

AHDB Recommended List - Table 7

Winter barley 2018/19

Market options, yield and grain quality



	Electrum	Coref	Craft	Talisman	SY Venture	KWS Orwell	Surge	KWS Infinity	KWS Creswell	KWS Glacier	KWS Tower	California	KWS Cassia	Belmont \$	Bazooka \$	Sunningdale \$	KWS Astaire	Belfry \$	Funky	Libra \$
End-use group	Two-row malting					Two-row feed								Six-row feed						
Scope of recommendation	UK	UK	UK	UK	UK	UK	UK	UK	N	UK	UK	W	UK	UK	UK	UK	UK	UK	UK	UK
	NEW	NEW		*C	C									NEW			NEW			NEW
Fungicide-treated grain yield (% treated controls)																				
United Kingdom (9.6 t/ha)	98	98	98	95	95	104	103	102	102	101	101	100	99	111	109	108	108	108	107	106
East region (9.6 t/ha)	99	99	98	96	95	104	104	102	101	101	100	100	99	111	109	108	107	108	108	107
West region (9.6 t/ha)	100	99	97	93	94	104	103	102	102	101	102	101	99	111	110	108	112	109	108	107
North region (9.4 t/ha)	94	94	98	95	94	103	99	103	104	101	102	98	99	109	107	110	104	106	106	103
Untreated grain yield (% treated control)																				
United Kingdom (9.6 t/ha)	83	76	79	77	72	83	89	81	76	80	78	82	83	82	91	90	93	92	92	87
Main market options																				
MBC malting approval for brewing use	-	-	P	F	F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Grain quality																				
Specific weight (kg/hl)	69.2	67.4	69.0	67.2	69.8	67.7	68.9	67.9	67.5	69.1	67.3	68.4	70.9	68.0	68.5	67.5	65.5	67.5	68.8	70.6
Screenings (% through 2.25 mm)	1.5	3.0	1.5	3.6	3.3	2.1	2.0	3.0	2.3	2.4	-	[2.9]	2.1	2.1	2.5	2.8	[0.7]	3.3	5.9	1.5
Screenings (% through 2.5 mm)	2.4	7.7	4.7	11.0	10.4	6.5	5.8	8.9	8.2	7.8	-	[10.2]	6.7	6.7	8.3	10.5	[2.2]	10.7	19.7	4.2
Nitrogen content (%)	1.64	1.59	1.61	1.63	1.60	-	-	-	-	-	-	-	-	-	-	-	-	-	[1.55]	-
Status in RL system																				
Year first listed	18	18	16	13	12	16	16	15	17	13	14	13	10	18	16	17	18	16	17	18

Varieties no longer listed: Flagon and Volume

\$ = hybrid variety

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

F = full MBC approval
 P = provisional MBC approval
 C = yield control (for current table)

* = variety no longer in trials
 [] = limited data

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



	Electrum	Coref	Craft	Talisman	SY Venture	KWS Orwell	Surge	KWS Infinity	KWS Creswell	KWS Glacier	KWS Tower	California	KWS Cassia	Belmont \$	Bazooka \$	Sunningdale \$	KWS Astaire	Belfry \$	Funky	Libra \$
End-use group	Two-row malting					Two-row feed							Six-row feed							
Scope of recommendation	UK	UK	UK	UK	UK	UK	UK	UK	N	UK	UK	W	UK	UK	UK	UK	UK	UK	UK	UK
	NEW	NEW		*C	C					C				NEW			NEW			NEW
Fungicide-treated grain yield (% treated controls)																				
United Kingdom (9.6 t/ha)	98	98	98	95	95	104	103	102	102	101	101	100	99	111	109	108	108	108	107	106
East region (9.6 t/ha)	99	99	98	96	95	104	104	102	101	101	100	100	99	111	109	108	107	108	108	107
West region (9.6 t/ha)	100	99	97	93	94	104	103	102	102	101	102	101	99	111	110	108	112	109	108	107
North region (9.4 t/ha)	94	94	98	95	94	103	99	103	104	101	102	98	99	109	107	110	104	106	106	103
Untreated grain yield (% treated control)																				
United Kingdom (9.6 t/ha)	83	76	79	77	72	83	89	81	76	80	78	82	83	82	91	90	93	92	92	87
Agronomic features																				
Resistance to lodging (1-9)	7	7	8	6	7	8	7	7	7	6	7	8	7	7	7	7	8	8	8	7
Straw height without PGR (cm)	93	95	92	97	86	87	89	90	88	85	91	92	90	109	114	109	105	107	95	107
Straw height with PGR (cm)	90	94	89	96	84	86	86	89	87	82	89	91	90	108	110	105	102	102	93	105
Ripening (+/-SY Venture, -ve = earlier)	-2	-1	0	-1	0	0	-1	0	-1	-1	-1	-1	0	0	-1	-1	0	-1	-1	-1
Winter hardiness #	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Disease resistance																				
Mildew (1-9)	6	5	6	6	6	3	5	4	4	4	5	6	4	6	4	6	7	5	5	4
Yellow rust (1-9)	[8]	[4]	[8]	[9]	[7]	[7]	[7]	[7]	[8]	[9]	[8]	[7]	[6]	[8]	[9]	[6]	[9]	[8]	[9]	[9]
Brown rust (1-9)	6	6	6	7	6	7	8	7	6	7	6	5	7	4	6	6	7	7	8	5
Rhynchosporium (1-9)	6	7	6	6	4	6	7	6	6	4	5	6	4	7	7	7	7	7	7	7
Net blotch (1-9)	5	6	6	5	5	5	7	6	4	6	3	6	5	6	6	6	6	6	5	6
Ramularia (1-9)	5	5	5	4	5	5	5	6	5	5	4	6	-	5	5	5	5	5	5	5
BaYMV	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 (eg high resistance). Comparisons of variety performance across regions are not valid.

