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These three machines have been designed to remove all the thatch, thus stimulating recovery and growth of strong healthy grasses. You will find that each machine will clear the difficult, dead, matted, fibrous grass that is so often so difficult to get rid of.

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The British Golf Greenkeeper

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Front Cover Picture

THIS WEED spraying outfit by Cooper Pegler & Co. Ltd., Burgess Hill, Sussex, is equipped for low volume selective work at controlled pressures with up to 6 ft. coverage. One filling can cover 1,000 square yards.

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fairways, greens and the rough, plus some pretty sound advice. Advice based on 160 years of experience learnt the hard way.

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(Internet)

4

Keeping weeds out

THE BEST way of ensuring a weed free turf is never to let the weed in. Killing weeds is not the problem it used to be, but there are such things as resistant weeds, and in any case application of weedkilling chemicals involves extra cost in labour, materials and equipment.

Some check to grass growth is likely, discolouration of the turf is possible, and real damage can be caused by accidental overdoses. And, of course, treatment may involve some interference with play.

When preparing the seed bed for a new turf area, every effort should be made to get the new turf off to a clean start by physical or chemical fallowing, using of paraquat and diquat for example, or by soil sterilisation. The last involves the use of suitable sterilants such as methyl bromide or basamid. Great care is needed in the use of these materials because of mammalian toxicity risks, and the treatment is expensive, so that in practice only greens are likely to receive it.

New turf on insufficiently cleaned land often shows a variety of broadleaved weeds and weed grasses. Where practicable that is, on greens, weed grasses should be got out by hand as soon as they appear—there are no reliable selective grass-killers yet.

Many of the other weeds are likely to be annuals which are eliminated by mowing—one of several good reasons for ensuring regular mowing from the beginning. As to the remaining weeds, it is usually wise to avoid being overanxious until the grass is well established. Individual large docks and the like can be hand weeded to avoid possibly detrimental use of chemicals.

Special herbicides have been developed for treatment of young turf where this becomes essential but even the use of these should be the subject of careful consideration. The main chemical concerned, ioxynil and morfamquat, are present in proprietary products which • J. R. ESCRITT, Director of the Sports Turf Research Institute, tackles problems of weed control on golf courses.

must be used only in strict conformity with the instructions on the label.

Mixtures of fine grasses should be treated only when the sward is fairly well established and regular mowing has begun, but coarser mixtures based on ryegress may be treated a little earlier, once they have achieved at least two or three expanded leaves.

Normal selective weedkillers can be used, possibly at reduced rates, when turf has become reasonably well established, at least six weeks and preferably six months after germination.

General management has a considerable influence on the composition of a sward and accepted principles of good management can go a long way to keeping out weeds including moss. Fertiliser treatment, possibly including sulphate of iron, watering, mowing, and top dressing, all affect the composition of the sward. Top dressing alone can introduce an awful lot of weeds if it is not sterilised.

On can reasonably deduce that a good defence against weed problems is a good greenkeeper!

On greens hand weeding of the odd weed is **not** outdated; it can be very convenient and prevent a real problem from arising. Regular scarification or "vertical mowing" not only prevents excess fibre formation but also adversely

[Turn to Page 7]

The 100,000 Hole Golf Course Better aeration means better golf

Aeration, properly carried out, creates conditions which will produce a better sward and consequently a better playing surface. Proper aeration allows air to circulate more freely around the roots thus assisting respiration.

In addition it also * ENCOURAGES BACTERIAL ACTIVITY * PROMOTES A VIGOROUS ROOT GROWTH * IMPROVES SURFACE DRAINAGE

* RELIEVES COMPACTION * AIDS ARTIFICIAL WATERING

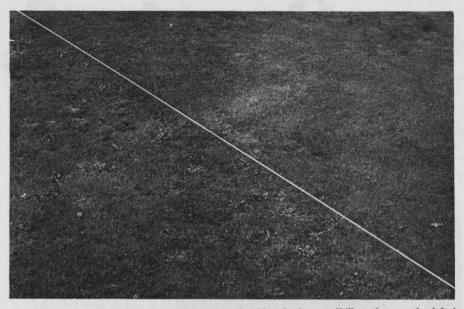
 * ASSISTS FERTILISERS TO REACH THE ROOTS
* ENABLES TOP DRESSING MATERIALS TO BECOME INTEGRATED WITH TOP SOIL.

