

# HGCA Recommended List<sup>®</sup> Winter Barley 2009/10

## MARKET OPTIONS AND GRAIN QUALITY

	RECOMMENDED		P2	C	C	C		*	P1	*	*	C						
	Wintmalt @	Flagon	Cassata ~	Pearl	Retriever	Saffron	Accrue	Suzuka	Camion	Carat &	Volume \$	Bronx \$	Pelican	Colibri	Boost \$	Amarena	Sequel	Average LSD (5%)
Variety type	Two-row malting				Two-row feed						Six-row feed							
Scope of recommendation	Sp	UK	Sp	UK	UK	UK	UK	UK	UK	Sp	UK	UK	UK	UK	UK	North	UK	
UK treated yield as % control (8.7 t/ha)	100	99	99	96	107	103	103	101	100	97	111	109	107	106	105	104	102	2.4
<b>Main market options</b>																		
IBD malting approval for brewing use #	-	F	F	F	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IBD malting approval for distilling use #	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Overseas malting	-	[Y]	-	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pearling	-	-	-	-	-	-	-	-	-	[Y]	-	-	-	-	-	-	-	-
Year first listed	08	05	07	99	07	05	07	07	04	02	09	07	07	06	06	05	03	
<b>Grain quality</b>																		
Specific weight (kg/hl)	67.0	69.3	68.4	70.2	66.1	69.9	69.5	69.5	70.8	71.2	68.5	66.9	63.6	65.3	68.6	63.9	69.2	0.9
Screenings % through 2.25 mm	2.2	2.7	2.3	1.9	5.3	2.0	3.3	2.9	[1.6]	1.3	4.0	6.6	5.0	6.2	2.3	3.8	4.7	2.3
Screenings % through 2.5 mm	7.3	8.6	8.0	6.2	18.0	7.9	14.7	8.5	[4.9]	3.9	16.1	28.9	14.7	27.1	9.0	13.2	18.2	6.2
Nitrogen content (%)	1.72	1.71	1.75	1.78	1.65	-	-	-	-	-	-	-	-	-	-	-	-	0.08

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

North = recommended for the North 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 is a specific recommendations for growers wanting a BaYMV resistant variety with malting potential

@ = Wintmalt was recommended for growers wanting a BaYMV resistant variety with malting potential but has been rejected for IBD approval

\$ = Bronx, Boost and Volume are hybrid varieties

& = Carat is a specific recommendation for growers wanting an early maturing variety

# IBD approvals updated June 2009

**Variety no longer listed:** Pict

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## YIELD, AGRONOMY AND DISEASE RESISTANCE

	P2		C		C		C		*		P1		*		*		C	
	Wintmalt @	Flagon	Cassata ~	Pearl	Retriever	Saffron	Accrue	Suzuka	Camion	Carat &	Volume \$	Bronx \$	Pelican	Colibri	Boost \$	Amarena	Sequel	Average LSD (5%)
Variety type	Two-row malting				Two-row feed						Six-row feed							
Scope of recommendation	Sp	UK	Sp	UK	UK	UK	UK	UK	UK	Sp	UK	UK	UK	UK	UK	North	UK	
Grain yield as % treated control																		
UK with fungicide (8.7 t/ha)	100	99	99	96	107	103	103	101	100	97	111	109	107	106	105	104	102	2.4
Dry (East) region with fungicide (8.8 t/ha)	100	99	99	95	106	104	103	101	100	97	109	107	106	105	105	103	102	3.5
North region with fungicide (9.0 t/ha)	101	98	98	97	110	101	103	101	100	94	116	112	110	106	107	106	103	3.9
Wet (West) region with fungicide 8.2 t/ha)	97	99	99	97	106	102	103	102	100	98	[113]	109	108	107	105	102	102	4.4
Untreated grain yield (% treated control in comparable trials)																		
UK without fungicide	77	83	80	78	82	83	85	85	81	79	92	86	89	87	84	89	83	3.8
Agronomic features																		
Resistance to lodging	7.0	5.3	7.7	6.9	6.5	7.8	7.6	7.4	7.3	7.9	6.0	4.9	6.5	5.3	7.0	7.3	6.3	-
Straw height (cm)	86	99	89	99	85	89	88	91	88	84	104	105	105	100	102	103	106	2.5
Ripening (+/- Pearl, -ve = earlier)	0	0	0	0	-1	0	-1	-2	-2	-3	-2	-2	-1	-2	-3	-2	-2	0.9
Winter hardiness #	[5]	5	5	5	5	5	5	5	5	5	-	5	6	6	6	5	5	-
Disease resistance																		
Mildew	5	7	4	6	5	3	6	5	5	6	5	7	7	8	7	8	5	1.5
Yellow rust	2	8	2	6	8	7	7	8	7	7	6	7	5	8	8	5	7	1.1
Brown rust	6	7	7	6	6	7	7	7	5	5	5	4	8	7	4	8	5	1.3
<i>Rhynchosporium</i>	6	8	8	7	8	6	8	9	6	7	8	8	8	7	8	8	8	1.3
Net blotch	8	6	5	5	7	8	8	7	8	6	8	8	6	8	8	7	7	-
BaYMV	R	-	R	-	R	-	-	R	-	R	R	R	R	R	R	-	R	-

