

Winter wheat varieties grown in RL trials in 2021 but not added to the AHDB Recommended List

	Control varieties					Other varieties									
	Skyfall	KWS Siskin	KWS Barrel	LG Skyscraper	Gleam	RGT Flintoff	RGT Galactus	LG Farrier	Benquo	RGT Lantern	Astound	KWS Heron	RGT Silversurfer	Average LSD (5%)	
Fungicide-treated grain yield (% treated control)															
United Kingdom (10.8 t/ha)	97	98	99	103	103	99	99	102	102	101	101	101	99	2.3	
East region (10.7 t/ha)	97	98	99	103	103	99	99	103	102	101	100	101	100	2.6	
West region (11.0 t/ha)	96	99	99	103	103	100	98	101	103	103	102	101	98	2.9	
North region (11.1 t/ha)	96	98	102	102	103	[98]	98	[105]	[100]	100	100	[100]	[98]	3.4	
Untreated grain yield (% treated control)															
United Kingdom (10.8 t/ha)	70	83	73	82	80	67	80	86	82	78	88	85	84	6.0	
Grain quality															
Endosperm texture	Hard	Hard	Soft	Soft	Hard	Hard	Soft	Hard	Hard	Hard	Hard	Hard	Hard		
Protein content (%)	12.2	11.9	11.2	11.3	11.2	11.7	11.4	11.0	11.6	11.1	11.6	11.0	11.3	0.2	
Protein content (%) - Milling spec	13.2	12.7	12.0	12.2	12.0	[12.8]	12.0	[11.6]	12.6	11.9	12.4	[11.6]	12.0	0.5	
Hagberg Falling Number	273	282	240	214	220	260	205	277	225	268	240	222	252	25.6	
Specific weight (kg/hl)	78.3	76.7	76.9	76.5	76.3	77.6	74.7	78.7	76.0	75.6	75.4	74.9	75.8	0.6	
Chopin Alveograph W	[251]	163	102	-	-	[268]	[88]	-	-	-	-	-	-	25.1	
Chopin Alveograph P/L	[0.9]	0.5	0.3	-	-	[0.9]	[0.3]	-	-	-	-	-	-	0.2	
Agronomic features															
Resistance to lodging without PGR (1-9) - see note below	8	6	8	6	7	7	6	5	[7]	7	8	7	[6]	1.1	
Resistance to lodging with PGR (1-9) - see note below	8	7	8	6	7	8	6	6	7	8	8	8	7	1.0	
Height without PGR (cm)	84	84	84	92	87	87	89	87	87	84	88	88	89	1.7	
Ripening (days +/- Skyfall, -ve = earlier)	0	0	+1	0	0	0	+2	+1	+1	+2	0	+3	+1	0.7	
Resistance to sprouting (1-9)	5	5	6	[5]	5	-	[5]	-	[5]	[6]	[5]	-	[6]	1.3	
Disease resistance															
Mildew (1-9)	6	8	6	7	6	6	6	7	6	6	7	7	5	1.3	
Yellow rust (1-9)	3	9	6	7	5	4	6	9	6	6	8	8	8	0.6	
Brown rust (1-9)	8	5	5	5	6	8	8	8	5	6	6	6	6	1.0	
Septoria tritici (1-9)	5.3	6.5	4.3	4.9	5.8	5.3	6.2	5.3	5.7	5.3	6.4	6.7	6.9	1.3	
Septoria tritici (1-9) - one-year rating - see note below	5.1	6.5	4.4	4.6	5.5	5.0	5.7	5.3	5.6	5.3	6.4	5.9	6.4	1.2	
Eyespot (1-9)	7@	4	4	4	4	[5]@	4	[6]	[3]	5	6	[5]	[4]	2.9	
Fusarium ear blight (1-9)	7	6	6	6	6	6	6	6	6	6	6	6	6	0.4	
Orange wheat blossom midge	R	-	R	R	R	R	R	-	R	R	-	-	R		
Breeder/UK contact															
Breeder	RAGT	KWS	KWS	LimEur	SyP	RAGT	R2n	Lim	BA	RAGT	ElsW	KWS	R2n		
UK contact	RAGT	KWS	KWS	Lim	Syn	RAGT	RAGT	Lim	Sen	RAGT	Els	KWS	RAGT		

This table should be read in conjunction with the AHDB Recommended List of winter wheat varieties for 2022/23. 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.

PGR = Plant growth regulator

[] = Limited data

@ = Believed to carry the *Pch1* Rendezvous resistance gene to eyespot, but this has not been verified in Recommended List tests

R = Believed to be resistant to orange wheat blossom midge (OWBM), but this has not been verified in Recommended List tests

BA = Blackman Agriculture

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)

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)

LSD = Least significant difference

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

Lodging ratings for RL 2022/23

The scales used to calculate the lodging ratings for the RL 2022/23 have been adjusted to include susceptible and resistant fixed points. The aim is to make the ratings more representative of what is seen in the field and improve consistency of the ratings over years. This has contributed to a drop in ratings for some varieties, compared to the 2021/22 RL. However, this does not mean that these varieties have become more susceptible since last year. As for all ratings, statistical significance (LSD) should be taken into account when deciding if varieties have a different susceptibility to the trait.

Winter wheat septoria tritici disease resistance ratings

In 2021, disease ratings declined for many winter wheat varieties, with the largest reductions in varieties with Cougar in their parentages. For the RL 2022/23, the ratings are based on a standard three-year (2019-21) dataset, in addition to a one-year (2021) dataset. The latter ratings reveal the influence of the 2021 season and help highlight varieties that may benefit from closer monitoring. For more information, visit ahdb.org.uk/rl