Remember, however, it must be proper aeration. There are many aerating machines on the market but not all of them perform the function adequately. There must be maximum penetration combined with minimum surface disturbance.

For FREE advice on the best machine for your area why not consult us – we are the acknowledged experts on *all* types of aerators, turf maintenance machinery and allied products.

> From sowing to mowing Parkers

T. PARKER & SONS (Turf Management) LTD, Worcester Park, Surrey, KT4 7NF. Tel: 01-337 7791 or 0861



TURF to the right of the line has been sprayed with selective weedkiller; that on the left is untreated.

[Weed Control from Page 5]

affects weeds such as clover and yarrow. In addition, it helps to reduced, or at any rate to restrict development, and disguise the appearance of patches of Yorkshire fog.

Nowadays killing broad-leaved weeds in established turf is a relatively simple task, but moss is a special problem, it is not eliminated by normal selective weedkillers. Management, including height of cut, plays a great part in moss control, but when there is a real moss problem mercurised moss killers suitable for the season are of great value. They are rather expensive and so are normally used only on greens.

Selective weedkillers will deal with most broad-leaved weeds. Their active ingredients are chemicals usually referred to as growth regulators, which are absorbed mainly through the leaves, but also through the roots, and act as poisons for susceptible species, upsetting normal growth processes and distorting



WHEN there are only one or two weeds on a green, this is still the best way of removing them.

growth. At first there were only two chemicals—2, 4-D and MCPA—and these were more or less competitive, covering almost the same range of weeds. Nowadays there are other chemicals available, including 2, 4, 5-T, mecoprop, dichloroprop, fenoprop, dicamba and 2, 3, 6-TBA.

[Turn to Page 9]



to maintain first-class sward for fairways, approaches and greens.

Fertilisers, seeds, top dressings, weed-killers, for all seasons. Supaturf Fertilisers are scientifically blended from organic and inorganic ingredients

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what you

The chemicals are available as proprietary products which may contain more than one of the chemicals so as to ensure that a wide spectrum of weeds is controlled. It is obviously useful to know the names of the weeds causing trouble so as to ascertain whether they are listed on the label of the chosen product. The label should, of course, be read carefully and the instructions carefully adhered to.

Despite the excellence of the range of selective weedkillers successful results very much depend on the greenkeeper in the following ways :

FOLLOWING the instructions on the label;

CHOOSING the right product;

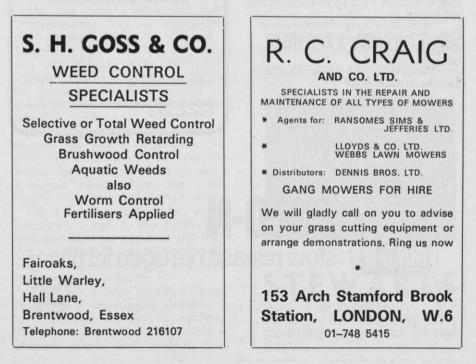
TREATING in the right season (usually late spring and early summer) and in the right weather conditions—fine warm weather when the soil is moist and growth vigorous. It often helps to link weedkilling with fertilisation, applying the weedkiller about ten days after the fertiliser when growth has been accelerated.

USING the right equipment (a suitable sprayer fitted with suitable nozzles) and ensuring uniform coverage so that no weeds are missed and no grass gets a double dose.

FOLLOWING up appropriately with repeat applications when necessary.

AVOIDING accidents like allowing drift on to flower beds round the club house.

The modern greenkeeper is provided with modern weapons but he has to be rather knowledgeable to use them properly.



GOLD-N the fertilizer to last the season Slow release nitrogen fertilizer from ICI (32% N)

This 32% N Fertilizer is an absolute boon to everyone concerned with superb grass, whether it be for a sportsfield or for general amenity areas.

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