

# HGCA Recommended List<sup>®</sup> winter barley 2011/12

## MARKET OPTIONS AND GRAIN QUALITY



	P2		C	C	P2		P1	C	P2		P2 C	P1	P1	*	*	C	Average LSD (5%)
	Cassata ~	Winsome	Flagon	Pearl	Retriever	KWS-Cassia	Florentine	Saffron	Suzuka	Purdey ~	Volume \$	Element \$	Escadre	Pelican	Boost \$	Sequel	
Variety type	Two-row malting				Two-row feed						Six-row feed						
Scope of recommendation	Sp	UK	UK	UK	UK	UK	UK	UK	UK	E	UK	North	UK	UK	UK	UK	
UK treated yield as % controls (8.9 t/ha)	97	97	97	94	105	104	102	100	99	95	109	108	104	104	102	100	2.6
Main market options																	
IBD malting approval for brewing use	F	F	F	F	-	-	-	-	-	-	-	-	-	-	-	-	
Overseas malting	Y	-	[Y]	Y	-	-	-	-	-	-	-	-	-	-	-	-	
Year first listed	07	10	05	99	07	10	11	05	07	10	09	11	11	07	06	03	
Grain quality																	
Specific weight (kg/hl)	68.5	69.5	69.8	70.3	66.5	70.6	68.4	70.2	69.3	70.3	68.7	68.2	69.7	63.5	68.5	69.3	0.9
Screenings % through 2.25 mm	1.2	1.5	1.6	1.2	4.7	1.5	1.6	1.4	1.3	1.5	3.0	1.5	1.7	4.8	[0.0]	2.9	1.4
Screenings % through 2.5 mm	4.6	5.9	5.4	4.1	14.7	4.8	6.5	5.6	4.1	5.5	13.6	5.8	7.9	12.8	[0]	13.0	3.7
Nitrogen content (%)	1.64	1.65	1.66	1.71	-	-	-	-	-	1.68	-	-	-	-	-	-	0.04

P1, P2 = first and second year of recommendation

\* = variety no longer in trials

Y = suited to that market

[Y] = may be suited to that market

F = Full IBD approval

P = Provisional IBD approval

UK = recommended for the UK

E = recommended for the East region

Sp = specific recommendation

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 a BaYMV resistant variety for malting

\$ = Boost, Element and Volume are hybrid varieties

**Varieties no longer listed:** Carat and Colibri.

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## YIELD, AGRONOMY AND DISEASE RESISTANCE

	P2		C	C	P2		P1	C	P2		P2 C	P1	P1	*	*	C	Average LSD (5%)
	Cassata ~	Winsome	Flagon	Pearl	Retriever	KWS-Cassia	Florentine	Saffron	Suzuka	Purdey ~	Volume \$	Element \$	Escadre	Pelican	Boost \$	Sequel	
Variety type	Two-row malting				Two-row feed						Six-row feed						
Scope of recommendation	Sp	UK	UK	UK	UK	UK	UK	UK	UK	E	UK	North	UK	UK	UK	UK	
<b>Grain yield as % treated controls</b>																	
UK with fungicide (8.9 t/ha)	97	97	97	94	105	104	102	100	99	95	109	108	104	104	102	100	2.6
East region with fungicide (8.8 t/ha)	97	98	97	95	105	104	102	101	99	98	108	106	103	103	101	100	3.4
North region with fungicide (9.0 t/ha)	95	96	96	94	108	103	103	97	99	93	112	112	106	107	105	102	4.0
West region with fungicide (9.0 t/ha)	96	95	97	93	103	103	[102]	100	97	93	109	[108]	[106]	105	101	100	4.2
<b>Untreated grain yield (% treated control in comparable trials)</b>																	
UK without fungicide	79	80	82	77	81	85	83	81	83	76	91	87	87	88	82	81	3.3
<b>Agronomic features</b>																	
Resistance to lodging	8	6	6	7	6	8	9	8	7	8	6	6	6	6	7	6	-
Straw height (cm)	87	93	97	97	83	88	87	88	90	88	101	103	98	102	100	102	3.2
Ripening (+/- Pearl, -ve = earlier)	0	-2	-1	0	-1	0	-1	-0	-2	+1	-2	-3	-2	-1	-2	-2	0.9
Winter hardiness #	6	[4]	6	5	6	[6]	-	5	6	[6]	6	-	-	5	4	6	1.1
<b>Disease resistance</b>																	
Mildew	4	7	7	6	6	5	6	3	6	4	7	6	5	7	7	6	1.0
Yellow rust	2	7	9	7	9	6	8	7	9	6	7	8	8	6	8	7	1.7
Brown rust	7	6	8	6	5	7	6	7	7	4	6	4	5	8	4	5	1.3
<i>Rhynchosporium</i>	8	8	7	6	7	4	8	4	7	8	8	7	8	8	7	8	1.1
Net blotch	5	7	5	5	5	8	7	8	7	8	7	7	8	6	7	7	-
BaYMV	R	-	-	-	R	R	R	-	R	R	R	R	R	R	R	R	-