\$ = hybrid variety
 # = 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

UK = recommended for the UK
 W = recommended for the West region
 N = recommended for the North region
 LSD = least significant difference
 * = variety no longer in trials
 C = yield control (for current table)
 [] = limited data

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



	Electrum	Coref	Craft	Talisman	SY Venture	KWS Orwell	Surge	KWS Infinity	KWS Creswell	KWS Glacier	KWS Tower	California	KWS Cassia	Belmont \$	Bazooka \$	Sunningdale \$	KWS Astaire	Belfry \$	Funky	Libra \$
End-use group	Two-row malting					Two-row feed								Six-row feed						
Scope of recommendation	UK	UK	UK	UK	UK	UK	UK	UK	N	UK	UK	W	UK	UK	UK	UK	UK	UK	UK	UK
	NEW	NEW		*C	C					C				NEW			NEW			NEW
Breeder/UK contact																				
Breeder	SyP	SyP	SyP	Sen	SyP	KWS	SyP	KWS	KWS	KWS	KWS	Lim	KWS	SyP	SyP	SyP	KWS	SyP	-	SyP
UK contact	Syn	Syn	Syn	Sen	Syn	KWS	Syn	KWS	KWS	KWS	KWS	Lim	KWS	Syn	Syn	Syn	KWS	Syn	KWS	Syn
Annual treated yield (% control)																				
2013 treated yield (8.9 t/ha)	-	-	98	96	96	104	103	103	-	103	102	99	100	-	108	-	-	107	-	-
2014 treated yield (9.8 t/ha)	-	-	98	95	95	102	102	101	102	101	100	99	97	-	108	109	-	107	105	-
2015 treated yield (10.4 t/ha)	97	97	96	95	94	102	100	101	102	101	101	97	97	108	108	107	106	106	106	104
2016 treated yield (9.2 t/ha)	99	98	97	93	94	105	103	102	102	101	102	101	100	112	109	109	109	109	107	106
2017 treated yield (9.5 t/ha)	98	97	98	94	94	105	103	104	102	100	101	103	101	111	111	109	109	110	110	108
Soil type (about 50% of trials are medium soils)																				
Light soils (9.5 t/ha)	96	95	98	96	95	103	101	102	102	101	102	97	98	108	107	109	106	105	107	104
Heavy soils (9.8 t/ha)	99	100	96	94	95	104	104	101	100	101	101	102	99	110	111	106	107	110	107	107
Agronomic characteristics																				
Lodging without PGR (%)	6	5	3	11	4	2	5	4	6	10	3	2	3	7	4	6	1	3	2	4
Lodging with PGR (%)	3	4	1	8	2	1	3	2	3	7	1	2	2	5	1	3	0	1	1	1
Malting quality																				
Hot water extract (l deg/kg)	305.1	306.0	308.8	308.0	306.3	-	-	-	-	-	-	-	-	-	-	-	-	-	[294.7]	-
Status in RL system																				
Year first listed	18	18	16	13	12	16	16	15	17	13	14	13	10	18	16	17	18	16	17	18
RL status	P1	P1	-	*	-	-	-	-	P2	-	-	-	-	P1	-	P2	P1	-	P2	P1

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

[] = limited data

LSD = least significant difference

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

UK = recommended for the UK
W = recommended for the West region
N = recommended for the North region
P1 = first year of recommendation
P2 = second year of recommendation

C = yield control (for current table)
* = variety no longer in trials
[] = limited data
\$ = hybrid variety

KWS = KWS UK (www.kws-uk.com)
Lim = Limagrain UK (www.limagrain.co.uk)
Sen = Senova (www.senova.uk.com)

Syn = Syngenta (www.syngenta.co.uk)
SyP = Syngenta Participations AG (www.syngenta.co.uk)
SU = Saaten Union UK (www.saaten-union.co.uk)