Turf Maintenance Guide

Village Green

PARTY

plus Village Green's competitive advantages

www.villagegreenturf.com.au

Why Village Green?



Village Green is a proven top performer across high use sports fields, public open spaces, high traffic areas and backyards. Village Green takes the guess work out of specifying when you need a turf with outstanding advantages. Here's why choosing Village Green is the answer.



Village Green (L) versus common kikuyu (R)

Superior density more shoots per square metre

Advantages include:

- Increased wear tolerance.
- Quicker recovery after wear.
- Ability to maintain full cover even under severe drought or low nutrient conditions.
- Less weed invasion.
- Ability to handle very low mowing heights.
- Research indicates Village Green is 26% denser than common kikuyu.



Village Green (L) versus common kikuyu (R)

Efficient root system more roots per square metre

Advantages include:

- Increased efficiency of water and nutrient uptake.
- Better drought tolerance.
- Increased surface stability.
- Reduced risk of nutrient leaching.
- Research indicates Village Green has double the root volume versus common kikuyu.







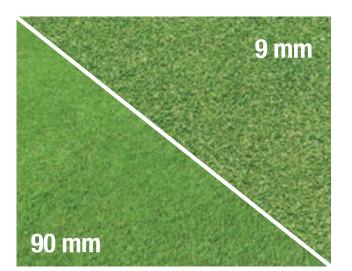
Village Green (L) versus common kikuyu (R)

Superior appearance compact growth habit and dark green colour

Advantages include:

- Better presented surfaces.
- Less need for fertiliser.
- Good first impression for users of the surface.
- Greater resistance to weeds.



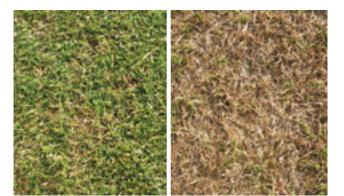


Outstanding versatility

Advantages include:

- Mowing heights from 9 mm to 90 mm.
- A wide range of uses from hockey to racetracks.
- Use in low maintenance environments e.g. community ovals; through to high profile sports fields.
- Used in environmental stablisation control.





Village Green (L) greener longer in winter versus common kikuyu (R)

Superior winter activity

Advantages include:

- Less need for over sowing in cold regions.
- Better turf performance during winter.
- Less need for re-turfing at end of winter.
- Can be grown in colder regions.



WA Turf Maintenance Guide

Easy to follow information and guidance on how to achieve the optimum performance from Village Green turf, year after year. With site specific site maintenance, Village Green turf will remain green and active, and deliver a high performing, attractive surface throughout the year in the southern Western Australia region.



General watering guide

As a guide, Village Green turf should be irrigated using the following irrigation schedule during the warmer months from October to April.

Weekly irr	igatior	n requi	remen	its (mn	n)		
	Oct	Nov	Dec	Jan	Feb	Mar	Apr
Active	25	35	40	40	40	35	10
Passive	16	22	27	27	27	22	7

To achieve an optimum surface, apply a wetting agent at least twice during the warmer months at a rate of 50 L/ha to avoid dry patch.

Ensure the irrigation system is working properly and delivers an even coverage of water. Poor sprinkler maintenance leads to patchy turf.

Use a corer or a handheld moisture probe to test the soil moisture levels. Ideally, install a soil moisture probe to enable continuous soil moisture monitoring in real time.

Keep the soil moist throughout the irrigation season.



Under the same conditions the results of UWA research showing the benefits of applying a wetting agent (R)



Catch cups can be used to determine precipitation rates and uniformity of irrigation systems



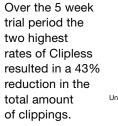
Frequency

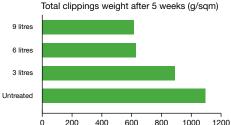
Mow more frequently if required. It is important not to allow excessive growth. Regular low mowing is beneficial for reducing the risk of thatch development.

As a rule, lower mowing heights require greater frequency of mowing and result in a denser sward.



To reduce mowing frequency, apply a growth retardant such as Clipless or Primo at 2.5–5 L/ha in early December, repeat in February if required (see results from trial below).





Turf height gauge

Height

Recommended mowing he	eights for Village Green turf
Cricket	10–15 mm
AFL Football/Soccer	20–25 mm
Recreation areas	20-30 mm
Rugby Union/League	25-40 mm
Horse racing	80–100 mm

Village Green turf (and kikuyu in general), mown at heights above 30 mm can become stemmy and prone to scalping. Frequent and lower mowing on sports fields and high profile public spaces helps avoid this. Rugby fields and racetracks require a longer sward, and the turf can be allowed to grow up to heights of 40–100 mm. However, at the end of the season it is important the turf is renovated and mown down to soil level. Village Green turf will recover quickly from renovation.

