



NATURALLY POWERFUL DISEASE CONTROL





Naturally Powerful Disease Control

HERITAGE® now offers turf managers the broadest spectrum disease control of all turf fungicides.

- **Broadest spectrum of disease control**
- **Targets disease attack before damage is caused**
- **Long lasting protection**
- **The only systemic strobilurin**
- **Natural origins – ideal for ITM programmes**

The origins of HERITAGE lie in the natural fungicides produced by wood-rotting fungi found on the forest floor.

Syngenta has harnessed the power of these naturally occurring fungicides to produce a truly broad-spectrum turf fungicide, with an excellent environmental profile.

The result is an incredibly powerful fungicide, yet still extremely gentle on turf. The low environmental impact makes HERITAGE a perfect fit for effective Integrated Turf Management (ITM) plans.



HERITAGE provides powerful protection; targeting infection at the very early stages of the pathogen's life cycle and eliminating disease before it has chance to cause damaging effects on the turf.

HERITAGE is a protectant (preventative) fungicide with early curative and eradicant activity. HERITAGE also stops disease sporulating and preventing further spread of infection (Fig 1).

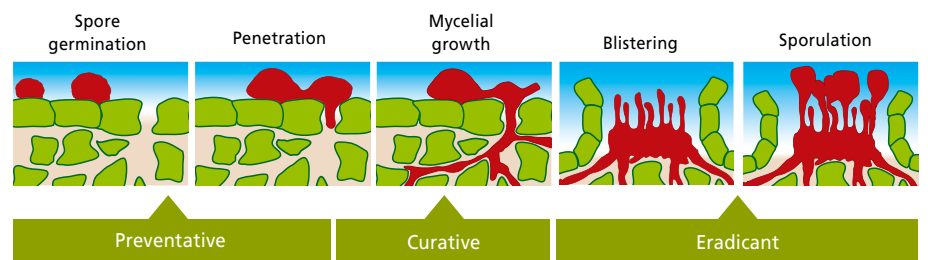


Fig 1. HERITAGE combines powerful protectant properties with effective early curative and anti-sporulant eradicant activity.

Systemic movement

HERITAGE is the only systemic strobilurin fungicide - which effectively protects turf as it grows. HERITAGE is rapidly taken up by actively growing plants and moves through the xylem system, combating disease infection from within the plant.

The true systematic movement works in all conditions and does not rely on rain or air redistribution to reach new parts (Fig 2).

The active ingredient rapidly moves within the plant, continuously spreading into vulnerable new growth and targeting any new disease attack - providing long-lasting protection as the plant grows.

HERITAGE should be the first option fungicide during periods of active turf growth, through spring, summer and autumn. The systemic movement, safe within the plant, ensures disease protection will not be mown off with the first cut after application.

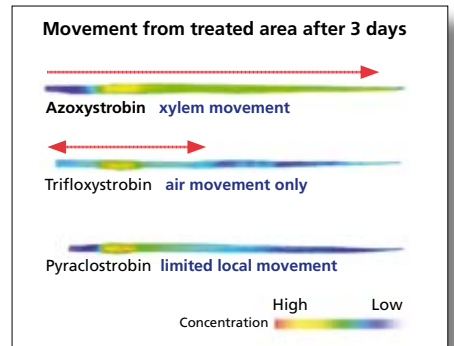
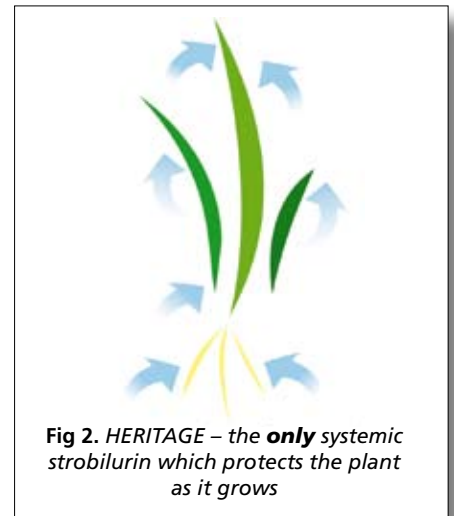


Fig 3. HERITAGE is the only strobilurin with systemic activity to move fungicide protection through the leaf and protect new growth.

