

AHDB Recommended List - Table 7

Winter barley 2019/20

Market options, yield and grain quality



End-use group	Two-row malting			Two-row feed											Six-row feed						Average LSD (5%)				
Scope of recommendation	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	N	UK	UK	W	UK	UK	UK	UK	N	UK	UK	UK	UK		
	C			NEW	NEW	NEW		NEW	*				C			NEW	NEW	C				C			
Fungicide-treated grain yield (% treated control)																									
United Kingdom (9.9 t/ha)	97	97	94	104	104	104	103	102	101	101	101	101	100	99	98	109	109	108	107	107	107	106	105	104	2.6
East region (9.9 t/ha)	98	97	94	106	105	104	102	103	102	101	100	99	99	99	98	108	108	109	108	105	106	104	105	104	3.1
West region (9.9 t/ha)	97	96	94	[102]	[101]	[104]	103	[101]	102	101	102	101	100	101	98	110	[111]	[109]	108	107	108	110	106	105	4.0
North region (9.8 t/ha)	95	97	94	100	105	[101]	102	[101]	98	102	103	102	101	97	98	108	106	106	106	109	105	103	104	103	3.7
Untreated grain yield (% treated control)																									
United Kingdom (9.9 t/ha)	80	77	69	84	83	82	81	87	86	79	74	75	77	80	81	78	91	89	89	88	90	90	90	85	3.4
Main market options																									
MBC malting approval for brewing use	P	F	F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Grain quality																									
Specific weight (kg/hl)	69.5	69.3	70.0	68.1	68.9	69.8	67.8	70.2	69.3	68.0	67.9	67.4	69.0	68.2	71.0	68.5	68.7	69.9	68.8	67.8	68.2	65.8	69.0	70.8	0.9
Screenings (% through 2.25 mm)	2.4	2.1	3.7	2.5	2.8	1.8	2.1	1.0	2.1	2.7	2.4	2.3	3.0	2.1	1.8	2.9	2.3	1.9	2.7	2.6	2.9	2.5	4.7	2.4	1.0
Screenings (% through 2.5 mm)	6.6	6.8	12.2	7.7	9.2	5.5	6.0	2.5	6.4	8.2	8.6	7.5	10.1	6.6	5.7	10.3	8.0	6.9	9.6	10.3	10.7	8.3	17.3	8.8	2.9
Nitrogen content (%)	1.66	1.63	1.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	[1.55]	-	0.06
Status in RL system																									
Year first listed	18	16	12	19	19	19	16	19	16	15	17	14	13	13	10	18	19	19	16	17	16	18	17	18	-

Not added to Recommended List	
Sobell	Mackie
Two-row feed	
Not added to RL	
-	-
103	102
103	100
[103]	[102]
103	104
88	78
-	-
66.8	68.0
2.6	2.2
9.3	7.3
-	-

Varieties no longer listed: Coref and Talisman.
 Comparisons of variety performance across regions are not valid.
 All yields on this table are taken from treated trials receiving a full fungicide and PGR programme.

UK = Recommended for the UK
 W = Recommended for the West region
 N = Recommended for the North region

C = Yield control (for current table). For this table Talisman was also a yield control but is no longer listed.
 * = Variety no longer in trials
 \$ = Hybrid variety
 [] = Limited data

F = Full MBC approval
 P = Provisional MBC approval

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

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Yield, agronomy and disease resistance



End-use group	Two-row malting			Two-row feed											Six-row feed						Average LSD (5%)	Not added to Recommended List					
	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	N	UK	UK	W	UK	UK	UK	N	UK	UK		UK	UK	UK	Sobell	Mackie	
Scope of recommendation	UK	UK	UK	NEW	NEW	NEW	NEW	*																			
Fungicide-treated grain yield (% treated control)																											
United Kingdom (9.9 t/ha)	97	97	94	104	104	104	103	102	101	101	101	101	100	99	98	109	109	108	107	107	107	106	105	104	2.6	103	102
East region (9.9 t/ha)	98	97	94	106	105	104	102	103	102	101	100	99	99	99	98	108	108	109	108	105	106	104	105	104	3.1	103	100
West region (9.9 t/ha)	97	96	94	[102]	[101]	[104]	103	[101]	102	101	102	101	100	101	98	110	[111]	[109]	108	107	108	110	106	105	4.0	[103]	[102]
North region (9.8 t/ha)	95	97	94	100	105	[101]	102	[101]	98	102	103	102	101	97	98	108	106	106	106	109	105	103	104	103	3.7	103	104
Untreated grain yield (% treated control)																											
United Kingdom (9.9 t/ha)	80	77	69	84	83	82	81	87	86	79	74	75	77	80	81	78	91	89	89	88	90	90	90	85	3.4	88	78
Agronomic features																											
Resistance to lodging (1-9)	7	8	7	7	7	7	8	8	7	7	7	8	6	8	8	7	7	8	7	7	8	8	8	7	-	6	7
Straw height without PGR (cm)	93	90	87	99	85	95	87	90	88	91	88	92	85	93	91	110	119	112	115	110	109	105	95	108	3.4	88	91
Straw height with PGR (cm)	90	88	84	95	87	91	85	87	85	88	87	88	82	90	89	107	110	103	109	105	102	100	93	105	2.4	86	87
Ripening (+/-KWS Orwell, -ve = earlier)	-1	0	0	+1	-1	+1	0	-1	0	0	0	0	0	0	+1	0	0	0	0	0	0	0	-1	-1	0.7	0	0
Winter hardiness #	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Disease resistance																											
Mildew (1-9)	6	6	6	6	5	4	3	6	6	4	4	5	4	6	4	6	8	6	4	5	5	7	5	4	1.5	6	5
Yellow rust (1-9)	[8]	[8]	8	-	-	-	[7]	-	[7]	[7]	[8]	[8]	[9]	[8]	6	[8]	-	-	[9]	[7]	[8]	[8]	[9]	[8]	3.4	-	-
Brown rust (1-9)	6	6	6	6	7	7	7	9	7	6	6	6	7	5	7	4	6	6	6	6	7	7	8	6	1.2	8	5
Rhynchosporium (1-9)	6	6	5	6	5	6	6	6	7	6	6	6	4	6	5	6	7	7	7	7	7	7	7	7	1.2	7	5
Net blotch (1-9)	5	6	5	5	5	6	5	6	7	6	4	4	6	6	5	6	5	6	6	6	6	6	5	6	3.2	6	4
BaYMV	R	R	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 variety performance across regions are not valid.

