AHDB RECOMMENDEDLISTS

Winter wheat 2023/24

Market options, yield and grain quality

	KWS Zyatt	Skyfall	Crusoe	RGT Illustrious	KWS Extase	KWS Ultimatum	KWS Palladium	KWS Siskin	Mayflower	KWS Guium	RGT Wilkinson	LG Prince	KWS Brium	Merit	KWS Firefly	RGT Rashid	LG Illuminate	LG Astronomer	Elicit	LG Redwald	KWS Zealum	LG Skyscraper	RGT Bairstow	RGT Stokes	RGT Saki	Elation	KWS Jackal	Swallow	Champion	SY Insitor	KWS Dawsum	Oxford	Gleam	Graham	KWS Cranium	LG Typhoon	RGT Wolverine	Costello	Theodore	Average LSD (5%)
End-use group	UKFM Group 1				UKFM Group 2					UKFM Group 3										Soft Group 4									Hard Group 4										
Scope of recommendation	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	E	UK	E	UK	UK	UK	E&W	N	UK	UK	UK	N	N	N	UK	UK	UK	E&W	UK	UK	UK	UK	Sp	UK	W	
Variety status		C				NEW		*C			NEW				*				*	NEW	NEW	C				*	*				NEW	C						*	
Fungicide-treated grain yield (% treated control)																																							
United Kingdom (10.9 t/ha)	99	97	96	96	102	101	100	99	97	101	101	101	100	100	100	100	100	99	98	107	103	103	103	102	102	100	99	98	106	104	104	104	103	102	102	101	99	99	99	2.3
East region (10.7 t/ha)	98	97	96	95	102	101	100	99	97	102	102	101	101	101	100	101	100	99	98	107	103	103	103	101	102	100	99	98	107	104	103	104	103	101	103	101	99	99	99	2.7
West region (11.1 t/ha)	99	97	97	97	102	102	101	99	98	100	101	100	100	98	99	97	100	99	97	109	103	103	103	104	101	100	97	98	106	105	105	105	104	105	101	100	100	98	101	3.0
North region (11.3 t/ha)	98	96	94	95	100	[103]	99	99	96	101	[100]	98	100	100	99	98	100	97	99	[103]	[102]	102	103	103	102	101	100	101	102	105	105	[100]	103	102	102	101	100	101	[95]	3.4
Main market options (The specific attributes of varieties are different, so, whenever possible, varieties should not be mixed in store)																																							
UK bread-making	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
UK biscuit, cake-making	-	-	-	-	-	-	-	-	-	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
UK distilling	-	-	-	-	-	-	-	-	-	[Y]	[Y]	[Y]	[Y]	[Y]	-	[Y]	[Y]	[Y]	Y	[Y]	[Y]	[Y]	Y	Y	-	Y	[Y]	Y	-	-	-	-	-	-	-	-	-	-	-	
ukp bread wheat for export	Y	-	Y	-	Y	[Y]	-	Y	[Y]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
uks soft wheat for export	-	-	-	-	-	-	-	-	-	-	[Y]	-	-	Y	Y	-	Y	-	Y	-	-	-	-	-	-	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	
Grain quality																																							
Endosperm texture	Hard	Hard	Hard	Hard	Hard	Hard	Hard	Hard	Hard	Soft	Soft	Soft	Soft	Soft	Soft	Soft	Soft	Soft	Soft	Soft	Soft	Soft	Soft	Soft	Soft	Soft	Soft	Soft	Hard	Hard	Hard	Hard	Hard	Hard	Hard	Hard	Hard	Hard	Hard	
Protein content (%)	12.0	12.0	12.5	12.0	11.7	11.6	11.6	11.6	11.8	11.0	11.2	11.0	11.3	11.3	11.5	11.0	11.5	11.5	11.4	11.1	10.9	11.2	11.1	11.1	11.2	11.3	10.9	11.1	11.2	10.7	11.1	11.3	11.1	11.1	11.1	11.0	10.9	11.6	11.8	0.2
Protein content (%) – milling spec	12.6	13.1	13.4	12.6	12.5	12.3	12.4	12.4	12.8	11.8	[12.0]	12.1	11.9	12.6	12.4	12.1	12.6	12.5	12.4	[11.5]	[12.0]	12.1	12.0	12.1	11.9	12.2	11.9	12.1	12.1	11.2	11.9	[12.4]	11.8	11.9	11.9	11.9	11.7	12.4	12.5	0.5
Hagberg Falling Number	271	290	279	276	294	287	320	297	304	257	264	266	278	269	248	236	262	245	227	172	218	227	239	255	231	220	193	269	251	279	311	218	237	281	293	183	283	324	303	22.6
Specific weight (kg/hl)	78.4	79.2	78.5	78.2	79.4	79.6	77.6	77.5	79.2	78.8	75.4	75.0	78.0	77.1	76.1	77.0	77.0	78.2	77.1	75.5	76.7	77.3	76.8	76.2	76.4	77.5	75.6	76.7	75.5	78.9	80.0	76.0	77.3	77.6	75.8	77.1	76.4	81.2	74.9	0.6
Chopin Alveograph W	[180]	268	239	-	198	189	[189]	168	209	[56]	96	[74]	[74]	85	93	[72]	84	[137]	[93]	-	[63]	-	[50]	[61]	-	[94]	-	-	-	-	-	-	-	-	-	-	[152]	-	-	30.4
Chopin Alveograph P/L	[0.7]	1.0	0.6	-	0.6	0.7	[0.7]	0.6	0.8	[0.3]	0.3	[0.2]	[0.3]	0.2	0.3	[0.3]	0.3	[0.4]	[0.3]	-	[0.4]	-	[0.3]	[0.3]	-	[0.3]	-	-	-	-	-	-	-	-	-	-	[0.7]	-	-	0.2

