

Spring wheat 2023



	KWS Harsum	KWS Ladum	Mulika	Nissaba	KWS Alicium	KWS Lightum	KWS Cochise	KWS Giraffe	KWS Chillum	KWS Fixum	WPB Escape	Hexham	KWS Talisker	Average LSD (5%)
End-use group	UKFM Group 1				UKFM Group 2					Hard Group 4				
Scope of recommendation	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	
Variety status	NEW		C		NEW	NEW	C	*	*			*C	*	
UK yield as % control (spring sowing)														
Fungicide-treated (6.8 t/ha)	102	102	95	94	105	102	102	102	99	107	104	104	103	3.6
Grain quality (spring sowing)														
Endosperm texture	Hard	Hard	Hard	Hard	Hard	Hard	Hard	Hard	Hard	Hard	Hard	Hard	Hard	
Protein content (%)	12.8	13.4	13.8	13.6	13.3	13.4	13.4	13.5	13.0	12.9	12.8	12.8	12.6	0.2
Hagberg Falling Number	330	337	332	314	346	325	250	319	359	231	271	291	295	20.1
Specific weight (kg/hl)	78.3	78.0	77.0	76.4	80.3	78.4	78.6	79.7	78.1	77.6	76.4	77.1	79.0	0.6
Agronomic features (spring sowing)														
Resistance to lodging with PGR [∞]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Straw length without PGR (cm)	78	75	79	77	85	79	78	75	74	79	73	78	80	2.0
Ripening (days +/- Mulika)	+1	0	0	+2	-1	0	+1	0	0	+1	+1	+2	+1	1.0
Disease resistance														
Mildew (1-9)	[7]	[7]	6	[5]	[8]	[8]	8	8	8	[8]	8	6	8	1.0
Yellow rust (1-9)	7	6	6	5	6	6	4	6	6	7	8	8	9	0.6
Brown rust (1-9)	5	7	9	[9]	6	7	8	7	6	7	6	9	5	1.4
Septoria tritici (1-9)	[7]	[7]	7	[6]	[7]	[6]	6	[6]	[7]	[6]	[6]	[7]	[6]	0.9
Orange wheat blossom midge	R	-	R	R	R	R	R	-	R	-	-	-	-	-
Annual treated yield (% control, spring sowing)														
2018 (5.5 t/ha)	-	-	[94]	-	-	-	[106]	[106]	[98]	-	[112]	[100]	[105]	6.1
2019 (7.0 t/ha)	-	103	93	92	-	-	105	100	96	108	104	103	103	4.1
2020 (6.4 t/ha)	[102]	[98]	[94]	[96]	[101]	[100]	[101]	[97]	[99]	[108]	[103]	[105]	[102]	4.4
2021 (7.6 t/ha)	105	103	96	96	106	106	100	102	103	106	[103]	105	105	4.1
2022 (7.3 t/ha)	99	102	98	93	106	100	98	104	97	105	102	105	103	3.7
Breeder/UK contact														
Breeder	KWS	KWS	BA	BA	KWSGmbH	KWS	KWS	KWS	KWS	KWS	WPB	KWS	KWS	
UK contact	KWS	KWS	Sen	BA	KWS	KWS	KWS	KWS	KWS	KWS	LSPB	Sen	KWS	
Status in RL system														
Year first listed	23	22	11	22	23	23	17	20	17	22	21	19	19	
RL status	P1	P2	-	P2	P1	P1	-	*	*	P2	-	*	*	

Varieties no longer listed: KWS Kilburn.
On the 1-9 scales, high figures indicate that a variety shows the character to a high degree (e.g. high resistance).

UKFM = UK Flour Millers
UK = Recommended for the UK
C = Yield control
* = Variety no longer under test in RL trials
PGR = Plant growth regulator
∞ = No ratings available

[] = Limited data
R = Believed to be resistant to orange wheat blossom midge (OWBM), but this has not been verified in RL tests
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
KWS = KWS UK (kws-uk.com)

KWSGmbH = KWS Lochow GmbH (kws-uk.com)
LSPB = LS Plant Breeding (lspb.eu)

Sen = Senova (senova.uk.com)
WPB = Wiersum Plant Breeding