Targeting more Disease

HERITAGE now has the widest label approval for the broadest spectrum of turf diseases of any fungicide.



Heritage gives more effective, reliable and consistent control across a broader spectrum of diseases than other strobilurin fungicides.

For further information on disease identification and management refer to the Syngenta Turfgrass Disease Management guide or the web site www.greencast.co.uk

Environmental Attributes

The natural origins and low environmental impact of HERITAGE makes it an ideal choice in modern fungicide programmes.

HERITAGE has no LERAP restrictions, meaning that it is the ideal choice for use alongside water features, lakes and drainage channels - protecting turf quality on some of the most scenic parts of the course. Other strobilurin fungicides have LERAP B, requiring a disease susceptible untreated buffer zone to be left next to water courses.

Greener Greens

New research has shown HERITAGE not only protects turf quality through enhanced disease control, but physiological effects maintain green leaf and great looking turf health.

The physiological benefits of HERITAGE include:

- Delayed senescence keep leaves greener for longer
- Greener leaves photosynthesise more efficiently and can cope with water stress more effectively
- Greater photosynthetic activity produces more carbohydrates to create stronger root systems
- More efficient assimilation of nitrogen achieves better utilization of nitrogen fertiliser

In trials HERITAGE retained green leaf for longer and significantly reduced the visible effects of physiological leaf spots, caused by oxidative stress and premature senescence (Fig 4).

With water use on turf areas a key issue within environmental management programmes, the improved water use efficiency of HERITAGE protected turf can help to reduce turf stress and enhance overall turf vigour (Fig 5).

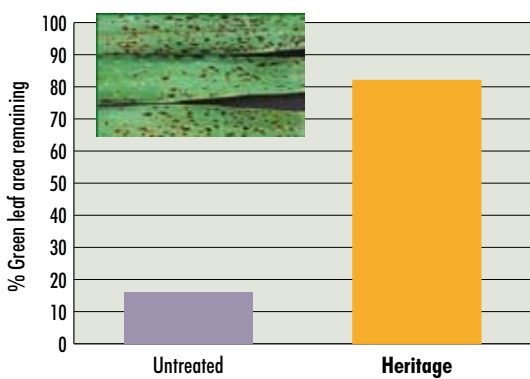
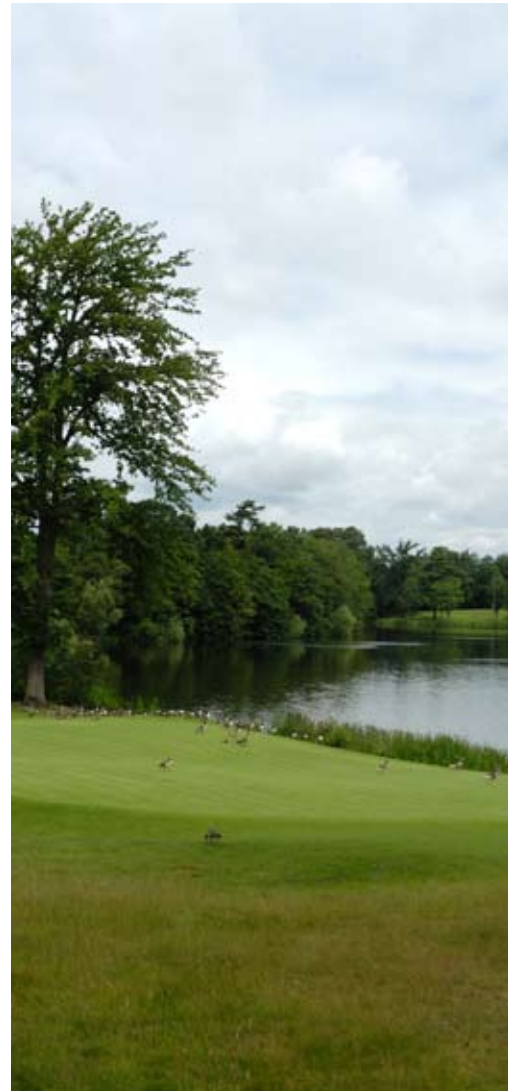


Fig 4. Trials show healthy turf protected by HERITAGE can retain green leaf for longer – with significantly reduced effects of leaf spots (inset).