Varieties no longer listed: KWS Barrel, KWS Kerrin, LG Spotlight and RGT Gravity.
Comparisons of varieties across regions are not valid.
All yields in this table are taken from treated trials receiving a full fungicide and PGR programme.
Protein content (%) – milling spec data are taken from trials managed to a bread-milling protocol.

UKFM = UK Flour Millers
UK = Recommended for the UK
E = Recommended for the East region
W = Recommended for the West region
N = Recommended for the North region

Sp = Specific recommendation. RGT Wolverine has a specific recommendation for resistance to *Barley yellow dwarf virus* (BYDV). Resistance to BYDV has not been verified in RL tests

C = Yield control. For this table, KWS Barrel was also a control variety but is no longer listed
* = Variety no longer under test in RL trials
PGR = Plant growth regulator
[ ] = Limited data

Y = Suited to that market
[Y] = May be suited to that market

LSD = Least significant difference
Average LSD (5%): Varieties that are more than one LSD apart are significantly different at the 95% confidence level

AHDB RECOMMENDEDLISTS

Winter wheat 2023/24

Yield, agronomy and disease resistance

AHDB RECOMMENDED

	KWS Zyatt	Skyfall	Crusoe	RGT Illustrious	KWS Extase	KWS Ultimatum	KWS Palladium	KWS Siskin	Mayflower	KWS Guium	RGT Wilkinson	LG Prince	KWS Brium	Merit	KWS Firefly	RGT Rashid	LG Illuminate	LG Astronomer	Elicit	LG Redwald	KWS Zealum	LG Skyscraper	RGT Bairstow	RGT Stokes	RGT Saki	Elation	KWS Jackal	Swallow	Champion	SY Insitor	KWS Dawsum	Oxford	Gleam	Graham	KWS Cranium	LG Typhoon	RGT Wolverine	Costello	Theodore	Average LSD (5%)
End-use group	UKFM Group 1				UKFM Group 2					UKFM Group 3										Soft Group 4									Hard Group 4											
Scope of recommendation	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	E	UK	E	UK	UK	UK	E&W	N	UK	UK	UK	UK	N	N	N	UK	UK	UK	E&W	UK	UK	UK	UK	Sp	UK	W	
Variety status		C				NEW			*C		NEW				*				*	NEW	NEW	C				*	*					NEW	C						*	
Fungicide-treated grain yield (% treated control)																																								
United Kingdom (10.9 t/ha)	99	97	96	96	102	101	100	99	97	101	101	101	100	100	100	100	100	99	98	107	103	103	103	102	102	100	99	98	106	104	104	104	103	102	102	101	99	99	99	2.3
East region (10.7 t/ha)	98	97	96	95	102	101	100	99	97	102	102	101	101	101	100	101	100	99	98	107	103	103	103	101	102	100	99	98	107	104	103	104	103	101	103	101	99	99	99	2.7
West region (11.1 t/ha)	99	97	97	97	102	102	101	99	98	100	101	100	100	98	99	97	100	99	97	109	103	103	103	104	101	100	97	98	106	105	105	105	104	105	101	100	100	98	101	3.0
