibition Organiser,

The Institute of Groundsmanship, 19-23 Church Street,
The Agora, Wolverton, Milton Keynes,
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York YO2 1XB
Tel: 0904 704121

Seward Agricultural Machinery Ltd

Sinclair Station, Sinderby
Thirsk YO7 4HY
Tel: 0845 567407

Seward Agricultural Machinery Ltd

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Ralph Turner Ltd

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Harrogate HG3 1BJ
Tel: 093782 631

Peter White Limited

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Tel: 028284 3262

SCOTLAND

Bryce Houstoun & Son Ltd

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East Lothian EH40 3DE
Tel: 0620 860454/860348

Bryce Houstoun & Son Ltd

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Tel: 031 4436034

Rickerby Limited

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WALES

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Abbey Garage, Denbigh
Chwyd LL16 3DR
Tel: 074571 2166

Riverlea Tractors

(J. W. M. W. Hill & Son)
Crymch, Dyfed SA41 3QX
Tel: 023973 387472

Riverlea Tractors

(J. W. M. W. Mill & Sons)
Whitland, Dyfed SA34 0QQ
Tel: 0994 240644/5

Saville Tractors Ltd

Village Farm Industrial Estate
Pyle, Bridgend
Mid Glamorgan CF33 6PP
Tel: 0656 743120

West Midland Farmers Assoc Ltd

Usk Road, Raglan, Gwent NP5 2HJ
Tel: 0291 690205

Burgess (Agricultural Engrs) Ltd

Y-Flo, Pwllheli, Gwynedd LL53 6YL
Tel: 0766 810792

Burgess (Agricultural Engrs) Ltd

Bridge St, Llangefni
Anglesey LL77 7PL
Tel: 0248 750302

NORTHERN IRELAND

Saville Tractors (Belfast) Ltd

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Belfast BT17 9NX
Tel: 0232 301211

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VERSATILE, RELIABLE, EFFICIENT (AND THAT'S JUST THE NATIONWIDE DEALER NETWORK)



CASE IH 200 SERIES COMPACT TRACTORS

CASE INTERNATIONAL 235

With 17 hp the 235 is an ideal power unit for sporting grounds care and estate maintenance. It is available with mechanical and hydrostatic transmissions.



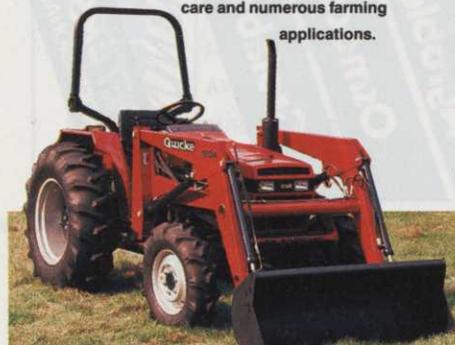
CASE INTERNATIONAL 255

23 hp means the 255 is designed to handle any number of jobs around a small farm or estate. It's also ideal for nursery, landscape, school and all ground care work.



CASE INTERNATIONAL 275

The big 29 hp engine unit makes the 275 the ultimate compact tractor. With its high levels of comfort and quick handling, it's the perfect machine for large scale grounds care and numerous farming applications.



Whether it's a golf course, a park, a garden or a farm, it's hard to beat the all round versatility of the high performance Case IH 200 Series compacts. Tough, reliable and durable, they come with the kind of big tractor benefits you won't find on many similar sized models. The beefy, liquid-cooled three-cylinder engines are designed for long life, high efficiency and frugal fuel consumption. And with smooth shifting transmission, full instrumentation and an extra large suspension seat, they're a pleasure to drive.

Each model in the 200 Series is designed to make light work of any task, whether it be mowing, towing, lifting, loading, pushing or pulling.

Your Case IH 200 Series dealer is waiting to give you a demonstration now. As part of one of the largest and most experienced dealer networks in the country, he has a lot to offer. Why not call in today and see for yourself.