Mower type

Using the correct mower can also impact turf quality and performance. A heavy deck rotary mower such as the Pegasus, is ideal for most situations. For a first-class finish where a tight, low mown surface is required (i.e. small ball sports) then a cylinder mower is recommended.



Under the same conditions UWA turf research shows the difference in mowing height with low mown at 10 mm (L) and mown at 50 mm (R)



Nitrogen

The most important nutrient for managing Village Green is nitrogen. Critical application times for nitrogen-based fertilisers are September/October and April/May.

The best way to determine if nitrogen is required is by leaf analysis. As a guide, maintain leaf levels between 2.0–2.5% during the warmer months (test in September) and above 3.0% during the cooler months (test in April). It is advised to seek professional advice on interpreting results.

Adhering to this regime will keep the turf actively growing and green all year round, even in areas prone to frost. On newly established sites, nitrogen fertiliser should be applied more frequently at lighter rates, especially during winter and early spring.

Avoid applying excessive amounts of nitrogen during the warmer months unless the site is high-profile and frequent mowing is planned. Nitrogen promotes vigorous growth which leads to thatch build-up. On sporting fields, close monitoring of nitrogen, iron and manganese is required to maintain a dense and active growing surface.

Other nutrients

Decisions on nutrient type and rate of application should be based on leaf and soil analyses.



The effect of leaf nitrogen status at 1.5% (L) versus leaf nitrogen status at 3% (R) in winter



Response of iron and manganese foliar application (L) versus untreated (R)

Renovation and improved winter performance



Vertimowing



Coring



Sand topdressing

Renovation

Thatch build up and renovation needs can be reduced by regular low mowing and avoidance of excessive nitrogen applications. Adherence to a site specific maintenance schedule will assist in controlling turf during the rapid growth season. If renovation is required then it should occur during the warmer months.

Frequent mowing regime will provide an exceptional playing surface with minimal need for weed control and reduced renovation requirements.

Should thatch build up the following renovation measures should be undertaken.

- 1. Vertimow or scarify to remove surface thatch.
- 2. Mow to near ground level (10 mm).
- 3. If a mat layer is present, core to a 100 mm depth. Use hollow tynes in sandy soils and solid tynes for heavy soils.
- 4. Top dress turf with 5–10 mm sand and brush or run in. Ensure top dress material matches the original profile.

Improved winter performance

Village Green turf has a greater cold tolerance than other warm season grasses. To maximise the turf's colour and vigour, the following practices should take place in late autumn:

- 1. Mow to 15–20 mm.
- 2. Apply a layer of compost and sand at 50 cubic meters/ha.
 - A. If compost is unavailable, apply a nitrogen based fertiliser such as sulphate of ammonia.
 - B. Apply the same fertiliser again mid/late winter when not using compost.
- 3. Should frost damage occur mow low to remove the damaged leaf.





May June Topdressing with compost improves cold tolerance and promotes winter growth July

	Renovate if required	Renovate								if required	Renovate if required	Renovation
				; if required	Treat broadleaf weeds if required	Treat br						Weeds
Apply growth retardant e.g. Primo 2.5–5 L/ha										Apply growth retardant e.g. Primo 2.5–5 L/ha		Growth retardant (If required)
		Apply wetting agent at 50 L/ha									Apply wetting agent at 50L/ha	Wetting agent
		Apply fertilisers based on testing	Apply fertil on te	nitrogen on lls or greater onths	Apply some additional nitrogen on high use ovals Vlaintain nitrogen at 3.0% or greater during cooler months	Apply sc Maintain du	Apply fertilisers based on testing	Apply fertii on te	r if leaf tissue ain nitrogen % during s	Only apply nitrogen fertiliser if leaf tissue levels <2%. Ideally maintain nitrogen levels between 2.0–2.5% during warmer months	Only apply ni levels <2% levels bet v	Application of fertilisers
		Soil and leaf analysis to determine fertiliser programme for warmer months	Soil and le to determi prograr warmer				Soil and leaf analysis to determine fertiliser programme for cooler months	Soil and k to determi prograu cooler				Soil and leaf analysis
Mow at least weekly	Mow at		vth/use	Mow 7–10 days depending on growth/use	7–10 days de	Mow			Mow at least weekly	Mow at le		Mowing
25 mm/week 35 mm/week 40 mm/week	35 mm/wee	25 mm/week	Irrigate depending on weather	Irrigation can be used in winter on sports fields for watering in fertiliser and pesticides	ion can be used in winter on : fields for watering in fertiliser and pesticides	Irrigation ca fields	Irrigate depending on weather	10 mm/week dependant on weather	35 mm/week	40 mm/week 40 mm/week 35 mm/week	40 mm/week	Irrigation
November December		September October	September	August	July	June	May	April	March	February	January	

www.villagegreenturf.com.au

WA Maintenance Calendar – active sports fields