North region (11.3 t/ha)	98	96	94	95	100	[103]	99	99	96	101	[100]	98	100	100	99	98	100	97	99	[103]	[102]	102	103	103	102	101	100	101	102	105	105	[100]	103	102	102	101	100	101	[95]	3.4
Untreated grain yield (% treated control)																																								
United Kingdom (10.9 t/ha)	75	70	76	85	97	93	94	87	93	80	87	85	83	84	80	81	87	88	82	92	86	86	87	87	86	80	78	80	93	82	95	89	84	93	82	92	74	86	93	5.6
Agronomic features																																								
Resistance to lodging without PGR (1–9)	8	8	8	7	7	[7]	7	6	6	7	[8]	7	7	6	8	8	7	7	6	[5]	[6]	6	6	5	6	7	7	8	6	6	7	[6]	7	7	8	7	7	7	6	1.4
Resistance to lodging with PGR (1–9)	8	7	7	8	8	7	8	6	7	7	8	8	7	6	8	8	7	9	7	5	8	6	6	6	7	8	6	9	6	7	7	7	7	8	8	7	7	8	8	1.2
Straw length without PGR (cm)	85	85	82	89	91	85	83	84	89	90	83	83	92	88	83	86	83	88	86	94	88	92	91	91	89	82	87	79	88	94	84	85	87	88	89	87	87	84	84	1.6
Straw length with PGR (cm)	75	77	75	80	85	75	78	74	82	82	77	75	85	81	75	79	76	79	77	89	81	83	83	82	81	75	81	73	82	83	76	79	77	80	80	78	77	75	76	1.7
Ripening (days +/- Skyfall)	-1	0	+1	+1	-1	+1	-1	0	-1	+3	+2	+2	+2	+1	0	+3	+1	+1	+1	+2	+2	0	+2	+2	+2	+1	+1	+1	0	+1	+1	+2	0	-1	+3	+1	+2	+2	0	0.7
Resistance to sprouting (1–9)	6	6	6	6	6	[7]	[6]	4	[6]	[6]	[5]	[5]	[6]	[6]	5	[6]	[6]	[6]	5	[6]	[6]	6	[6]	[6]	5	6	6	[5]	[6]	5	[7]	[6]	6	6	[6]	[5]	[6]	6	[6]	1.0
Disease resistance																																								
Mildew (1–9)	7	6	7	7	7	7	8	8	7	5	8	4	7	4	5	4	5	4	6	6	7	7	6	5	5	7	7	6	7	7	8	6	7	6	6	6	6	8	7	1.4
Yellow rust (1–9)	3	3	9	8	8	9	9	9	9	9	7	8	9	8	6	8	7	9	9	7	9	7	8	7	9	8	9	6	8	5	9	9	5	8	9	9	4	9	9	0.6
Yellow rust (young plant) **– see note below**	s	s	r	s	r	r	r	r	r	r	s	r	r	r	s	r	r	r	s	s	r	s	r	r	r	s	s	r	r	s	r	r	s	s	r	r	s	r	r	
Brown rust (1–9)	7	9	3	6	6	6	5	5	6	3	5	7	5	7	5	6	6	8	6	6	5	5	6	5	6	5	5	5	5	6	7	6	6	5	4	6	7	5	8	0.9
Septoria tritici (1–9) – **see note below**	6.1	5.4	6.2	5.7	7.8	6.4	7.4	6.8	8.9	5.1	5.5	5.9	5.6	5.4	5.1	6.4	5.8	6.2	5.0	6.7	5.8	4.9	6.0	6.3	5.4	4.3	5.0	5.3	8.1	6.4	6.4	6.4	5.7	6.7	5.9	7.3	5.9	5.8	9.1	0.9
Eyespot (1–9) – **see note below**	[6]@	[5]@	[5]	[7]@	[4]	[5]	[6]	[4]	[6]@	[5]	[7]@	[4]	[6]	[3]	[4]	[6]	[6]	[5]	[6]	[6]	[6]	[6]	[4]	[6]	[5]	[5]	[5]	[5]	[4]	[5]	[4]	[6]	[5]	[5]	[4]	[5]	[6]	[4]	[4]	[4]	2.0
Fusarium ear blight (1–9)	6	7	7	6	6	7	6	6	6	7	6	6	6	6	5	7	6	6	6	6	7	6	6	6	6	6	6	6	6	7	7	6	6	7	7	6	6	7	5	0.4
Orange wheat blossom midge	-	R	-	-	-	-	-	-	-	R	-	R	-	R	R	R	R	R	R	R	R	R	R	-	R	R	R	R	R	R	-	R	R	-	R	R	-	-	-	

On the 1–9 scales, high figures indicate that a variety shows the character to a high degree (e.g. high resistance).
Comparisons of varieties across regions are not valid.

