

HGCA Recommended List® Winter Barley 2007/08

MARKET OPTIONS AND GRAIN QUALITY

	C		P1		C		P1		P1		P1		C*		*		C		*		P1		P1		P2		P2		C*			
	Flagon	Cassata	Pearl	Retriever	Saffron	Accrue	Suzuka	Camion	Cannock	Spectrum	Haka	Carat	Scylla	Bronx \$	Pelican	Colossus \$	Colibri	Boost \$	Siberia	Sequel	Amarena	Pict	Average LSD (5%)									
Variety type	Two-row malting			Two-row feed									Six-row feed																			
Scope of recommendation	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	North	UK	UK	N&W	UK	UK	UK	UK	North	UK										
UK treated yield as % control (8.4 t/ha)	100	100	97	109	104	104	103	101	101	100	98	98	97	111	111	109	108	107	104	104	103	102	2.9									
Main market options																																
IBD malting approval for brewing use	F	P	F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IBD malting approval for distilling use	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Under test for IBD approval	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Overseas malting	[Y]	-	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pearling	-	-	-	-	-	-	-	-	-	-	Y	[Y]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Year first listed	05	07	99	07	05	07	07	04	03	05	01	02	02	07	07	04	06	06	00	03	05	02										
Grain quality																																
Specific weight (kg/hl)	69.5	69.3	70.8	66.4	70.4	69.9	70.1	71.6	66.7	68.6	71.6	72.0	70.9	67.2	64.4	66.8	66.0	69.6	63.4	70.1	64.8	70.6	0.9									
Screenings % through 2.25 mm	3.5	3.6	2.6	6.2	2.3	4.2	3.8	3.2	4.4	2.3	1.6	1.7	0.9	7.5	5.9	5.7	7.3	3.3	4.4	7.1	5.2	12.1	2.2									
Screenings % through 2.5 mm	10.6	11.2	7.1	19.5	7.7	16.2	10.0	9.0	13.6	6.9	4.5	4.3	9.0	30.4	16.2	17.8	28.9	10.7	15.2	22.6	16.3	30.5	5.2									
Nitrogen content (%)	1.65	1.73	1.73	1.61	-	-	-	1.75	-	-	1.76	-	-	-	-	-	-	-	1.72	-	-	-	0.08									

P1, P2 = first and second year of recommendation.

Y = suited to that market.

UK = recommended for the whole of the UK.

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

\$ = Bronx, Boost and Colossus are hybrid varieties.

* = variety no longer in trials.

[Y] = may be suited to that market.

N&W = recommended for North and wet (West) regions.

C = yield control.

F = Full IBD approval.

[] = limited data.

North = recommended for the North region.

Variety no longer listed: Fanfare

® = "HGCA RECOMMENDED LIST" is a registered trademark of the Home-Grown Cereals Authority.

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YIELD, AGRONOMY AND DISEASE RESISTANCE

	C	P1	C	P1	P1	P1	C*	*	C	*	P1	P1	P2	P2	C*										
	RECOMMENDED																								
	Flagon	Cassata	Pearl	Retriever	Saffron	Accrue	Suzuka	Camion	Cannock	Spectrum	Haka	Carat	Scylla	Bronx \$	Pelican	Colossus \$	Collibri	Boost \$	Siberia	Sequel	Amarena	Pict	Average LSD (5%)		
Variety type	Two-row malting			Two-row feed									Six-row feed												
Scope of recommendation	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	North	UK	UK	N&W	UK	UK	UK	UK	UK	North	UK		
Grain yield as % treated control																									
UK with fungicide (8.4 t/ha)	100	100	97	109	104	104	103	101	101	100	98	98	97	111	111	109	108	107	104	104	103	102	2.9		
Dry (East) region with fungicide (8.4 t/ha)	101	99	96	109	105	105	103	101	100	99	99	98	97	110	112	108	109	107	104	105	102	103	3.7		
Wet (West) region with fungicide (8.0 t/ha)	102	100	98	106	103	102	104	100	99	100	96	98	97	110	107	110	108	105	105	104	101	103	4.5		
North region with fungicide (8.7 t/ha)	98	101	99	113	104	105	103	102	102	102	98	96	100	[114]	113	111	107	109	104	104	107	101	4.4		
Untreated grain yield (% treated control in comparable trials)																									
UK without fungicide	83	79	79	83	85	86	85	80	76	76	80	78	78	88	89	80	88	85	83	84	88	82	4.5		
Agronomic features																									
Resistance to lodging	5	8	7	7	8	8	8	7	7	9	8	8	8	5	7	6	6	7	8	7	8	7	-		
Straw height (cm)	105	94	105	90	94	94	97	94	97	91	94	89	91	111	109	115	106	107	94	111	107	106	4.4		
Ripening (+/- Pearl, -ve = earlier)	-1	-1	0	-2	-1	-1	-3	-3	+2	-3	-2	-3	-2	-3	-2	-3	-2	-3	-4	-3	-3	-3	1.0		
Winter hardiness #	5	-	5	-	5	-	-	6	4	6	7	5	7	-	-	5	[5]	[4]	4	6	6	6	1.3		
Disease resistance																									
Mildew	6	5	6	6	4	6	6	5	4	5	7	6	6	7	7	4	8	7	5	6	9	7	0.9		
Yellow rust	8	3	5	7	5	6	7	7	8	7	7	6	6	6	5	3	8	7	4	5	3	5	1.2		
Brown rust	7	7	7	5	7	6	7	5	5	5	7	4	6	5	8	3	7	4	5	6	8	7	0.8		
<i>Rhynchosporium</i>	8	8	7	8	6	8	8	7	8	6	5	7	7	8	8	8	8	8	8	8	8	8	0.9		
Net blotch	6	5	5	7	8	8	6	8	8	6	7	6	8	8	6	7	8	8	5	7	8	6	-		
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.

