

HGCA Recommended List[®] winter barley 2012/13

MARKET OPTIONS AND GRAIN QUALITY



NEW NEW

NEW

	SY Venture	Archer	Winsome	Flagon	Cassata~	Pearl	Retriever	KWS Cassia	Florentine	Saffron	Suzuka	Purdey	Volume \$	Element \$	KWS Meridian	Pelican	Escadre	Sequel	Average LSD (5%)
Variety type	Two-row malting						Two-row feed						Six-row feed						
Scope of recommendation	UK	UK	UK	UK	Sp	UK	UK	UK	UK	UK	UK	East	UK	North	UK	UK	UK	UK	
UK treated yield as % controls (8.5 t/ha)	104	102	99	99	99	96	109	107	106	103	102	98	112	110	110	107	106	103	2.9
Main market options																			
IBD malting approval for brewing use	T	T	F	F	F	F	-	-	-	-	-	-	-	-	-	-	-	-	
Overseas malting	-	-	-	[Y]	Y	Y	-	-	-	-	-	-	-	-	-	-	-	-	
Grain quality																			
Specific weight (kg/hl)	69.3	68.5	69.2	69.7	68.1	70.2	66.8	70.5	68.1	70.1	69.1	70.1	68.4	67.9	65.6	63.5	69.6	69.2	0.7
Screenings % through 2.25 mm	1.2	1.1	1.2	1.3	0.9	1.0	-	1.1	1.3	1.1	-	1.2	2.8	1.2	1.5	-	1.3	2.3	0.7
Screenings % through 2.5 mm	4.2	3.9	4.6	4.1	3.3	3.3	-	3.6	5.2	4.5	-	4.2	12.7	4.5	5.0	-	6.6	10.9	2.4
Nitrogen content (%)	1.67	1.79	1.61	1.61	-	1.64	-	-	-	-	-	-	-	-	-	-	-	-	0.13
Status in RL system																			
Year first listed	12	12	10	05	07	99	07	10	11	05	07	10	09	11	12	07	11	03	
RL Status	P1	P1	-	C	-	C	-	-	P2	C	*	*	-	P2	P1	*	P2	C	

P1, P2 = first and second year of recommendation

Y = suited to that market

F = Full IBD approval

UK = recommended for the UK

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

~ = Cassata has a specific recommendation for growers wanting BaYMV resistant variety for malting

\$ = Element and Volume are hybrid varieties

Variety no longer listed: Boost

® = "HGCA RECOMMENDED LIST" is a registered trademark of the Agriculture and Horticulture Development Board

* = variety no longer in trials

[Y] = may be suited to that market

T = under test for IBD approval

East = recommended for the East region

C = yield control

[] = limited data

Sp = specific recommendation

North = recommended for the North region

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YIELD, AGRONOMY AND DISEASE RESISTANCE



NEW NEW

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	SY Venture	Archer	Winsome	Flagon	Cassata~	Pearl	Retriever	KWS Cassia	Florentine	Saffron	Suzuka	Purdey	Volume \$	Element \$	KWS Meridian	Pelican	Escadre	Sequel	Average LSD (5%)
Variety type	Two-row malting						Two-row feed						Six-row feed						
Scope of recommendation	UK	UK	UK	UK	Sp	UK	UK	UK	UK	UK	UK	East	UK	North	UK	UK	UK	UK	
Fungicide treated grain yield as % treated controls																			
UK with fungicide (8.5 t/ha)	104	102	99	99	99	96	109	107	106	103	102	98	112	110	110	107	106	103	2.9
East region with fungicide (8.4 t/ha)	105	103	100	100	99	96	109	107	105	103	103	100	111	108	107	105	105	101	3.6
North region with fungicide (8.5 t/ha)	103	101	100	99	98	95	111	107	105	100	103	95	116	115	114	111	108	105	4.2
West region with fungicide (8.8 t/ha)	[104]	[101]	99	98	99	95	107	107	106	104	100	97	112	109	[111]	108	106	103	4.6
Untreated grain yield (% treated control in comparable trials)																			
UK without fungicide	84	86	84	85	82	81	86	90	87	85	86	80	94	89	91	91	88	84	4.3
Agronomic features																			
Resistance to lodging	8	7	6	6	8	7	7	7	8	8	7	8	6	6	7	6	6	6	-
Straw height (cm)	82	85	91	94	85	94	81	85	85	85	87	85	98	101	102	100	95	98	3.0
Ripening (+/- Pearl, -ve = earlier)	0	0	-2	-1	0	0	-1	-1	-2	0	-2	+1	-2	-3	-2	-1	-2	-2	0.9
Winter hardiness #	-	-	4	5	6	5	6	5	[5]	5	6	6	6	[5]	-	5	[6]	6	1.1
Disease resistance																			
Mildew	6	6	6	7	4	6	6	5	6	3	6	4	6	6	9	7	5	5	1.2
Yellow rust	[7]	[5]	[7]	8	2	7	9	[6]	[8]	7	9	[6]	7	[7]	[7]	6	[8]	7	2.3
Brown rust	6	5	6	7	7	6	5	7	6	7	6	5	6	4	7	8	5	5	1.3
<i>Rhynchosporium</i>	6	7	8	7	8	6	6	4	7	4	7	8	8	6	6	8	8	8	1.7
Net blotch	[4]	[5]	6	4	4	5	5	7	7	8	7	8	6	7	[8]	6	8	6	2.8
BaYMV	R	R	-	-	R	-	R	R	R	-	R	R	R	R	R	R	R	R	-

