

Chapter 1 - Lawn maintenance scheduling

Introduction



This chapter looks into the timing of the maintenance operations needed to produce quality lawns. Quality lawns that are dense, visually pleasing, uniform in colour and texture, growth and of course able to tolerate wear and tear. The most frequent operations associated with lawn or garden care are those of mowing and watering. Though these in themselves do not directly guarantee the growth and development of a healthy, vigorous sward. Minor operations, as detailed in the following pages are just as important to overall, long-term turf grass health and development.

The most vital aspect in obtaining a high quality turf surface is the hard work put in by the lawn owner. The lawn owner must have an appreciation of the growing habits and characteristics of grass, the effect and consequences of user wear upon the surface, an understanding of how and why each maintenance task is carried out and an understanding to the responses of the grass plant to each (as outlined in this book). Armed with this knowledge a quality turf grass surface will be guaranteed.

It is also important to note that many mechanical operations can be carried out as and when necessary (we do not have to stick religiously to calendar dates!) as long as the turf is growing vigorously enough to recover. The calendar below acts as a guide. It is not designed to be exact (For a more detailed calendar see page 5) but gives you the lawn owner a good idea as to when you may think about carrying out any particular procedure or operation during the year.

The descriptions found after the *'little maintenance calendar'* explain the importance and relevance of each operation and lead you to further pages of the book for more detailed explanations if required.

The little maintenance calendar

	Mow	Irrigate	Feed	Aerate	Scarify	Top-dress	Weed control	Disease control	Moss control	Renovate	Apply seed	Lay turf
January				☉				When needed				
February				☉				When needed				☉
March	☉			☉			☉	When needed			☉	☉
April	☉	☉	☉	☉	☉	☉	☉	When needed		☉	☉	☉
May	☉	☉	☉	☉	☉	☉	☉	When needed		☉	☉	☉
June	☉	☉		☉		☉		When needed				☉
July	☉	☉		☉		☉		When needed				☉
August	☉	☉	☉	☉	☉	☉	☉	When needed	☉		☉	☉
September	☉	☉	☉	☉	☉	☉	☉	When needed	☉	☉	☉	☉
October	☉	☉		☉			☉	When needed		☉		☉
November	☉			☉				When needed				☉
December				☉				When needed				

Mowing – Should be carried out according to growth. There is no set time for commencing mowing operations or finishing them this is purely dependant upon growth. Removal of clippings can increase the amount of fertiliser needing to be applied to the lawn over the year. The higher the height of cut set the stronger the plant will become. Even a very slight increase in the height of by 1 mm will enable the grass plant to photosynthesis more efficiently. The plants root depth will be proportional to the height of cut. See pages 12 - 15.

Irrigation – Irrigation practices should encourage root growth. Heavy and infrequent applications are best. Irrigation should only be carried out when necessary. See pages 22 – 23.

Nutrition – Carried out as and when needed. Optimum root and shoot growth periods to aim for will be during the spring and early autumn correct application at these times can greatly improve the colour, density and quality of a sward while ensuring fast recovery of any wear that may have occurred. However, light applications of nitrogen or iron during the summer period (if irrigated properly) can improve colour and leaf vigour. See pages 17 – 21.

Aeration – This is vital for root growth and general plant development. If also carried out during the summer period when the soils oxygen demand is high improvements in plant growth will be encouraged as will increases in the natural process of thatch reduction. Aeration work carried out during the colder months will improve water infiltration rates into the soil and speed up the rate at which it moves through the soil, keeping the surface relatively dry while allowing the soil to warm up quickly when spring arrives. During the summer it aids the growth of the plant and helps decompose thatch. See pages 24 – 27.

Scarification/Verti-cutting – Can be carried out frequently to remove and control thatch. No more than two directions the second being 45° to the first. If scarification is to be carried out frequently it is advisable only operate in one direction each occasion. The grass plant must be growing vigorously to

ensure speedy recovery. A light application of fertiliser two weeks prior to scarifying or will encourage a speedy recovery. Verti-cutting is less damaging and can be carried out more frequently. Irrigation will be vital to ensure recovery after this operation. See pages 28 - 31 and 22 – 23.

Top-dressing – Should be carried out infrequently (twice per year). Applied heavily after aeration practices such as hollow-tining to improve the soils texture, structure, drainage, and aeration properties. Frequent light dressings are recommended if a smooth surface is required, light frequent dressings also prevent thatch build-up. See pages 32 – 33.

Weed control – To achieve a true, dense and uniform lawn, surface weeds will need controlling periodically (see yearly maintenance planner for timings). The best defence against weed growth will be a dense turf surface that prevents the weed seeds from germinating. Identification of weeds and control measures can be found on pages 60 – 73.

Disease control – Diseases can be a problem any time of the year. With good maintenance practices proneness to disease will decrease. However, diseases are often encouraged by heavy and late applications of nitrogen (after late September), top-dressing material that has a high lime content, poor irrigation practices but, most importantly, the environmental conditions such as soil moisture, soil and air temperature, humidity, pH of the soil etc. Environmental influences are mostly beyond our control but the management techniques carried out incorrectly can encourage outbreak and attack of disease.. Correct cultural practices will be the best defence against disease. See pages 47 - 55

Moss control – Most effective if treated during the autumn time. Control can also be achieved during spring. The whole plant should be dead before removal from the sward. See pages 43 – 44.

Renovation – Carried out during spring and/or autumn when shoot and root growth is at maximum due to the naturally occurring high moisture levels and raised temperatures associated with these seasons. Prepares and repairs the turf area for the seasons use ahead. See pages 34 – 36.

Application of seed/laying of turf – Essentially these operations can be carried at any time indicated. Irrigation should be applied after seeding or turfing from late spring to autumn if dry weather is encountered or forecast. Application of seed early spring must be complemented through the summer period with irrigation if death through desiccation of the newly germinated plants is to be avoided. See pages 37 - 42

	<ul style="list-style-type: none"> - Top-dress - Aerate the soil and thatch layer - Seed any worn areas after aeration - Establish edges 	
October	<ul style="list-style-type: none"> - Set mower at winter height of cut - Apply seed early or lay turf mid to end of month - Mow as growth dictates - Aerate this month if unable to do so during September - Remove any falling leaves immediately - Brush the lawn stiffly twice this month (before mowing) - Possible to turf at this time - Apply iron fertiliser 	<p>1- 2" would benefit lawns</p> <p>See pages 37 - 39</p>
November	<ul style="list-style-type: none"> - Only mow if necessary - Keep off the lawn during frost - Continue removing any fallen leaves - Watch for disease - Possible to turf at this time 	
December	<ul style="list-style-type: none"> - Oil moving parts of maintenance equipment - Keep turf clear of debris - Keep off during frost - Watch for disease - Lightly aerate soil with fork or solid tines if soil in correct condition 	

Note - To prevent leaf yellowing or death from dog urine apply water to area immediately after

For further information on operations see:

Pages 12 - 16 for Mowing

Pages 17 - 21 for Fertilisation

Pages 22 - 23 for Irrigation

Pages 24 - 27 for Aeration

Pages 28 - 31 for Scarification

Pages 32 - 33 for Top dressing

Pages 37 - 39 for Turfing

Pages 39 - 42 for Seeding

Pages 43 - 44 for Moss control

Pages 47 - 55 for Diseases

Pages 60 - 73 for Weed control

Pages 75 - 76 for Thatch

All the technical terms used are described and explained within Chapter 3 'The maintenance procedures' and a glossary of terms can be found at the rear of the manual.