UKFM = UK Flour Millers
UK = Recommended for the UK
E = Recommended for the East region
W = Recommended for the West region
N = Recommended for the North region

Sp = Specific recommendation. RGT Wolverine has a specific recommendation for resistance to *Barley yellow dwarf virus* (BYDV). Resistance to BYDV has not been verified in RL tests

C = Yield control. For this table, KWS Barrel was also a control variety but is no longer listed
* = Variety no longer under test in RL trials
PGR = Plant growth regulator
[ ] = Limited data

r and s = Young plant resistance (r) or susceptible (s) to yellow rust as shown by UKCPVS tests and RL trial data
@ = Believed to carry the *Pch1* Rendezvous resistance gene to eyespot, but this has not been verified in RL tests
R = Believed to be resistant to orange wheat blossom midge (OWBM), but this has not been verified in RL tests

LSD = Least significant difference
Average LSD (5%): Varieties that are more than one LSD apart are significantly different at the 95% confidence level

AHDB RECOMMENDEDLISTS

Winter wheat 2023/24

Supplementary data

	KWS Zyatt	Skyfall	Crusoe	RGT Illustrious	KWS Extase	KWS Ultimatum	KWS Palladium	KWS Siskin	Mayflower	KWS Guium	RGT Wilkinson	LG Prince	KWS Brium	Merit	KWS Firefly	RGT Rashid	LG Illuminate	LG Astronomer	Elicit	LG Redwald	KWS Zealum	LG Skyscraper	RGT Bairstow	RGT Stokes	RGT Saki	Elation	KWS Jackal	Swallow	Champion	SY Insitor	KWS Dawsum	Oxford	Gleam	Graham	KWS Cranium	LG Typhoon	RGT Wolverine	Costello	Theodore	Average LSD (5%)
End-use group	UKFM Group 1				UKFM Group 2					UKFM Group 3										Soft Group 4												Hard Group 4									
Scope of recommendation	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	E	UK	E	UK	UK	UK	E&W	N	UK	UK	UK	UK	N	N	UK	UK	UK	E&W	UK	UK	UK	UK	Sp	UK	W	
Variety status		C				NEW		*C			NEW				*				*	NEW	NEW	C				*	*				NEW	C						*	
Breeder/UK contact																																							
Breeder	KWS	RAGT	Lim	R2n	Mom	KWS	KWS	KWS	ElsW	KWS	R2n	LimEur	KWS	ElsW	KWS	RAGT	LimEur	LimEur	ElsW	LimEur	KWS	LimEur	RAGT	RAGT	RAGT	ElsW	KWS	BA	DSV	SyP	KWS	DSV	SyP	SyP	KWS	LimEur	R2n	KWS	DSV	
UK contact	KWS	RAGT	Lim	RAGT	KWS	KWS	KWS	KWS	Els	KWS	RAGT	Lim	KWS	Els	KWS	RAGT	Lim	Lim	Els	Lim	KWS	Lim	RAGT	RAGT	RAGT	Els	KWS	Sen	DSV	Syn	KWS	DSV	Syn	Syn	KWS	Lim	RAGT	Sen	DSV	
Annual treated yield (% control)																																							
2018 (10.7 t/ha)	98	97	95	96	101	-	-	100	-	-	-	100	-	100	100	-	100	99	98	-	-	102	-	-	102	100	100	99	-	103	-	-	103	101	102	-	100	100	98	-
2019 (11.6 t/ha)	96	95	98	94	100	-	100	99	98	100	-	100	100	100	101	99	101	99	99	-	-	103	103	104	102	99	99	99	104	105	104	-	103	102	101	102	101	99	99	-
2020 (10.3 t/ha)	97	96	94	97	100	[103]	[100]	98	[96]	[103]	[102]	102	[102]	100	99	[100]	101	99	98	[105]	[103]	103	[104]	[102]	104	102	100	101	[105]	103	[105]	[104]	103	102	103	[101]	101	100	[97]	-
2021 (10.9 t/ha)	100	97	96	95	102	101	99	97	96	100	100	99	99	98	98	99	98	98	97	107	102	102	102	103	102	101	97	98	106	106	105	103	105	104	100	101	96	100	98	-
