

AHDB Recommended List

Winter wheat varieties grown in RL trials in 2019 but not added to the AHDB Recommended List



	Control varieties				Other varieties			
	Skyfall	KWS Siskin	KWS Santiago	KWS Barrel	Elation	RGT Lantern	KWS Parkin	Average LSD (5%)
Fungicide-treated grain yield (% treated control)								
United Kingdom (11.2 t/ha)	97	101	101	100	101	102	102	2.1
East region (11.1 t/ha)	97	101	101	100	101	102	102	2.3
West region (11.2 t/ha)	97	101	101	100	101	103	101	2.7
North region (11.3 t/ha)	96	98	101	104	101	[100]	[101]	3.1
Untreated grain yield (% treated control)								
United Kingdom (11.2 t/ha)	78	83	67	72	77	78	81	4.9
Grain quality								
Endosperm texture	Hard	Hard	Hard	Soft	Soft	Hard	Hard	
Protein content (%)	12.4	11.9	11.5	11.3	11.6	11.2	11.3	0.2
Protein content (%) - Milling spec	13.3	12.6	12.3	12.0	12.3	11.9	11.9	0.3
Hagberg Falling Number	278	286	185	224	206	271	259	26.8
Specific weight (kg/hl)	78.3	77.2	75.5	77.1	77.4	75.7	76.3	0.7
Chopin alveograph W	-	164	-	96	94	-	-	19.8
Chopin alveograph P/L	-	0.5	-	0.4	0.3	-	-	0.1
Agronomic features								
Resistance to lodging without PGR (1-9)	8	6	7	7	7	7	8	0.6
Resistance to lodging with PGR (1-9)	8	7	8	8	8	8	8	0.5
Height without PGR (cm)	83	84	86	83	82	83	79	1.7
Ripening (days +/- Skyfall, -ve = earlier)	0	0	+1	+1	+1	+2	-1	0.6
Resistance to sprouting (1-9)	5	5	6	6	[6]	[7]	[6]	0.8
Disease resistance								
Mildew (1-9)	6	8	5	7	7	5	6	1.0
Yellow rust (1-9) see note below	5	9	7	9	9	7	9	0.7
Brown rust (1-9) see note below	8	5	4	5	6	6	5	1.1
Septoria nodorum (1-9)	[6]	[6]	[5]	[6]	[6]	-	-	0.9
Septoria tritici (1-9)	5.8	6.6	4.4	4.3	4.3	5.7	5.5	0.8
Eyespot (1-9)	6@	5	4	5	4	-	-	1.7
Fusarium ear blight (1-9)	7	5	6	6	6	6	6	0.5
Orange wheat blossom midge	R	-	R	R	R	R	-	

This table should be read in conjunction with the AHDB Recommended List of winter wheat varieties for 2020/21.
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.

[] = 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.

LSD = Least significant difference

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

Yellow and brown rust ratings

During 2019 higher than expected levels of yellow and brown rust were seen in some varieties in some trials. Careful analysis of the 2019 data from RL trials did not reveal dramatic changes in average disease ratings. These are national average ratings and it is not yet clear if the reported cases of high yellow and brown rust disease levels in 2019 indicate the initial emergence of new rust races or exceptionally high disease pressure at some sites. Given the highly dynamic nature of the yellow and brown rust populations in the UK over recent years all varieties should be closely monitored for rusts, as local rust populations may differ from the general UK population and may be more or less virulent on a variety than the RL rating suggests.