

DISEASE CONTROL IN WINTER WHEAT

Variety selection

Traditionally, higher yielding wheat varieties have been those that produced the largest response to fungicides. But varieties like KWS Extase, Mayflower and Theodore are breaking the mould in that they yield well but do not get a lot of disease. These varieties come with less risk and allow for meaningful reductions in fungicide spend.

New fungicides

Revystar XE (a.i. fluxapyroxad + mefentrifluconazole) has good eradicant activity against septoria but is less persistent than Univoq (a.i. fenpicoxamid + prothioconazole), so higher doses will be required if application is delayed. **Univoq** gives excellent curative activity combined with superior persistence, making it a useful product where there are long gaps between applications.

For Harvest 2024 there are two new SDHIs; **Adepidyn** (a.i. pydiflumetofen) and **Iblon** (a.i. isoflucypram). These provide a step change in septoria control; however, they are both high risk fungicides in terms of cross-resistance so need good mixture partners.

Untreated Revystar XE Univoq New SDHI



Levels of disease on untreated and treated winter wheat

Current AHDB Recommended List varieties – a guide to responsiveness (based on UK AHDB Recommended List 2023/24)

Response	Variety	Mean yield response to fungicides in 2022 (t/ha)
Low	Mayflower	0.81
	KWS Extase	0.92
	Theodore	1.04
Moderate	KWS Palladium	1.21
	LG Typhoon	1.34
	KWS Ultimatum	1.35
	KWS Dawsum	1.42
	KWS Siskin	1.50
	RGT Illustrious	1.55
	LG Astronomer	1.59
	Costello	1.64
	Graham	1.71
	Oxford	1.77
	LG Redwald	1.81
	Elicit	1.89
	LG Illuminate	1.91
	Champion	1.93
	RGT Wilkinson	1.94
	LG Prince	1.99
	RGT Bairstow	2.00
Merit	2.04	
High	KWS Zealum	2.08
	Crusoe	2.13
	LG Skyscraper	2.13
	RGT Saki	2.14
	RGT Stokes	2.18
	KWS Cranium	2.30
	KWS Brium	2.31
	Elation	2.34
	KWS Jackal	2.37
	RGT Rashid	2.41
	Swallow	2.47
	KWS Firefly	2.53
	Gleam	2.67
KWS Guium	2.69	
Very high	SY Insitor	2.99
	RGT Wolverine	3.38
	Skyfall	3.61
	KWS Zyatt	3.70