


HGCA Recommended List[®] winter barley 2010/11

MARKET OPTIONS AND GRAIN QUALITY

	P1	C	P1	C	P1	C	*	P1	*	C	Average LSD (5%)					
	Winsome	Flagon	Purdey ~	Cassata ~	Pearl	Retriever	KWS-Cassia	Saffron	Suzuka	Carat &		Volume \$ +	Pelican	Collibri	Boost \$	Sequel
Variety type	Two-row malting					Two-row feed					Six-row feed					
Scope of recommendation	UK	UK	E & Sp	Sp	UK	UK	UK	UK	UK	Sp	UK	UK	UK	UK	UK	
UK treated yield as % control (8.6 t/ha)	100	99	99	98	96	107	107	103	101	97	112	107	106	105	103	2.6
Main market options																
IBD malting approval for brewing use	T	F	T	F	F	-	-	-	-	-	-	-	-	-	-	-
Overseas malting	-	[Y]	-	-	Y	-	-	-	-	-	-	-	-	-	-	-
Pearling	-	-	-	-	-	-	-	-	-	[Y]	-	-	-	-	-	-
Year first listed	10	05	10	07	99	07	10	05	07	02	09	07	06	06	03	-
Grain quality																
Specific weight (kg/hl)	69.7	69.9	70.4	68.6	70.5	66.6	70.8	70.3	69.5	71.6	68.9	64.0	65.5	68.8	69.5	0.9
Screenings % through 2.25 mm	2.0	2.2	2.1	1.8	1.5	4.8	1.9	1.9	2.4	0.8	3.6	4.5	5.8	1.9	3.7	2.0
Screenings % through 2.5 mm	6.8	7.3	6.7	6.9	5.2	16.8	6.2	7.4	7.3	2.6	15.6	13.5	26.0	7.9	16.2	5.7
Nitrogen content (%)	1.71	1.68	1.72	1.68	1.74	-	-	-	-	-	-	-	-	-	-	0.06

Other Variety not added to RL

Malabar
Six-row feed
-
108
-
-
-
64.0
3.2
19.2
-

P1 = first year of recommendation

* = variety no longer in trials

Y = suited to that market

[Y] = may be suited to that market

F = Full IBD approval

T = under test for 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 and Purdey have specific recommendations for growers wanting a BaYMV resistant variety for malting

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

\$ = Boost and Volume are hybrid varieties


+ = Volume remains P1 as it was not in trial in 2009 due to seed problems

Varieties no longer listed: Accrue, Amarena, Bronx, Camion and Wintmalt

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YIELD, AGRONOMY AND DISEASE RESISTANCE

RECOMMENDED 	P1	C	P1	C	P1	C	*	P1	*	C	Average LSD (5%)					
	Winsome	Flagon	Purdey ~	Cassata ~	Pearl	Retriever	KWS-Cassia	Saffron	Suzuka	Carat &	Volume \$ +	Pelican	Colibri	Boost \$	Sequel	
Variety type	Two-row malting					Two-row feed					Six-row feed					
Scope of recommendation	UK	UK	E & Sp	Sp	UK	UK	UK	UK	UK	Sp	UK	UK	UK	UK	UK	
Grain yield as % treated control																
UK with fungicide (8.6 t/ha)	99.9	98.6	98.6	98.4	96.2	107.1	106.9	102.5	101.1	96.8	111.9	107.2	105.6	105.0	102.7	2.6
Dry (East) region with fungicide (8.8 t/ha)	100	99	101	99	96	106	108	103	101	97	109	106	105	104	102	3.6
North region with fungicide (8.7 t/ha)	[100]	98	[98]	97	97	111	[106]	101	102	95	116	110	107	108	104	4.1
Wet (West) region with fungicide (8.2 t/ha)	[100]	99	[96]	98	96	106	[106]	103	101	98	[113]	108	106	105	103	4.6
Untreated grain yield (% treated control in comparable trials)																
UK without fungicide	82	83	77	81	79	83	87	83	85	79	92	90	87	84	83	3.5
Agronomic features																
Resistance to lodging	5.6	5.4	7.3	7.6	7.1	6.4	7.8	7.8	7.5	7.8	5.9	6.5	5.5	6.9	6.2	-
Straw height (cm)	94	98	89	88	97	84	89	88	90	82	102	103	99	100	104	3.0
Ripening (+/- Pearl, -ve = earlier)	-2	-1	+1	0	0	-1	-1	0	-2	-2	-1	-1	-1	-3	-2	1.0
Winter hardiness #	-	6	-	6	5	6	-	5	6	6	[6]	5	5	5	6	1.0
Disease resistance																
Mildew	6.3	6.7	4.1	3.9	5.9	6.0	4.6	2.8	5.7	6.6	5.0	7.2	7.7	7.0	5.7	1.1
Yellow rust	8.5	8.3	5.7	1.6	6.6	7.9	5.6	6.3	8.0	7.1	5.9	5.3	8.4	7.6	6.2	1.4
Brown rust	5.9	7.2	4.8	7.1	6.0	5.8	7.0	7.0	7.2	4.8	4.7	8.1	6.5	3.9	5.7	1.0
<i>Rhynchosporium</i>	8.0	7.6	7.8	7.5	5.9	8.0	4.2	4.0	8.1	5.3	7.8	7.9	6.5	7.0	8.1	1.7
Net blotch	6.7	5.5	7.9	5.1	5.3	6.3	7.5	7.9	7.0	5.9	7.5	6.4	7.7	7.2	6.6	0
BaYMV	-	-	R	R	-	R	R	-	R	R	R	R	R	R	R	

