

Spring barley 2024



MBC malting varieties

	Skyway	Firefox	Laureate	LG Diablo	RGT Planet	KWS Sassy	SY Signet	Diviner	SY Tennyson	Bounty	NOS Gambit	Belter	NOS Munro	LG Aquarius	Olsen	Hurifer	Fairing	CB Score	Average LSD (5%)	
End-use group	Approved						Provisional			Under test for malting						Feed	Described			
Scope of recommendation	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK Gr.Dis	UK Null-Lox	
Variety status	C	C	C	C	C					NEW	NEW	NEW	NEW	NEW	NEW					
Fungicide-treated grain yield (% treated control)																				
United Kingdom (7.8 t/ha)	102	101	101	99	97	95	102	102	102	105	103	103	103	103	102	104	91	98	2.3	
East region (7.9 t/ha)	103	101	101	99	97	93	103	101	102	107	104	104	102	105	103	104	90	98	3.1	
West region (7.4 t/ha)	103	102	102	98	96	96	100	101	101	[105]	[105]	[103]	[103]	[102]	[101]	104	93	98	3.6	
North region (8.2 t/ha)	101	102	100	100	97	96	103	103	102	105	101	103	103	101	102	104	90	99	2.7	
Untreated grain yield (% treated control)																				
United Kingdom (7.8 t/ha)	91	90	92	88	87	86	91	90	88	91	94	94	92	91	92	91	82	90	3.0	
Disease resistance																				
Mildew (1-9)	8	8	9	8	8	8	[8]	[9]	[8]	8	8	8	8	8	8	[8]	7	9	0.8	
Brown rust (1-9)	4	4	5	5	4	5	5	5	4	4	5	5	5	4	4	5	5	5	1.1	
Rhynchosporium (1-9)	7	6	7	6	6	6	5	4	5	[7]	[6]	[6]	[5]	[5]	[6]	6	9	7	1.5	
Agronomic features																				
Resistance to lodging without PGR (1-9)	7	7	6	7	7	6	[7]	[7]	[7]	[8]	[8]	[7]	[7]	[8]	[8]	[9]	8	7	1.1	
Straw length without PGR (cm)	77	72	72	73	75	80	73	68	72	71	70	70	73	72	72	68	72	72	1.8	
Ripening (days +/- RGT Planet)	0	0	+1	+3	0	+1	+2	+1	+2	+2	+1	+2	+2	+1	+2	+1	-2	+1	0.9	
Resistance to brackling (1-9)	8	8	8	8	8	6	8	8	7	8	9	9	8	8	8	9	8	8	0.7	
Main market options																				
MBC malting approval for brewing use	F	-	F	F	F	Nt	P	Nt	P	T	T	T	-	T	T	-	-	-	-	
MBC malting approval for malt distilling use	-	F	F	F	Nt	F	-	P	P	-	-	T	T	-	T	-	-	-	-	
Grain quality																				
Specific weight (kg/hl)	69.3	67.0	67.2	67.7	68.7	68.9	67.2	67.5	66.5	65.7	67.5	67.7	65.7	68.4	66.8	66.2	68.8	67.6	0.6	
Screenings (% through 2.25 mm)	0.9	1.4	1.3	1.4	1.2	1.0	1.5	1.7	1.4	1.4	0.9	1.0	2.1	1.2	1.6	1.5	1.0	1.4	0.3	
Screenings (% through 2.5 mm)	2.3	3.6	3.2	3.5	3.3	2.4	3.5	4.5	3.2	4.3	2.0	2.5	6.5	3.6	4.2	4.3	2.7	3.6	1.0	
Nitrogen content (%)	1.52	1.49	1.49	1.50	1.52	-	1.46	1.48	1.44	1.48	1.50	1.53	1.46	1.47	1.47	[1.48]	-	[1.52]	0.05	
Malting quality																				
Hot water extract (l deg/kg)	313.3	313.3	313.4	313.4	312.7	-	314.2	314.1	315.5	313.8	313.7	313.5	312.7	313.9	315.2	311.6	-	311.2	2.1	
Predicted spirit yield (laa/t)	-	433.4	433.5	435.0	[434.0]	-	[431.5]	435.8	436.8	434.9	-	436.0	435.6	436.7	435.3	[431.5]	-	-	5.7	
Annual treated yield (% control)																				
2019 (8.0 t/ha)	103	101	100	99	98	95	-	-	-	-	-	-	-	-	-	-	91	98	-	
2020 (7.7 t/ha)	103	100	100	100	97	95	102	102	103	-	-	-	-	-	-	104	90	98	-	
2021 (8.0 t/ha)	101	103	101	99	95	94	103	102	103	106	103	103	103	102	102	105	91	99	-	
2022 (7.9 t/ha)	102	101	101	99	97	96	102	102	102	106	104	103	103	104	103	104	92	99	-	
2023 (7.5 t/ha)	102	102	102	99	96	94	103	101	99	104	104	103	102	102	102	103	90	97	-	
Breeder/UK contact																				
Breeder	NS	Ack	SyP	LimEur	RAGT	KWS	SyP	Sec	SyP	NS	NS	Sec	NS	Lim	Sej	Sec	SyP	Cal		
UK contact	Agr	ElsAck	Syn	Lim	RAGT	KWS	Syn	Agr	Syn	AgV	Sen	Agr	Sen	Lim	Lim	Agr	Syn	ADM		
Status in RL system																				
Year first listed	21	20	16	18	15	16	23	23	23	24	24	24	24	24	24	23	16	22		
RL status	-	-	-	-	-	-	P2	P2	P2	P1	P1	P1	P1	P1	P1	P2	-	-		

Varieties no longer listed: Cadiz, Florence, KWS Curtis, Malvern, Prospect and Sun King.
 Null-Lox and grain-distilling (Gr.Dis) spring barley varieties are described. Data is provided for information only and does not constitute a recommendation.
 Null-Lox varieties lack a gene for lipogenase production.
 Growers are strongly advised to check with their buyer before committing to a malting variety without full MBC approval.
 Seed supplied for RL trials for SY Tennyson in 2023 was heavily infected with net blotch. This may have negatively impacted yields.

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

UK = Recommended for the UK
 C = Yield control
 MBC = Malting Barley Committee
 [] = Limited data
 PGR = Plant growth regulator

F = Full MBC approval in this segment
 P = Provisional MBC approval in this segment
 T = Under test for MBC approval in this segment
 Nt = Not approved by MBC in this segment
 P1 = First year of listing
 P2 = Second year of listing

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

Ack = Ackermann Saatzzucht GmbH (sz-ackermann.de)
 ADM = ADM Agriculture Ltd (adm-agri.co.uk)
 Agr = Agrii (agrii.co.uk)
 AgV = Agrovista UK Ltd (agrovista.co.uk)

Cal = Carlsberg Research Laboratory
 ElsAck = Elsoms Ackermann Barley (elsoms.com)
 KWS = KWS UK (kws-uk.com)
 Lim = Limagrain UK (lgseeds.co.uk)

LimEur = Limagrain Europe SA (lgseeds.co.uk)
 NS = Nordic Seed, Denmark
 RAGT = RAGT Seeds (ragt.co.uk)
 Sec = Secobra, France (secobra.com)

Sej = Sejet, Denmark (sejet.com)
 Sen = Senova (senova.uk.com)
 Syn = Syngenta UK Ltd (syngenta.co.uk)
 SyP = Syngenta Participations AG (syngenta.co.uk)