P1, P2 = first and second year of recommendation

\* = variety no longer in trials

UK = recommended for the UK

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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

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

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

~ = Cassata is a specific recommendations for growers wanting a BaYMV resistant variety with malting potential

@ = Wintmalt was recommended for growers wanting a BaYMV resistant variety with malting potential but has been rejected for IBD approval

\$ = Bronx, Boost and Volume are hybrid varieties

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

& = Carat is a specific recommendation for growers wanting an early maturing variety

Comparisons of variety performance across regions are not valid

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## SUPPLEMENTARY DATA

	P2		C	C	C	C		*		P1		*	*	C				
	RECOMMENDED																	
	Wintmalt	Flagon	Cassata	Pearl	Retriever	Saffron	Accrue	Suzuka	Camion	Carat	Volume	Bronx	Pelican	Colibri	Boost	Amarena	Sequel	Average LSD (5%)
Variety type	Two-row malting				Two-row feed						Six-row feed							
Scope of recommendation	Sp	UK	Sp	UK	UK	UK	UK	UK	UK	Sp	UK	UK	UK	UK	UK	North	UK	
Breeder/ UK contact																		
Breeder	KWS	Syn	Nick	Nick	Sej	KWS	Ack	Syn	KWS	Nick	Syn	Syn	SU	Mom	Syn	Nord	Syn	
UK contact	KWS	Syn	Nick	Nick	Nick	KWS	SU	Syn	KWS	Nick	Syn	Syn	SU	Dalt	Syn	SU	Syn	
Annual yields as % treated control																		
2004 treated yield (8.9 t/ha)	-	99	101	96	110	104	105	105	99	98	-	112	112	108	108	102	102	4.1
2005 treated yield (8.5 t/ha)	99	99	96	95	109	101	106	101	101	98	-	110	110	109	106	105	105	3.6
2006 treated yield (8.7 t/ha)	103	99	100	97	106	102	101	101	99	95	112	108	108	105	104	[105]	103	3.2
2007 treated yield (8.3 t/ha)	97	100	97	97	106	103	102	101	101	96	111	110	107	104	102	[103]	100	4.7
2008 treated yield (8.9 t/ha)	100	97	100	97	107	103	103	101	-	99	113	108	105	105	109	107	103	4.7
Soil type (about 50% of trials are medium soils)																		
Light soils (8.3 t/ha)	100	98	99	96	109	103	104	103	101	96	112	108	108	107	105	104	103	4.5
Heavy soils (8.8 t/ha)	100	100	99	97	107	103	102	102	99	97	108	108	107	106	104	103	100	4.1
Agronomic characteristics																		
Lodging % without PGR	2.7	9.3	1.1	2.6	4.9	0.9	1.3	1.5	2.1	0.9	5.8	9.9	4.0	7.3	2.6	2.3	4.9	
Lodging % with PGR	2.0	8.1	1.1	2.5	2.4	1.1	1.3	1.6	1.4	0.9	4.8	12.6	3.2	10.0	2.1	1.5	3.5	
Malting quality																		
Hot water extract (l deg/kg)	305.6	307.2	304.7	305.9	300.4	-	-	-	-	-	-	-	-	-	-	-	-	2.6

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

### Key to breeder/UK contact codes:

Ack = Saatzucht Ackerman

Dalt = Dalton Seeds ([www.dalmark.co.uk](http://www.dalmark.co.uk))

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

Mom = Momont, France

Nick = Nickerson ([www.nickersonseeds.co.uk](http://www.nickersonseeds.co.uk))

Nord = Nordsaat, Germany

Sej = Sejet, Denmark

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

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

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