UK = Recommended for the UK
W = Recommended for the West region
N = Recommended for the North region

C = Yield control (for current table). For this table Talisman was also a yield control but is no longer listed.
* = Variety no longer in trials
\$ = Hybrid variety
[] = Limited data

= The winter hardiness scores are taken from extreme tests in the Jura mountains of France but currently insufficient data for 1-9 ratings.

R = Resistant to barley mild mosaic virus (BaMMV) and to barley yellow mosaic virus (BaYMV) strain 1.

LSD = Least significant difference

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

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Supplementary data



End-use group	Two-row malting			Two-row feed											Six-row feed						Average LSD (5%)			
	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	N	UK	UK	W	UK	UK	UK	UK	UK	UK				
Scope of recommendation				NEW	NEW	NEW		NEW		*					C		NEW	NEW	C					
Breeder/UK contact																								
Breeder	SyP	SyP	SyP	KWS	LimEur	LimEur	KWS	Bre	SyP	KWS	KWS	KWS	KWS	Lim	KWS	SyP	SyP	SyP	SyP	SyP	SyP	KWS	KWSMR	SyP
UK contact	Syn	Syn	Syn	KWS	Lim	Lim	KWS	Sen	Syn	KWS	KWS	KWS	KWS	Lim	KWS	Syn	Syn	Syn	Syn	Syn	Syn	KWS	KWS	Syn
Annual treated yield (% control)																								
2014 (9.9 t/ha)	-	97	94	-	-	-	102	-	101	101	102	100	100	98	97	-	-	-	107	108	106	-	104	-
2015 (10.5 t/ha)	96	96	93	-	-	-	101	-	99	100	101	101	100	96	96	107	-	-	107	106	105	104	105	103
2016 (9.3 t/ha)	98	96	93	103	105	104	104	102	102	102	101	101	100	100	99	111	110	109	108	108	108	107	106	104
2017 (9.7 t/ha)	96	97	93	105	104	103	103	103	101	102	101	100	99	102	99	109	109	109	108	107	108	107	107	106
2018 (10.0 t/ha)	97	98	96	102	104	103	103	102	101	102	102	103	101	99	98	109	108	108	105	107	105	105	104	103
Soil type (about 50% of trials are medium soils)																								
Light soils (10.0 t/ha)	96	97	95	102	105	102	102	102	100	102	102	101	100	97	97	107	106	106	106	107	105	104	105	103
Heavy soils (10.0 t/ha)	98	95	94	[105]	[107]	[106]	102	[101]	102	100	99	100	100	101	98	109	[107]	[108]	109	105	109	105	105	105
Agronomic characteristics																								
Lodging without PGR (%)	6	3	4	9	11	5	2	3	5	5	7	3	10	3	3	9	4	4	5	8	3	2	1	5
Lodging with PGR (%)	3	1	2	3	4	2	1	1	3	2	3	2	7	1	2	7	3	1	2	5	1	2	1	2
Malting quality																								
Hot water extract (l deg/kg)	305.7	307.8	305.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	[294.7]	-
Status in RL system																								
Year first listed	18	16	12	19	19	19	16	19	16	15	17	14	13	13	10	18	19	19	16	17	16	18	17	18
RL status	P2	-	-	P1	P1	P1	-	P1	-	*	-	-	-	-	-	P2	P1	P1	-	-	-	P2	-	P2

Not added to Recommended List	
Sobell	Mackie
Two-row feed	
Not added to RL	
-	-
Sej	Ack
Sen	SU
-	-
-	-
103	103
104	102
103	103
-	-
103	104
[100]	[99]
-	-
-	-
-	-
-	-

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

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* = Variety no longer in trials

\$ = Hybrid variety
[] = Limited data
P1 = First year of recommendation
P2 = Second year of recommendation

Ack = Ackermann Saatzzucht GmbH
Bre = Saatzzucht Josef Breun, Germany
KWS = KWS UK (www.kws-uk.com)
KWSMR = KWS Momont Recherche (www.kws-uk.com)
Lim = Limagrain UK (www.lgseeds.co.uk)
LimEur = Limagrain Europe SA (www.lgseeds.co.uk)

Sej = Sejet, Denmark (www.sejet.com)
Sen = Senova (www.senova.uk.com)
SU = Saaten Union UK (www.saaten-union.co.uk)
Syn = Syngenta UK Ltd (www.syngenta.co.uk)
SyP = Syngenta Participations AG (www.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.