Disease Chart for Turf Varieties

BROWN PATCH

ANTHRACNOSE

		(WAITEA PATCH)					
Cool & Warm Season	Cool Season	Cool & Warm Season	Cool & Warm Season	Cool & Warm Season	Cool & Warm Season		
Creeping Bentgrass Poa Annua	Most species of cool season turfgrass	Creeping Bentgrass Poa Annua	Most species of warm & cool season turfgrass	Most species of warm & cool season turfgrass	Bermudagrass Kikuyu Perennial Ryegrass Tall Fescue		
LEAF, STEM, STRIPE RUST	MICRODOCHIUM Patch	POWDERY MILDEW	PYTHIUM BLIGHT	PYTHIUM ROOT ROT (ROOT DYSFUNCTION)	RED THREAD		
Cool & Warm Season	Cool Season	Cool & Warm Season	Cool & Warm Season	Cool & Warm Season	Cool & Warm Season		
Bentgrass Kentucky Bluegrass Perennial Ryegrass Tall Fescue Zoysiagrass	Most species of cool season turf	Bermudagrass Fine-Leaf Fescue Kentucky Bluegrass Perennial Ryegrass	Most species of warm & cool season turfgrass	Annual Bluegrass & Creeping Bentgrass most susceptible. Bermudagrass and Seashore Paspalum can also be affected.	Bermudagrass Creeping Bentgrass Fine-Leaf Fescue Kentucky Bluegrass Perennial Ryegrass Poa Annua		
SPRING DEAD SPOT	SUMMER PATCH	LEAF SPOT/ MELTING TAKE-ALL PATCH OUT		TAKE-ALL ROOT ROT (BERMUDA GRASS DECLINE)	COOL SEASON		
Warm Season	Cool Season	Cool & Warm Season	Cool & Warm Season	Warm Season	BENT GRASS		
					FESCUES		
Ultra-Dwarf Bermuda Bermudagrass	Fine-Leaf Fescue Kentucky Bluegrass	Creeping Red Fescue Kentucky Bluegrass	Colonial Bentgrass Creeping Bentgrass	Bermudagrass Ultra-Dwarf Bermuda	KENTUCKY BLUEGRASS		
Buffalograss Kikuyu Zoysiagrass	Poa Annua	Perennial Ryegrass Poa Annua Tall Fescue			POA ANNUA (ANNUAL BLUEGRASS)		
		Some varieties of			RYE		
		Bermudagrass			TALL FESCUE		

BROWN RING PATCH

DOLLAR SPOT

FAIRY RING

GREY LEAF SPOT

LARGE PATCH

Warm Season

Bermudagrass

Kikuyu

Paspalum

Zoysiagrass

RHIZOCTONIA ZEAE (RHIZOCTONIA LEAF &

SHEATH SPOT)

Cool & Warm Season

Most species of

warm & cool season

turfgrass

COOL SEASON	WARM SEASON					
BENT GRASS	BEREA (LM)					
FESCUES	BERMUDA					
KENTUCKY BLUEGRASS	BUFFALOGRASS					
POA ANNUA (ANNUAL BLUEGRASS)	KIKUYU					
RYE	PASPALUM					
TALL FESCUE	ULTRA-DWARF BERMUDA					
	ZOYSIA					

KEY APPLICATION TIPS

ENSURE WATER PH IS 6.5 BEFORE ADDING PRODUCT:

- ✓ SOIL BORNE DISEASES (WATER IN IMMEDIATELY) – Example: Fairy Ring, Pythium root rot, Summer Patch, Take-all Patch
- ✓ FOLIAR DISEASES (LEAVE ON THE LEAF FOR AT LEAST 3 HOURS) – Example: Brown Patch, Dollar Spot, Pythium Blight, Microdochium
- CROWN AND LEAF SHEATH DISEASES (NOT TO WATER IN) – Example: Brown Ring Patch and Large Patch
- ✓ Products NOT TO WATER IN Daconil Weatherstik (multi-site product to reduce the risk of resistance), Instrata, Subdue Maxx, Primo Maxx, Ryder
- ✓ Products to WATER IN IMMEDIATELY Qualibra: Subdue Maxx should ONLY be watered in if applied for Pythium root rot
- COMPATIBILITY Qualibra is compatible with Karate, Meridian, Heritage/Heritage Maxx, Subdue Maxx
- POA MANAGEMENT Tank mix Primo Maxx & Cultar (Don't apply Cultar within 14 days of Banner Maxx or Headway Maxx)
- ✓ WEED CONTROL:
 - Fence/paving kill off 3 litres/ha Fusilade Forte & follow up 21 days later – slow kill, but long-term kill.
 - Add 2 litres/ha Pennant Magnum as a preemergent for grass and weeds. (Pennant Magnum – must be applied to moist soil & water in within 24 hours.)
- ✓ NB TO DO FOLLOW UP APPLICATIONS FOR