I'm interested to know more about Case IH 200 Series Compact Tractors. My application will be

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About Turf.

Important information.

Results from STRI trials 1987-89 show consistent good colour and growth through the season from one application. Of course you'd like to know the reason why. Find out, immediately by returning the coupon. You can have detailed trial results to determine your turf needs. It's a service that costs you nothing but offers a great deal.



Optimum results with Osmocote N.

100% controlled release nitrogen assures even growth through the whole season. No flush of growth in spring, unaffected by rain-fall or irrigation. One application can be safely made at any time of year. No leaching of nitrates means an environmentally friendly product.

For prompt information.

Post the coupon today and we'll send you the information by return.

Sierra U.K. Ltd. Telephone (0602) 455100.

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Name _____

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Tell us which type of turf and we'll supply a special recommendation.

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Sierra supplies high quality controlled release fertilizers for:

- Bedding plants
- Container nursery stock
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Please return this coupon in a sealed envelope to Sierra UK Ltd., Freepost, Nottingham. NG2 1BR.



Controlled Release Fertilizers

Water soluble fertilizers

Registered tradenames of Grace Sierra, Horticultural products, P.A., USA.

SLOW RELEASE FERTILISERS

CRF COSTS PER SQ YD COMPARABLE WITH CONVENTIONAL FERTILISER

CONTROLLED release fertiliser may seem expensive compared with ordinary granular products. However, recommended application rates are low and just one spring dressing of crf lasts a whole season. Comparing the costs, Mr Richard Flower, head greenkeeper at Mendip Golf Club near Bath calculates Osmocote N crf to be no more expensive than conventional fertiliser. It also gives steady turf growth without flushes and reduces labour input.

A half hundred weight bag of ordinary 17:0:9 fertiliser costs Mr Flower £7.00 and at 1oz/sq yd covers 800 sq yd. His total tee area is about 5,400 sq yds. To keep tee turf looking good, it often requires repeated dressings during the summer. "I dress tees and surrounds three times, at 6 week intervals with 1oz/sq yd 12:0:9 fertiliser" said Mr Flower. He therefore covers 16,200 sq yds, at a cost of 2.4p/sq yd, plus 4 hours labour per application.

Osmocote N crf was applied on trial tees at 3/4 oz/sq yd last March using a cyclone spreader. The tees were not irrigated. "It gave good grass cover all year. The turf didn't flush, then wear away and start looking hungry, which happens with the ordinary feed" he observed.

To feed the tees with Osmocote N for the season needs one dressing at 3/4 oz/sq yd. At this rate, a 25kg bag of Osmocote N crf from Sierra UK Ltd, Nottingham,



covers 1180 sq yds. At £40 per bag this equates to 3.3p/sq yd, but he saves over eight hours' labour cost and management time. "On comparison there's hardly any difference in price between using crf and my ordinary fertiliser" said Mr Flower. "The advantage is you only have to apply the crf once - before things get really busy - and the turf grows steadily all year."

Osmocote N granules contain NPR 39:0:0, in organic resin coating, safe for users and the environment. The rate of nitrogen release depends on soil temperature. At average temperature 16°C one application lasts 7 months. Release rate mirrors grass growth therefore reducing the chance of leaching and granules are small enough to avoid being picked up by

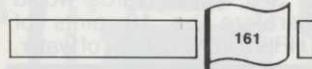
mowers. Costwise crf is comparable with conventional fertilisers and a labour-saving means of keeping tee turf green and strong all season.

applications.

Flo-Gro liquids are compound fluid fertilisers formulated as totally clear solutions without any sediment. To ensure accurate and consistent quality "state-of-the-art" computerised auto analysis has been used to guarantee the nutritional content of each product. Some of the Flo-Gro products contain "Didin Fluid" the slow release nitrogen inhibitor which phases the amount of nitrogen available to the plant.