C = yield control.

[] = limited data.

UK = recommended for the whole of the UK.

N&W = recommended for the North and wet (West) regions.

North = recommended for the North Region.

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.

\$ = Bronx, Boost and Colossus 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

	C		P1		C		P1		P1		P1		C*		*		C		*		P1		P1		P2		P2		C*			
	RECOMMENDED																															
	Flagon	Cassata	Pearl	Retriever	Saffron	Accrue	Suzuka	Camion	Cannock	Spectrum	Haka	Carat	Scylla	Bronx \$	Pelican	Colossus \$	Collibri	Boost \$	Siberia	Sequel	Amarena	Pict	Average LSD (5%)									
Variety type	Two-row malting			Two-row feed									Six-row feed																			
Scope of recommendation	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	North	UK	UK	N&W	UK	UK	UK	UK	North	UK										
Breeder/ UK contact																																
Breeder	NFC	Nick	Nick	Sej	CPB	Ack	NFC	CPB	Nick	Nick	CPB	Nick	CPB	NFC	Nord	NFC	Mom	NFC	Sec	NFC	Nord	CPB										
UK contact	NFC	Nick	Nick	Nick	CPB	SU	NFC	CPB	Nick	Nick	CPB	Nick	CPB	NFC	SU	NFC	Dalt	NFC	Dal	NFC	SU	CPB										
Annual yields as % treated control																																
2002 treated yield (7.9 t/ha)	100	-	97	-	104	-	-	101	98	100	99	99	99	-	-	105	-	-	105	105	100	102	3.6									
2003 treated yield (7.9 t/ha)	102	-	99	-	105	-	-	102	102	99	98	95	99	-	-	109	105	105	103	102	100	99	3.7									
2004 treated yield (8.8 t/ha)	100	102	97	113	106	107	107	101	100	103	96	99	97	114	114	109	110	110	103	104	104	103	4.1									
2005 treated yield (8.6 t/ha)	100	97	96	110	103	107	102	102	99	100	-	99	97	111	111	112	111	108	107	106	107	105	3.7									
2006 treated yield (8.7 t/ha)	100	101	97	106	103	101	102	100	103	98	-	96	-	109	108	109	105	104	-	103	106	102	2.8									
Soil type (about 50% of trials are medium soils)																																
Light soils (8.3 t/ha)	100	100	97	111	105	106	105	102	100	101	99	98	99	111	113	108	107	108	104	104	104	103	4.4									
Heavy soils (8.4 t/ha)	101	99	98	108	104	103	103	101	101	99	98	98	97	111	108	110	110	106	105	103	103	102	4.5									
Agronomic characteristics																																
Lodging % without PGR	9.8	0.7	2.1	4.3	0.7	0.6	1.1	1.7	4.1	0.0	1.1	0.7	0.9	4.5	1.4	6.2	3.7	1.6	0.7	1.7	1.1	2.4										
Lodging % with PGR	8.7	0.6	1.9	1.4	0.7	0.7	1.1	1.1	1.6	0.0	0.8	0.6	0.6	9.1	1.4	4.2	4.1	1.0	0.8	1.1	1.1	2.7										
Malting quality																																
Hot water extract (l deg/kg)	307.2	305.2	305.5	301.2	-	-	-	301.3	-	-	299.1	-	-	-	-	-	-	-	-	-	-	-	3.9									

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.

CPB = CPB Twyford Ltd (www.cpb-twyford.co.uk).

Dal = Dalgety (www.masstock.co.uk).

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

Mom = Moment, France.

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

Nick = Nickerson-Advanta Ltd (www.nickersonuk.com).

Nord = Nordsaat, Ger.

Sec = Secobra, France.

Sej = Sejet, Denmark.

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

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