					SYNG	ENTA PRODUC	TS APPLICATIO	N TIMING							
DISEASE	TIMING	FAVOURING AIR TEMP	FAVOURING SOIL TEMP	BANNER MAXX	DACONIL WS	HERITAGE	HERITAGE MAXX	HEADWAY MAXX	INSTRATA	SUBDUE MAXX	QUALIBRA	MERIDIAN	CASPER	PENNANT MAGNUM	PRIMO MAXX
	Active ing	redient		Propiconazole	Chlorotholanil	Azoxystrobin	Azoxystrobin	Azoxystrobin, pyrimidin-4-yloxy, Propiconazole	Chlorothalonil, Propiconazole, Fludioxonil	Mefenoxam	-	Thiamethoxam	Dicamba, Prosulfuron	S-metolachlor	Triexapac- ethyl
Algae	Dec - March	Warm, overcast and rai	ny						11441511						
Anthracnose	Dec - Feb	15 - 25 ℃	•												
Bentgrass Dead Spot		Sunny, hot dry weathe	r												
Bacterial Wilt		Times of heavy rainfall	or cloudy weather.												
Brown Patch	Sept - April	>30 °C - day time >15 °C - night time													
Brown Ring Patch (Waitea Patch)	Sept - April	18 - 30 °C													
Crabgrass	0ct	13 ℃													
Dollar Spot	Sept - April	15 - 30 °C (High Humidity)													
Dry Spots	Sept - April	Localised Dry Spots													
Fading Out	Dec - Feb	25 - 35 ℃													
Fairy Ring	May - Aug		15-18 °C												
Goosegrass	Nov - Jan		16 °C												
Grey Leaf Spot	Aug - April	26 - 32 °C													
Large Patch (Kikuyu Patch)	Aug - April	10 - 15 °C (High Humidity)	18 °C or lower												
Leaf Spot Bipolaris		21°C - 35°C with high moisture	Warm weather with frequent wet cycles												
Leaf Spot Dreschlera	Sept - Nov and March - May	When weather is chilly long periods.	rainy and overcast for												
Leaf/ Stem/ Stripe Rust	Aug- April	18 - 30 °C													
Melting Out		4°C - 24°C	Cool areas where wetness occurred for more than 10 days												
Microdochium Patch	Jun - Aug	1 - 15 °C													
Mole Cricket	Sept - Jan	Apply Meridian after fi Days later.	rst rain / follow up 60												
Necrotic Ring Spot		20 °C - 28 °C	Cool wet conditions												
Plant Growth Regulator	Jan - Dec		>10 °C												
Poa Annua	March, April, Jul	Seed germinates in Au peratures decline to 21	tumn when soil tem- °C												
Powdery Mildew	Aug - Oct	15 - 22 ℃													
Pythium Leaf Blight		Occurs in a wide tempe heavy rains	rature range but after												
Pythium Root Rot	May - July	>18 °C													
Pythium Root Dysfunction	March - August	10 °C - 24 °C													
Pythium Damping Off		Warm nights over 20 °C 30 °C in high humidity													
Red Thread	Jan - Dec	4 - 29 °C													
Rhizoctonia Zeae (Rhizoctonia Leaf and Sheath spot)		28 - 36 °C													
Seedling Damping Off	After seeding	>20 °C													
Spring Dead Spot	March, April, Sep														
Summer Patch	Nov - Jan	29 °C -day time 21 °C -night time	>18 °C												
Take-all Patch	May - Sept		4 - 15 °C												
Take-all Root Rot (Bermudagrass Decline)	wet weather.	early Winter following pe	riods of overcast, warm-												
White Clover	Nov - Jan														
White Grub	Sept - Jan	Apply Meridian after fi Days later.	rst rain / follow up 60												
Yellow Clover	Nov - Jan														
Yellow Patch															