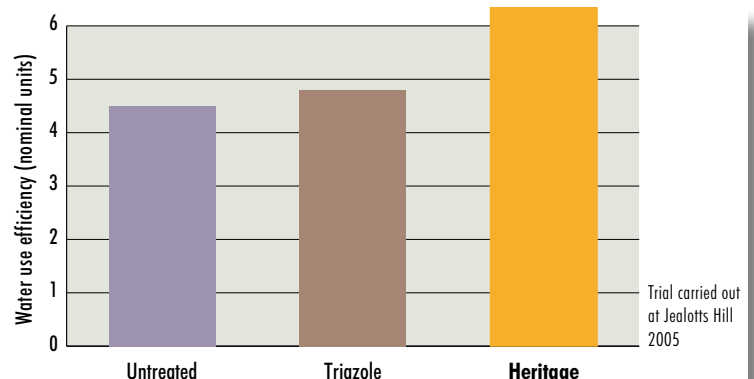


Fig 5. Improved water use efficiency of HERITAGE treated turf can help to maintain healthy vigour and enhance utilisation of other inputs.

Fungicide Programs

HERITAGE is a key component of the Syngenta fungicide portfolio, which now offers a complete three-pronged approach to disease management. Alternating HERITAGE with the systemic BANNER MAXX applications in spring and summer provides effective alternative chemistry and covers the complete spectrum of turf diseases. BANNER MAXX is the most effective fungicide on Dollar Spot. The contact fungicide DACONIL WEATHER STIK gives complete protection from major turf diseases right through the season and in the most difficult weather conditions.

DISEASE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
<i>Microdochium nivale</i> (Fusarium)	DACONIL		DACONIL	BANNER MAXX		HERITAGE	BANNER MAXX		HERITAGE	BANNER MAXX	DACONIL	
Anthraxnose						BANNER MAXX	HERITAGE	BANNER MAXX	HERITAGE	DACONIL		
Dollar Spot					BANNER MAXX	DACONIL	BANNER MAXX	DACONIL	BANNER MAXX			
Brown Patch						HERITAGE	BANNER MAXX	HERITAGE				
Take All Patch						HERITAGE	HERITAGE					
Leaf Spot					HERITAGE	HERITAGE						
Fairy Ring							HERITAGE	HERITAGE				
Rust								HERITAGE	HERITAGE			

Example programmes for high disease pressure situations.

Turf managers may use up to four applications of HERITAGE per year to provide greater flexibility and valuable coverage in high disease risk situations – when other strobilurin fungicides have label restrictions to two applications per year.

For effective resistance management HERITAGE should make up no more than a third of all fungicide applications and should always be rotated with fungicides from the Syngenta portfolio with alternative chemical actions.

Pro-active Protection

For best results and the longest lasting protection, HERITAGE should be pro-actively applied just prior to disease infection.

The interactive web based decision support system – www.greencast.co.uk – provides turf managers and advisors with local disease forecasts of impending infection risks for all key turf diseases.

Validation trials by STRI have demonstrated improved timing of HERITAGE applications, according to GreenCast risk forecasts, can achieve higher levels of disease control from a reduced number of fungicide applications, compared to conventional routine applications.





HERITAGE now gives turf managers an exciting new opportunity to control more disease and keep turf green and healthy for longer.

HERITAGE is used and trusted by more turf managers worldwide than any other strobilurin fungicide.

- **Broadest spectrum of disease control**
 - **Targets disease attack before damage is caused**
 - **Long lasting protection**
 - **The only systemic strobilurin which protects the plant as it grows**
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The Power of Nature – Harnessed by HERITAGE



ALWAYS READ THE LABEL. USE PESTICIDES SAFELY.

HERITAGE® contains azoxystrobin (MAPP 13536), DACONIL WEATHER STIK® contains chlorothalonil (MAPP 12636),
BANNER MAXX® contains propiconazole (MAPP 13167).

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