[] = limited data

UK = recommended for the UK

Sp = specific recommendation

North = recommended for the North region

East = recommended for the East region

On the 1-9 scales high figures indicate that a variety shows the character to a high degree (e.g. high resistance)

~ = Cassata has a specific recommendation for growers wanting BaYMV resistant variety for malting

\$ = Element and Volume are hybrid varieties

= The winter hardiness scores are taken from extreme tests in the Jura mountains of France

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

Comparisons of variety performance across regions are not valid

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SUPPLEMENTARY DATA

	NEW NEW							NEW											
	SY Venture	Archer	Winsome	Flagon	Cassata	Pearl	Retriever	KWS Cassia	Florentine	Saffron	Suzuka	Purdey	Volume	Element	KWS Meridian	Pelican	Escadre	Sequel	Average LSD (5%)
Variety type	Two-row malting						Two-row feed						Six-row feed						
Scope of recommendation	UK	UK	UK	UK	Sp	UK	UK	UK	UK	UK	UK	East	UK	North	UK	UK	UK	UK	
Breeder/ UK contact																			
Breeder	Syn	Lim	Syn	Syn	Lim	Lim	Sej	KWS	Sen	KWS	Syn	Syn	Syn	Syn	KWS	SU	KWS	Syn	
UK contact	Syn	Lim	Syn	Syn	Lim	Lim	Lim	KWS	Sen	KWS	Syn	Syn	Syn	Syn	KWS	SU	KWS	Syn	
Annual yields as % treated control																			
2007 treated yield (8.3 t/ha)	-	-	[100]	100	98	97	106	[108]	-	103	101	[102]	[111]	-	-	107	-	100	4.3
2008 treated yield (8.8 t/ha)	-	-	100	97	100	98	107	106	105	102	101	100	113	114	-	105	106	103	4.7
2009 treated yield (8.7 t/ha)	107	102	100	99	98	95	110	107	106	102	101	96	-	109	109	108	108	104	3.5
2010 treated yield (8.9 t/ha)	103	100	97	101	99	94	109	105	103	102	100	95	111	109	106	109	106	104	3.9
2011 treated yield (7.9 t/ha)	104	104	101	99	99	95	113	110	109	103	106	100	116	111	116	110	105	103	4.4
Soil type (about 50% of trials are medium soils)																			
Light soils (8.0 t/ha)	104	101	100	99	99	95	111	107	105	102	104	99	112	110	110	104	107	104	4.0
Heavy soils (8.3 t/ha)	106	101	98	100	98	96	109	105	104	104	103	100	109	106	110	106	103	100	5.5
Agronomic characteristics																			
Lodging % without PGR	3	2	21	19	3	4	9	3	1	2	3	2	13	11	10	17	11	21	-
Lodging % with PGR	2	4	9	12	2	2	5	3	1	2	2	1	11	7	5	6	9	10	-
Malting quality																			
Hot water extract (l deg/kg)	309.6	307.4	311.7	307.6	304.5	307.0	-	-	-	-	-	-	-	-	-	-	-	-	1.6

[] = limited data

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

Key to Breeder and UK contact codes:

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

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

Sej = Sejet, Denmark

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

SU = Saaten Union UK Ltd (www.saaten-union.co.uk)

Syn = Syngenta Seeds (www.newfarmcrops.co.uk)

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