

AHDB Recommended List (Table 6)

Winter barley 2017/18

YIELD, AGRONOMY AND DISEASE RESISTANCE

	YIELD, AGRONOMY AND DISEASE RESISTANCE																Not added to Recommended List		
	RECOMMENDED				C	*	NEW				C	NEW				C	Not added		
	AHDB																		
	Craft	SY Venture	Talisman	Flagon	KWS Orwell	Surge	KWS Infinity	KWS Creswell	KWS Glacier	KWS Tower	California	KWS Cassia	Bazooka \$	Sunningdale \$	Belfry \$	Funky	Volume \$	Average LSD (5%)	Rubinesse
End-use group	Two-row malting				Two-row feed				Six-row feed								Two-row feed		
Scope of recommendation	UK	UK	UK	E&W	UK	UK	UK	N	UK	UK	W	UK	UK	UK	UK	UK	UK		Not added to Recommended List
Fungicide-treated grain yield (% treated controls)																			
United Kingdom (9.4 t/ha)	98	96	96	94	104	103	103	103	102	102	99	99	109	109	108	107	106	2.8	95
East region (9.6 t/ha)	98	96	97	93	104	104	103	102	102	101	99	99	109	107	108	107	105	3.3	96
West region (9.2 t/ha)	97	96	94	94	104	103	102	102	102	103	100	99	109	109	108	106	107	3.8	94
North region (8.9 t/ha)	98	94	95	93	104	102	104	106	103	103	98	101	109	113	107	107	107	4.5	93
Untreated grain yield (% treated control)																			
United Kingdom (9.4 t/ha)	79	72	77	79	83	88	80	76	80	79	81	82	90	91	91	91	84	4.9	80
Agronomic features																			
Resistance to lodging (1-9)	8	7	6	5	8	6	7	7	7	7	8	8	8	7	8	8	7	-	7
Straw height without PGR (cm)	[95]	91	100	101	[91]	[93]	94	92	88	94	95	93	[118]	114	[110]	100	109	4.8	91
Straw height with PGR (cm)	90	86	97	101	87	86	90	88	84	91	92	91	111	107	103	94	104	1.9	86
Ripening (+/-Cassata, -ve = earlier)	0	0	-1	-1	0	0	0	-1	-1	0	-1	0	0	-1	-1	-1	-1	0.8	0
Winter hardiness #	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Disease resistance																			
Mildew (1-9)	6	6	6	6	3	5	4	5	3	5	6	4	4	5	5	6	5	2.0	7
Yellow rust (1-9)	[8]	[7]	[9]	[7]	[6]	[7]	[6]	[8]	[8]	[8]	[7]	[5]	[9]	[6]	[8]	[9]	[8]	3.0	[9]
Brown rust (1-9)	7	6	7	7	7	8	6	5	7	6	5	7	6	6	7	8	5	1.3	7
Rhynchosporium (1-9)	6	4	6	6	6	7	6	6	4	5	5	4	7	7	7	7	7	1.3	7
Net blotch (1-9)	7	6	5	4	6	7	5	4	7	4	6	6	6	6	7	6	6	2.8	7
BaYMV	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

E&W = recommended for the East and West regions

N = recommended for the North region

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

	RECOMMENDED		C	*	NEW					C	NEW			C	Average LSD (5%)	Not added to Recommended List		
	Craft	SY Venture	Talisman	Flagon	KWS Orwell	Surge	KWS Infinity	KWS Creswell	KWS Glacier	KWS Tower	California	KWS Cassia	Bazooka \$	Sunningdale \$	Belfry \$	Funky	Volume \$	Rubinesse
End-use group	Two-row malting				Two-row feed								Six-row feed				Two-row feed	
Scope of recommendation	UK	UK	UK	E&W	UK	UK	UK	N	UK	UK	W	UK	UK	UK	UK	UK	UK	Not added to Recommended List
Breeder/ UK contact																		
Breeder	SyP	SyP	Sen	SyP	KWS	SyP	KWS	KWS	KWS	KWS	Lim	KWS	SyP	SyP	SyP		SyP	Sec
UK contact	Syn	Syn	Sen	Syn	KWS	Syn	KWS	KWS	KWS	KWS	Lim	KWS	Syn	Syn	Syn	KWS	Syn	Agr
Annual treated yield (% control)																		
2012 treated yield (8.5 t/ha)	-	96	94	93	-	-	104	-	103	103	100	101	-	-	-	-	107	-
2013 treated yield (8.7 t/ha)	99	97	97	92	105	104	104	-	104	103	99	101	108	-	107	-	104	-
2014 treated yield (9.7 t/ha)	98	95	96	95	103	102	102	103	102	101	99	98	108	109	107	105	106	96
2015 treated yield (10.3 t/ha)	97	95	96	-	103	101	102	103	102	102	97	98	109	109	107	107	107	95
2016 treated yield (9.0 t/ha)	97	94	93	-	105	104	102	102	101	102	101	100	110	110	109	107	107	93
Soil type (about 50% of trials are medium soils)																		
Light soils (9.3 t/ha)	99	97	97	94	105	103	103	104	102	103	97	99	110	111	107	108	106	95
Heavy soils (10.0 t/ha)	97	96	95	91	103	104	102	100	102	101	102	99	109	106	108	105	107	94
Agronomic characteristics																		
Lodging without PGR (%)	1	2	7	18	0	7	3	4	5	2	1	2	3	5	2	1	4	2
Lodging with PGR (%)	0	1	5	12	0	4	1	1	4	1	1	1	0	2	0	0	2	1
Malting quality																		
Hot water extract (l deg/kg)	309.3	307.5	307.7	305.2	-	-	-	-	-	-	-	-	-	-	-	[295.8]	-	309.3
RL status	P2	-	-	*	P2	P2	-	P1	-	-	-	-	P2	P1	P2	P1	-	Not added

[] = limited data

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

LSD = least significant difference

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

Key to Breeder and UK contact codes:

Agr = Agrii (www.agrii.co.uk)

KWS = KWS UK (www.kws-uk.com)

Lim = Limagrain UK (www.limagrain.co.uk)

Sec = Secobra, France

Sen = Senova (www.senova.uk.com)

Syn = Syngenta (www.syngenta.co.uk)

SyP = Syngenta Participations AG (www.syngenta.co.uk)

P1 = first year of recommendation

P2 = second year of recommendation