

**DISEASE MANAGEMENT:**

Be on **HIGH ALERT** as soon as your **humidity plus temperature in Fahrenheit is 150 or more!** e.g. 75 % humidity + 23, 9 degrees C (75 degrees F)

DISEASE	PRODUCT	TIMING	RATE	TURF TYPE	APP TIMING	HIGH RISK PERIOD
Anthracnose: SC/ WC	Heritage	Use preventatively	560g/ha every 14 days	GREENS: BENT/ POA ANNUA (All areas)	Dec, Jan, Feb	Jan-Feb
			1120 g/ha every 28 days			
			2-3 sequential applications			
Brown Patch - All regions	Heritage	Use preventatively	560g/ha every 14 days	GREENS: BENT/ POA ANNUA (All areas)		
			1120 g/ha every 28 days			
			2-3 sequential applications			
Brown Patch - All regions	Heritage	Use preventatively	560g/ha every 14 days	FAIRWAYS: KIKUYU/ BERMUDA		
			1120 g/ha every 28 days			
			2-3 sequential applications			
Dollar Spot - All regions	Banner		2 litres/ha every 7-14 days	GREENS: BENT/ POA ANNUA (All areas)	Sept - March	
			if tank mixed with Daconil WS			
	Banner		4 litres/ha every 14 – 28 days	GREENS: BENT/ POA ANNUA (All areas)		
			Apply 3 or more consecutive applications before changing to Daconil WS.			



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DISEASE	PRODUCT	TIMING	RATE	TURF TYPE	APP TIMING	HIGH RISK PERIOD
Dollar Spot - All regions	Banner		2 litres/ha every 7-14 days	GREENS: BERMUDA/ PASPALUM		
			if tank mixed with Daconil WS			
	Banner		4 litres/ha every 14 – 28 days			
			Apply 3 or more consecutive applications before changing to Daconil WS.			
Fairy Ring - All regions	Heritage		1120 g/ha in 1600 litres water/ha	GREENS: BENT/ POA ANNUA (All areas)		
			Apply as soon as symptoms 1 <sup>st</sup> appear.			
			Add Qualibra for best results.			
			Do a follow up application after 28 days			
Fairy Ring - All regions	Heritage		1120 g/ha in 1600 litres water/ha	FAIRWAYS: KIKUYU/ BERMUDA		
			Apply as soon as symptoms 1st appear.			
			Add Qualibra for best results.			
			Do a follow up application after 28 days			



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DISEASE	PRODUCT	TIMING	RATE	TURF TYPE	APP TIMING	HIGH RISK PERIOD
Grey Leaf Spot	Heritage	Use preventatively	560 g/ha every 14 days	GREENS: BERMUDA/ PASPALUM		
			1120 g/ha every 28 days			
			2 sequential applications			
Leaf Rust, Stem Rust, Stripe rust	Heritage	Use preventatively	560 g/ha every 14 days	GREENS: BERMUDA/ PASPALUM		
			1120 g/ha every 28 days			
			2-3 sequential applications			
Leaf Spot, (Bipolaris spot)	Heritage	Use preventatively	560 g/ha every 14days	GREENS: BERMUDA/ PASPALUM		
			1120g/ha every 28 days			
			2-3 sequential applications			
Melting out (Dreschlera)	Heritage	Use preventatively	560g/ha every 14 days	FAIRWAYS: KIKUYU/ BERMUDA		
			1120g/ha every 21 days			
			2-3 sequential applications			
Microdochium patch (Fusarium Patch) - WC, SC, GAU, E/C	Heritage	Use preventatively	560 g/ha every 14 days	GREENS: BENT/ POA ANNUA (All areas)	July August	
			1120 g/ha every 28 days		August	
			2-3 sequential applications			