2022 (11.5 t/ha)	101	97	94	96	103	102	101	100	97	101	101	98	100	102	98	98	99	97	98	107	103	103	103	102	100	100	99	98	106	105	104	103	103	104	103	99	101	98	100	-
Rotational position																																								
First cereal (11.2 t/ha)	98	96	96	96	101	101	100	99	97	101	101	100	100	100	100	99	100	99	98	107	103	103	103	102	102	100	99	99	106	104	104	103	103	102	102	100	100	99	99	2.3
Second and more (9.7 t/ha)	99	97	94	94	102	[102]	100	98	99	101	[101]	102	101	100	100	99	100	98	98	[109]	[104]	104	103	103	102	101	[101]	99	107	105	105	[104]	103	102	103	103	99	99	[100]	3.5
Sowing date (most trials were sown in October)																																								
Early sown (before 25 Sept) (11.3 t/ha)	[101]	96	[95]	[97]	[99]	-	[[98]]	100	[100]	[102]	-	103	100	100	100	[[100]]	103	100	99	[106]	[106]	103	[[104]]	[[105]]	103	100	101	100	106	[[107]]	107	[103]	103	101	[[102]]	103	100	99	98	4.8
Late sown (after 1 Nov) (9.2 t/ha)	98	97	95	95	102	[[101]]	[99]	98	[95]	[102]	[[103]]	102	[102]	102	101	[104]	98	99	97	[[108]]	[[105]]	103	[105]	[101]	103	101	100	97	[107]	103	[104]	[[105]]	103	100	105	[101]	99	102	99	4.3
Soil type (about 50% of trials are on medium soils)																																								
Light soils (10.8 t/ha)	97	96	94	94	102	[[101]]	99	99	97	101	[102]	102	99	101	100	100	101	99	98	[105]	[[102]]	103	105	104	103	101	99	101	106	106	105	[102]	103	102	103	102	98	99	[97]	3.3
Heavy soils (11.1 t/ha)	99	97	96	95	101	100	99	99	96	102	101	101	99	101	100	99	100	100	98	107	104	103	104	102	102	100	99	98	107	104	104	104	103	102	101	100	100	99	99	3.1
Agronomic features																																								
Lodging % without PGR	1	1	2	3	4	[4]	3	9	9	3	[2]	4	2	9	1	2	3	2	7	[19]	[5]	7	11	25	6	3	5	1	11	8	4	[6]	4	5	2	3	4	2	6	-
Lodging % with PGR	1	3	3	1	3	4	3	9	8	5	1	3	7	9	1	2	4	0	4	33	3	13	14	9	4	2	10	0	13	5	5	8	5	3	2	5	5	2	2	-
Latest safe-sowing date ¤	End Jan	End Feb	End Jan	End Jan	End Jan	[[End Jan]]	[End Jan]	End Jan	[Mid Feb]	[End Jan]	[[End Jan]]	End Jan	[End Feb]	Mid Feb	End Feb	[End Jan]	Mid Feb	End Jan	Mid Feb	[[Mid Feb]]	[[End Jan]]	End Jan	[End Feb]	[End Jan]	End Jan	Mid Feb	End Jan	End Feb	[Mid Feb]	End Jan	[End Jan]	[[Mid Feb]]	Mid Feb	End Jan	Mid Feb	[End Jan]	End Jan	End Jan	End Jan	
Speed of development to growth stage 31 (days +/- average)																																								
Early sown (Sept)	-4	-2	-2	0	-4	-	[-2]	-3	[-4]	[+2]	-	[-2]	[+2]	[0]	-3	[+2]	[-3]	[-8]	-2	-	-	-4	[+3]	[+2]	+7	0	+3	[+4]	[-2]	+2	[0]	-	+6	0	[-4]	[+5]	[-3]	-3	-1	7.8
Med sown (Oct)	-4	-4	-1	+2	-6	-	-	-5	-	-	-	[0]	-	[-5]	-2	-	[-2]	[0]	+3	-	-	0	-	-	[-1]	+1	+5	[+3]	-	[-1]	-	-	+4	+2	[-3]	-	[0]	0	[-2]	8.8
Late sown (Nov)	-2	-3	-2	-1	-4	-	-	-2	-	[+1]	-	[+1]	-	[-1]	-1	-	[-2]	[+1]	+2	-	-	-3	-	-	0	-1	+1	[+3]	[-5]	+2	[+3]	-	+2	-2	[-4]	-	[0]	-1	-1	4.8
Status in RL system																																								
Year first listed	17	14	12	16	19	23	22	16	22	22	23	21	22	21	19	22	21	21	18	23	23	19	22	22	20	18	18	21	22	20	22	23	18	16	21	22	21	15	20	
RL status	-	-	-	-	-	P1	P2	*	P2	P2	P1	-	P2	-	*	P2	-	-	*	P1	P1	-	P2	P2	-	*	*	-	P2	-	P2	P1	-	-	-	P2	-	-	*	