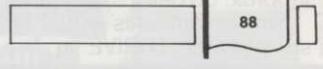
Flo-Gro liquid fertilisers eliminate unsightly powder and granule residues and mower "pick-up" on fine turf. Formulated as liquids Flo-Gro ensures more accurate and simple measuring and application can be combined with pesticide and other liquid turf care products.

Flo-Gro products will be available for use on turf and each is packed in 20 litre plastic containers, each product is colour coded to ensure easy recognition.



NEW SOLUTIONS FOR GROWING PROBLEMS

THE Farmura Flo-Gro range represents a completely new and revolutionary approach to turf nutrition. Specially formulated for use on turf following a successful national commercial users trial programme Flo Gro liquid fertilisers offer the professional Greenkeeper, Groundsman and Landscaper an advance range of products providing a safe and simple alternative to conventional fertiliser



THRIVE

THRIVE 100 per cent Organic Plant Food and Soil Conditioner, is the direct result of pollution control systems developed for farmers to use in containing and converting farm wastes into useful fertilisers. By containing these toxic slurries, seepage into watercourses with consequent environmental damage is prevented.

The process is anaerobic digestion of raw cow slurry, in large underground tanks. During this digestion period, weed

continued on page 30

Farmura
Environmental

IN 1990

FARMURA WILL MAKE
THE NEW 'FLO-GRO'
LIQUID FERTILIZERS
AVAILABLE TO THE
TURF INDUSTRY

FLO GRO
LIQUID FERTILISER

● Maximises nutrient uptake at soil and foliar level - reduces soil build up of excess nutrients

● Encourages more even application through spraying, providing even grass growth response

● Stimulates a healthy green colour without undesirable flushes of growth

● Eliminates unsightly powder and granular residues and mower 'pick-up' on fine turf

20
LITRE
plastic
drum

RESULT: GREAT NEWS FOR GREENKEEPERS. BAD NEWS FOR COMPETITORS

STONE HILL, EGERTON, ASHFORD, KENT, TN27 9DU. TELEPHONE (023 376) 241/581

GREENKEEPING
MANAGEMENT

SLOW RELEASE FERTILISERS

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seeds, toxins and disease pathogens are destroyed, but all the nutrients of the original manure are retained.

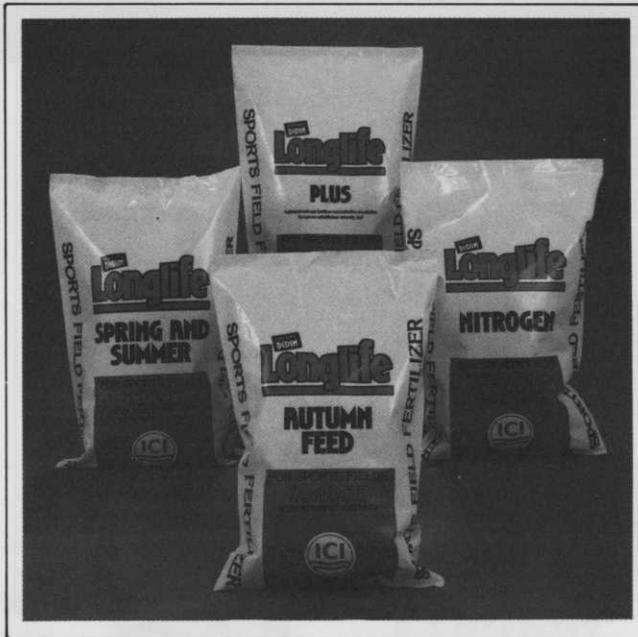
These nutrients are in both ammoniacal and slow release organic forms, which gives a most natural response, without a swift flush of growth, and then a fall back. THRIVE liquid plant food does, however, give a strong and steady growth, offering quite remarkable results.

Some of the benefits when used on turf, are: Much improved soil structure. Improved root development. Greater drought resistance. Increased micro organism activity. Reduced dependence on chemical fertilisers. THRIVE liquids help reduce environmental pollution.