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DISEASE	PRODUCT	TIMING	RATE	TURF TYPE	APP TIMING	HIGH RISK PERIOD
Pythium Blight & Pythium Root rot	Heritage	Use preventatively	1120g/ha every 10-14 days	GREENS: BENT/ POA ANNUA (All areas)		
			2 sequential applications			
Pythium Blight & Pythium Root rot	Heritage	Use preventatively	1120g/ha every 10-14 days	FAIRWAYS & TEES: Cool season		
			2 sequential applications			
Red Thread		Use preventatively	560g/ha every 14 days	FAIRWAYS & TEES: Cool season		
			1120g/ha every 21 days			
			2-3 sequential applications			
Summer Patch		Use preventatively	560g/ha every 14 days	FAIRWAYS & TEES: Cool season		
			1120g/ha every 21 days			
			2-3 sequential applications			
Take All Patch	Heritage	Use preventatively	1120g/ha every 28 days	GREENS: BENT/ POA ANNUA (All areas)		
			2-3 sequential applications			



**HERITAGE** is a protectant (preventative) fungicide with **EARLY CURATIVE AND ERADICANT ACTIVITY**. **HERITAGE** also stops disease sporulating and **PREVENTING FURTHER SPREAD** of infection.

Heritage has a **FANTASTIC GREENING EFFECT** - improves N efficiency in the plant, **DELAYS SEEDING** and **DECREASES TRANSPIRATION**



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**MERIDIAN** - increases root depth and mass as well as controls larval/juvenile mole crickets, white grubs and ants.

**INSECT CONTROL:** 60 day residual in soil so rather be too early than too late. When you see adult insects this is the time to quickly spray if you have not yet. This is your final warning prior to egg laying.

**AFTER 1<sup>ST</sup> RAINS: TANK MIX**

MERIDIAN 1,2kg/ha  
KARATE 1 litres/ha

Water in with 6 – 9 minutes irrigation immediately on greens, tees & cool season fairways. Water in with 6mm of irrigation within 24 hours of application on warm season fairways & tees.

**Do a follow up application 60 days later.**

INSECTS	KARATE	MERIDIAN
Mole Cricket		-
Cutworm	-	
White grub		-
Termites		-
Ants		-
Crickets		-
Black maize beetle		-

*TMX = Thiamethoxam*  
Mode of action Thiamethoxam – interferes with nicotinic acetylcholine receptors of the insect's nervous system



WHITE GRUBS



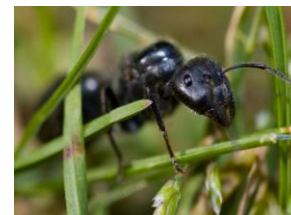
CRICKETS



BLACK MAIZE BEETLE



TERMITES



ANTS



MOLE CRICKET



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Spring Dead Spot: (Kikuyu Patch - Treat in autumn)

Although the symptoms of this disease are seen in spring it needs to be treated in autumn.

**PREVENTATIVE:**

Banner 2 litres/ha in early March & follow up 21 days later

**CURATIVE:**

Banner 4 litres/ha in early March & follow up 21 days later



# #1 - SPRING DEAD SPOT CONTROL



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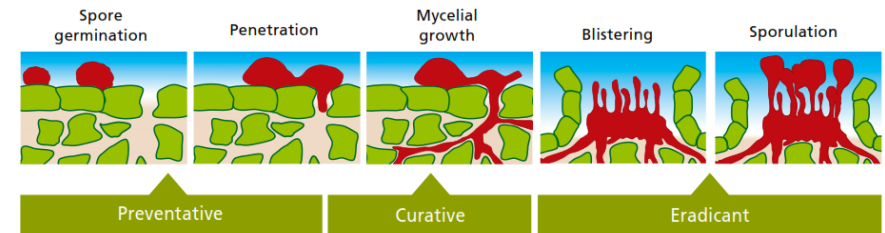
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# TURF DISEASE MANAGEMENT:

DISEASE	HERITAGE	BANNER	DACONIL
Anthracnose	-	-	
Brown patch	-	-	-
Fairy ring	-		
Superficial Fairy Ring	-		
Microdochium patch	-		
Grey leaf	-		
Leaf Rust, Stem Rust, Stripe Rust	-	-	
Leaf spot/Melting-Out	-	-	-
Necrotic Ring Spot	-		
Pythium blight	-		
Pythium root rot	-		
Red Thread	-		
Summer patch	-		
Take All	-		
Dollar Spot		-	-
Fading out			-
Powdery mildew		-	
Fusarium Patch	-		
Spring Dead Spot	-	-	



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**AQUATIC WEED CONTROL:**

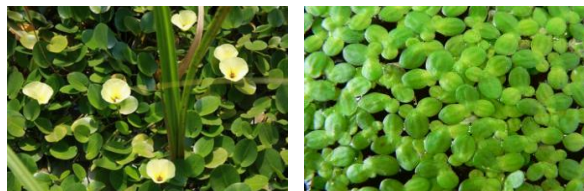


**MIDSTREAM RATES:**

Floating aquatic weeds: 7,5 – 10 litres/ha

Submerged aquatic weeds: 50 litres/ha

Remember to only spray 25% of the dam surface at a time. The weeds use up oxygen when they breakdown & this allows for insufficient oxygen for the fish.



WEEDS	SPECIES	PEAK	SERVIAN	MIDSTREAM	TOUCHDOWN
Control of aquatic weeds				-	
All weeds and Grasses					-
Black jack	Bidens pilosa		-		
Spindlepod			-		
Yellow nutsedge	Cyperus esculentus L.		-		
Purple nutsedge	Cyperus rotundus L.		-		
Gallant soldier	Galinsoga parviflora		-		
Khaki weed	Tagetes minuta		-		
Common pigweed	Amaranthus hybridus		-		
Large thorn apple	Datura ferox		-		
Dubbeltjie	Tribulus terrestris		-		
Cocklebur			-		
Pimpernel		-			
Goosefoot	Chenopodium	-			
Fumitory	Fumaria muralis	-			
Prostrate Knotweed	Polygonum aviculare L.	-			
Wild Radish	Raphanus raphanistrum	-			
Chickweed	Stellaria media (L.) Vill	-			
Vetch	Vicia acutifolia Ell.	-			
Goosegrass	Eleusine indica (L) Gaertn				



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**CALIBRATION IS KEY.**

For **OPTIMUM APPLICATION** results the **SYNGENTA NOZZLE** is now available in South Africa!

Foliar nozzle application chart



Nozzle	Pressure (bar)	Flow rate per nozzle (l/min)	Application rate l/ha at respective forward speed (km/hr)					
			3	4	5	6	7	8
04	1	0.924	370	277	222	185	158	139
	1.5	1.131	453	339	272	226	194	170
	2	1.306	523	392	314	261	224	196
	2.5	1.461	584	438	351	292	250	219
	3	1.60	640	480	384	320	274	240
	3.5	1.728	691	518	415	346	296	259
	4	1.848	739	554	443	370	317	277

Other Syngenta Turf XC Nozzle sizes available: **025**- Foliar fungicide, herbicide and growth regulator applications at faster speeds. **08**- soil-acting fungicide and wetting agent applications.

■ Optimum range

Foliar nozzle application chart



Nozzle	Pressure (bar)	Flow rate per nozzle (l/min)	Application rate l/ha at respective forward speed (km/hr)					
			3	4	5	6	7	8
08	1	1.848	739	554	443	370	317	277
	1.5	2.263	905	679	543	453	388	339
	2	2.163	1045	784	627	523	448	392
	2.5	2.921	1168	876	701	584	501	438
	3	3.20	1280	960	768	640	590	480
	3.5	3.456	1383	1037	830	691	638	518
	4	3.695	1478	1109	887	739	682	554

Other Syngenta Turf XC Nozzle sizes available: **04** - Foliar fungicide, herbicide and growth regulator applications at faster speeds. **025** - Foliar fungicide, herbicide and growth regulator applications at slower speeds.

■ Optimum range



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