

HGCA Recommended List[®] Winter Barley 2008/09

MARKET OPTIONS AND GRAIN QUALITY

	P1		C		P2		C		P2		C		P2		P2		C		*		C		*					
	Wintmalt ~	Flagon	Cassata ~	Pearl	Retriever	Saffron	Accrue	Suzuka	Camion	Carat	Bronx \$	Pelican	Colibri	Boost \$	Sequel	Pict	Amarena	Average LSD (5%)										
Variety type	Two-row malting				Two-row feed																							
Scope of recommendation	Sp	UK	Sp	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	North	
UK treated yield as % control (8.5 t/ha)	100	100	99	97	108	104	103	102	101	97	110	109	107	105	103	102	102										2.6	
Main market options																												
IBD malting approval for brewing use	P	F	F	F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IBD malting approval for distilling use	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Under test for IBD approval	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Overseas malting	-	[Y]	-	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pearling	-	-	-	-	-	-	-	-	-	[Y]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Year first listed	08	05	07	99	07	05	07	07	04	02	07	07	06	06	03	02	05											
Grain quality																												
Specific weight (kg/hl)	67.5	69.8	69.1	70.6	66.6	70.3	69.9	69.9	71.3	71.8	67.6	64.6	65.9	69.2	69.8	70.4	64.4											0.8
Screenings % through 2.25 mm	2.9	3.3	3.0	2.5	5.8	2.4	3.8	3.4	2.6	1.7	7.1	5.5	6.8	2.9	5.4	10.3	5.0											1.8
Screenings % through 2.5 mm	8.2	9.6	9.5	6.9	18.5	8.2	15.2	9.0	7.9	4.3	29.4	15.2	27.8	9.7	18.1	27.1	15.8											4.5
Nitrogen content (%)	1.72	1.69	1.73	1.76	1.64	-	-	-	-	-	-	-	-	-	-	-	-											0.10

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 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
 ~ = Wintmalt and Cassata are specific recommendations for growers wanting a BaYMV resistant variety with malting potential
 \$ = Bronx and Boost are hybrid varieties.

Varieties no longer listed: Cannock, Colossus, Haka, Scylla, Siberia and Spectrum

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YIELD, AGRONOMY AND DISEASE RESISTANCE

	P1		C		P2		C		P2		C		P2		P2		C		*		C		*				
	Wintmalt ~	Flagon	Cassata ~	Pearl	Retriever	Saffron	Accrue	Suzuka	Camion	Carat	Bronx \$	Pelican	Colibri	Boost \$	Sequel	Pict	Amarena	Average LSD		(5%)							
Variety type	Two-row malting				Two-row feed																						
Scope of recommendation	Sp	UK	Sp	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	North
Grain yield as % treated control																											
UK with fungicide (8.5 t/ha)	100	100	99	97	108	104	103	102	101	97	110	109	107	105	103	102	102	2.6									
Dry (East) region with fungicide (8.6 t/ha)	101	99	98	96	107	104	104	102	101	97	109	109	107	105	104	103	101	3.4									
Wet (West) region with fungicide (8.0 t/ha)	98	101	99	97	107	102	103	103	100	98	110	108	106	103	102	102	101	4.3									
North region with fungicide (8.8 t/ha)	[102]	100	100	99	111	103	104	102	102	96	114	111	107	107	103	102	107	4.0									
Untreated grain yield (% treated control in comparable trials)																											
UK without fungicide	77	83	81	80	82	85	87	86	81	78	87	91	88	84	84	82	88	4.2									
Agronomic features																											
Resistance to lodging	8	5	8	7	6	8	8	7	7	8	5	7	5	7	7	6	7										
Straw height (cm)	89	103	93	102	88	92	91	95	92	86	109	108	104	105	110	105	106	2.9									
Ripening (+/- Pearl, -ve = earlier)	0	-1	0	0	-2	0	0	-3	-2	-3	-3	-1	-2	-3	-2	-3	-2	0.9									
Winter hardiness #	-	5	[5]	5	[6]	5	[6]	[5]	6	5	[5]	[4]	5	4	5	6	6										
Disease resistance																											
Mildew	4	7	4	6	5	3	6	5	5	5	7	8	8	7	5	7	9	1.1									
Yellow rust	[2]	7	2	6	7	6	6	7	7	6	6	5	8	7	6	5	5	1									
Brown rust	6	7	7	6	5	6	7	7	5	5	5	8	7	4	5	7	8	0.8									
<i>Rhynchosporium</i>	6	8	8	7	8	6	8	9	6	7	8	8	7	8	8	8	8	0.9									
Net blotch	7	6	5	5	7	8	8	7	8	6	8	6	8	8	7	6	8										
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

North = recommended for 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

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

~ = Wintmalt and Cassata are specific recommendations for growers wanting a BaYMV resistant variety with malting potential

\$ = Bronx and Boost are hybrid varieties

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

Comparisons of variety performance across regions are not valid

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SUPPLEMENTARY DATA

	P1		C		P2		C		P2		C		P2		P2		*	C	P2		P2		C	*	Average LSD (5%)		
	Wintmalt	Flagon	Cassata	Pearl	Retriever	Saffron	Accrue	Suzuka	Camion	Carat	Bronx	Pelican	Colibri	Boost	Sequel	Pict	Amarena										
Variety type	Two-row malting				Two-row feed																						
Scope of recommendation	Sp	UK	Sp	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	North									
Breeder/ UK contact																											
Breeder	KWS	NFC	Nick	Nick	Sej	KWS	Ack	NFC	KWS	Nick	NFC	Nord	Mom	NFC	NFC	KWS	Nord										
UK contact	KWS	NFC	Nick	Nick	Nick	KWS	SU	NFC	KWS	Nick	NFC	SU	Dalt	NFC	NFC	KWS	SU										
Annual yields as % treated control																											
2003 treated yield (7.9 t/ha)	-	101	-	99	-	104	-	-	101	95	-	-	104	104	102	99	99	4.3									
2004 treated yield (8.9 t/ha)	-	99	101	96	111	105	105	106	100	98	113	113	109	109	103	102	102	4.0									
2005 treated yield (8.5 t/ha)	99	99	96	95	110	102	106	101	101	98	110	111	110	107	105	104	105	3.4									
2006 treated yield (8.6 t/ha)	104	100	101	98	107	103	101	102	100	96	109	109	106	105	104	102	106	3.0									
2007 treated yield (8.3 t/ha)	98	100	98	97	106	104	103	102	102	97	111	108	105	102	102	104	[104]	4.4									
Soil type (about 50% of trials are medium soils)																											
Light soils (8.3 t/ha)	100	99	99	97	109	104	105	104	101	97	110	110	107	106	104	103	104	3.9									
Heavy soils (8.5 t/ha)	102	101	99	97	108	104	103	103	100	97	110	109	107	105	101	102	101	4.2									
Agronomic characteristics																											
Lodging % without PGR	1	9	1	2	5	1	1	1	2	1	8	2	5	2	3	3	2										
Lodging % with PGR	1	11	1	3	2	1	1	2	2	1	17	3	10	2	3	4	2										
Malting quality																											
Hot water extract (l deg/kg)	305.9	307.7	304.8	306.1	300.5	-	-	-	-	-	-	-	-	-	-	-	-	3.2									

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

Mom = Momont, France

Nord = Nordsaat, Germany

Dalt = Dalton Seeds (www.dalmark.co.uk)

NFC = New Farm Crops (www.newfarmcrops.co.uk)

Sej = Sejet, Denmark

KWS = KWS UK Ltd (www.kws.de)

Nick = Nickerson (www.nickersonseeds.co.uk)

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

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