Application rates for grasslands are as follows, but should be used as a guide only. For instance, sandy soils will need somewhat higher amounts than medium or clay soils.

One 25 litre drum of THRIVE diluted into 132 litres of water (approx. 30 gallons) per acre.

Smaller amounts would be six pints of THRIVE in five



gallons of water to feed about 125 square yards. A golf green of 375 square yards would therefore be 18 pints of THRIVE in 15 gallons of water.

ICI LONGLIFE FERTILIZER

WHEN ICI Professional Products as one of the worlds largest companies introduces a new range of fertilizers to the sports, amenity and landscape market, there is a great deal of attention given to their activities. So it was when in 1988 ICI Professional Products acquired the marketing rights for the Longlife range of turf fertilizers.

As the needs of the grass plant changes in light of new cultivars, management practices and increased wear and tear on the turf, fertilizer suppliers must adapt the analysis of their fertilizers to suit these changes.

ICI technical staff reviewed current research and soil analysis data from a wide range of turf situations, furthermore the view of experienced greenkeepers and groundsmen were also sought. The result of these investigations has enabled ICI to bring together a range of products to suit all these different needs. In particular ICI identified early on the need for a zero phosphate fertilizer and this is why Finegreen NK is a key part of their fine turf range.

The Longlife range now consists of four products for fine turf and four for sports fields. The tables show clearly the range available. All the products contain in addition to the nutrients shown, a combination of trace elements derived from seaweed which provides a range of organic nutrients.

"One of the major reasons why the Longlife range has made such an impact in the UK market is the incorporation of the unique nitrification inhibitor Didin" sates Patrick Goldsworthy, ICI's Products Technical Manager.

The grass plant can absorb nitrogen in both the nitrate and ammonium forms; but the ammonium form, which is less prone to leaching, is used more slowly by the grass plant resulting in a reduced flush and a longer period of growth."

"By including the nitrification inhibitor 'Didin' in their fertilizers ICI ensure that the majority of nitrogen present in the rooting zone is in the ammonium form. This results in a prolonged feed from one application and a more efficient

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Three applications a year should be quite sufficient for very healthy grass growth. The increased micro organism activity will also help in the control of thatch. THRIVE liquid is intended to be used as a coarse spray, and fine filters should be removed from equipment before use. Clean out with clear water afterwards.

TYPICAL ANALYSIS OF THRIVE LIQUID PLANT FOOD

- (n) Nitrogen 4.32 per cent.
- (p) Phosphorous .96 per cent.
- (k) Potassium 3.2 per cent.
- Calcium 1.5 per cent.
- Magnesium .43 per cent.
- Sodium .66 per cent.
- Manganese .027 per cent.
- + other trace elements.
- Heavy metal contents are very low.
- Copper 139 parts per million.
- Lead 11 parts per million.
- Zinc 1154 parts per million.

• **Note:** Because THRIVE is a natural product, it is not possible to guarantee this analysis to be absolutely accurate from batch to batch. However, each batch produced will be reasonably close to make major difference to the results obtained.

THRIVE LIQUID

PLANT FOOD AND SOIL CONDITIONER IS A 100% NATURAL FERTILISER WITHOUT ANY CHEMICAL ADDITIVES WHATSOEVER

It can be sprayed onto grassland in cold or hot, wet or dry conditions. Because it is a fully processed, natural product, it will not scorch, even if used undiluted. The nutrients are in both ammoniacal and slow release organic forms, giving a gentle and steady response, without a swift flush of growth.

SOME OF THE BENEFITS WHEN USED ON TURF ARE:

- Much improved soil structure
- Improved root development
- Greater drought resistance
- Increased micro organism activity
- Reduced dependence on chemical fertilisers
- Thrive liquids genuinely help to reduce environmental pollution.

For further information please contact our sales office at:

THRIVE INDUSTRIES LTD., CAREY STREET, KETTERING, NORTHANTS NN16 0JL

**Telephone: (0536) 411177
Telex: 347202. Fax: (0536) 411736**