P1, P2 = first and second year of recommendation

\* = variety no longer in trials

Y = suited to that market

[Y] = may be suited to that market

UK = recommended for the UK

E = recommended for the East region

Sp = specific recommendation

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 a BaYMV resistant variety for malting

\$ = Boost, 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

	P2 C C				P2 P1 C			P2 P2 C P1 P1				*	*	C				
	RECOMMENDED																	
	Cassata ~	Winsome	Flagon	Pearl	Retriever	KWS-Cassia	Florentine	Saffron	Suzuka	Purdy	Volume	Element	Escadre	Pelican	Boost	Sequel	Average LSD (5%)	
Variety type	Two-row malting				Two-row feed				Six-row feed									
Scope of recommendation	Sp	UK	UK	UK	UK	UK	UK	UK	UK	E	UK	North	UK	UK	UK	UK		
<b>Breeder/ UK contact</b>																		
Breeder	Lim	Syn	Syn	Lim	Sej	KWS	Sen	KWS	Syn	Syn	Syn	Syn	KWS	SU	Syn	Syn		
UK contact	Lim	Syn	Syn	Lim	Lim	KWS	Sen	KWS	Syn	Syn	Syn	Syn	KWS	SU	Syn	Syn		
<b>Annual yields as % treated control</b>																		
2006 treated yield (9.0 t/ha)	98	-	97	94	104	-	-	100	99	-	109	-	-	105	101	100	2.6	
2007 treated yield (8.4 t/ha)	95	[98]	98	95	103	[106]	-	101	99	[100]	[109]	-	-	105	99	98	4.2	
2008 treated yield (9.0 t/ha)	97	98	94	96	104	104	103	100	98	98	110	112	104	103	107	100	4.7	
2009 treated yield (8.7 t/ha)	98	100	99	95	110	107	106	102	101	96	-	109	108	108	105	104	3.6	
2010 treated yield (9.4 t/ha)	97	95	98	92	106	103	101	99	97	93	108	106	103	107	102	102	3.4	
<b>Soil type (about 50% of trials are medium soils)</b>																		
Light soils (8.4 t/ha)	98	98	96	94	107	104	103	100	101	97	109	109	106	101	102	101	3.6	
Heavy soils (8.7 t/ha)	97	97	98	96	105	103	100	101	99	98	106	103	101	106	99	99	4.4	
<b>Agronomic characteristics</b>																		
Lodging % without PGR	2	11	12	5	8	2	1	2	3	3	10	6	7	9	6	11	-	
Lodging % with PGR	1	7	8	1	4	2	0	1	2	1	8	5	8	3	2	5	-	
<b>Malting quality</b>																		
Hot water extract (l deg/kg)	304.6	312.2	307.8	307.1	-	-	-	-	-	309.1	-	-	-	-	-	-	1.6	

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

### Key to breeder/UK contact codes:

KWS = KWS UK ([www.kws-uk.com](http://www.kws-uk.com))

Sej = Sejet, Denmark

SU = Saaten Union UK Ltd ([www.saaten-union.co.uk](http://www.saaten-union.co.uk))

Lim = Limagrain UK ([www.limagrain.co.uk](http://www.limagrain.co.uk))

Sen = Senova ([www.senova.uk.com](http://www.senova.uk.com))

Syn = Syngenta Seeds ([www.newfarmcrops.co.uk](http://www.newfarmcrops.co.uk))

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