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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)

~ = Cassata and Purdey have specific recommendations for growers wanting a BaYMV resistant variety for malting

\$ = Boost and Volume are hybrid varieties

+ = Volume remains P1 as it was not in trial in 2009 due to seed problems

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

= 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

Other Variety not added to RL

Malabar
Six-row feed
-
108
107
[110]
[110]
84
5
93
-2
-
7
5
6
8
6
R

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SUPPLEMENTARY DATA

	P1		C	P1	C	P1	C	*	P1	*	C			Average LSD (5%)		
	Winsome	Flagon	Purdey	Cassata	Pearl	Retriever	KWS-Cassia	Saffron	Suzuka	Carat	Volume	Pelican	Collibri	Boost	Sequel	
Variety type	Two-row malting					Two-row feed					Six-row feed					
Scope of recommendation	UK	UK	E & Sp	Sp	UK	UK	UK	UK	UK	Sp	UK	UK	UK	UK	UK	
Breeder/ UK contact																
Breeder	Syn	Syn	Syn	Nick	Nick	Sej	KWS	KWS	Syn	Nick	Syn	SU	Mom	Syn	Syn	
UK contact	Syn	Syn	Syn	Nick	Nick	Nick	KWS	KWS	Syn	Nick	Syn	SU	Dalt	Syn	Syn	
Annual yields as % treated control																
2005 treated yield (8.5 t/ha)	-	99	-	96	95	109	-	101	101	98	-	110	109	106	105	3.7
2006 treated yield (8.7 t/ha)	-	99	-	100	97	106	-	102	101	95	112	108	105	104	103	3.0
2007 treated yield (8.3 t/ha)	100	100	102	97	97	106	108	103	101	96	111	107	104	102	100	4.7
2008 treated yield (8.8 t/ha)	100	97	100	100	98	107	106	102	101	99	113	105	105	109	103	5.1
2009 treated yield (8.8 t/ha)	100	99	96	98	95	109	107	103	101	95	-	108	[106]	105	104	3.7
Soil type (about 50% of trials are medium soils)																
Light soils (8.3 t/ha)	101	98	100	99	96	109	107	102	102	96	112	106	107	105	104	4.3
Heavy soils (8.7 t/ha)	98	100	101	99	97	107	105	103	102	96	108	107	106	103	101	4.7
Agronomic characteristics																
Lodging % without PGR	6	8	1	1	2	4	0	1	1	0	6	5	6	3	6	
Lodging % with PGR	9	8	2	1	2	4	2	2	2	2	6	3	10	2	4	
Malting quality																
Hot water extract (l deg/kg)	310.6	307.3	308.8	304.3	306.6	-	-	-	-	-	-	-	-	-	-	1.9

Other Variety not added to RL

Malabar
Six-row feed
-
Mas
Mas
-
111
104
110
-
111
103
-
9
8
-

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

Key to breeder/UK contact codes:

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

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

Mas = Masstock Arable (www.masstock.co.uk)

Mom = Momont

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

Sej = Sejet

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

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

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