All yields in this table are taken from treated trials receiving a full fungicide and PGR programme.

UKFM = UK Flour Millers
UK = Recommended for the UK
E = Recommended for the East region
W = Recommended for the West region
N = Recommended for the North region

Sp = Specific recommendation. RGT Wolverine has a specific recommendation for resistance to *Barley yellow dwarf virus* (BYDV). Resistance to BYDV has not been verified in RL tests

C = Yield control. For this table, KWS Barrel was also a control variety but is no longer listed
* = Variety no longer under test in RL trials
PGR = Plant growth regulator
¤ = Latest safe-sowing date is the advised latest sowing time to give a sufficient cold period for flowering

[ ] = Limited data
[[ ]] = Very limited data
P1 = First year of recommendation
P2 = Second year of recommendation

LSD = Least significant difference
Average LSD (5%): Varieties that are more than one LSD apart are significantly different at the 95% confidence level

BA = Blackman Agriculture
DSV = DSV UK Ltd (**dsv-uk.co.uk**)

Els = Elsoms Seeds Ltd (**elsoms.com**)
ElsW = Elsoms Wheat Ltd (**elsoms.com**)

KWS = KWS UK (**kws-uk.com**)
Lim = Limagrain UK (**lgseeds.co.uk**)
LimEur = Limagrain Europe SA (**lgseeds.co.uk**)

Mom = Momont, France (**kws-uk.com**)
R2n = RAGT, France (**ragt.co.uk**)
RAGT = RAGT Seeds (**ragt.co.uk**)

Sen = Senova (**senova.uk.com**)
SyP = Syngenta Participations AG (**syngenta.co.uk**)
Syn = Syngenta UK Ltd (**syngenta.co.uk**)

Young plant resistance to yellow rust

Winter wheat features two broad types of resistance to yellow rust. Adult-plant resistance provides protection from around stem extension onwards, although timing is variety specific. The RL yellow rust disease ratings (1–9 scale) are based on this type of resistance.Young plant resistance is effective at all growth stages. Some varieties are susceptible at the young plant stage but develop some level of adult plant resistance. Each year, the United Kingdom Cereal Pathogen Virulence Survey (UKCPVS) selects five yellow rust strains (isolates) that best represent the diversity in the population. These are used to test whether recommended and candidate varieties in RL trials are resistant (r) or susceptible (s) to yellow rust at the young plant stage. RL field trial data (before ear emergence) is used to validate UKCPVS results. If RL field trial data from before ear emergence shows susceptibility of a variety labelled as resistant, the variety may be reclassified as susceptible.

Septoria tritici

The 2023/24 RL features ten varieties with Cougar in their background. Evidence from harvest 2022 results indicate that septoria tritici isolates virulent on Cougar derived varieties remain widespread. However, analysis has shown that the effect of these isolates on variety ratings is adequately captured by ratings based on the normal three-year dataset. As a result this is the only rating shown in the 2023/24 RL. For more information, visit **ahdb.org.uk/rl**

Eyespot

Eyespot ratings are normally calculated using data arising from a small number of naturally infected and artificially inoculated trials. Over the last two years, data from the inoculated trials has not been consistent with that from the naturally infected trials. As a result, the ratings in the RL 2023/24 have been calculated using only the data form naturally infected trials. This means the ratings are based on a small dataset and should be treated with caution.