

# HGCA Recommended List<sup>®</sup> winter barley 2013/14

## MARKET OPTIONS AND GRAIN QUALITY



	New		New			New			C	C	New	New		C	New		*	C			C*	Average LSD (5%)		
	Talisman	SY Venture	KWS Joy	Mezmaar	Soloman	Archer	Winsome	Cassata ~	Flagon	Pearl	KWS Glacier	Retriever	Matros	KWS Cassia	California	Florentine	Saffron	Suzuka	Volume \$	KWS Meridian	Escadre	Sequel		
Variety type	Two-row malting										Two-row feed							Six-row feed						
Scope of recommendation	UK	UK	UK	UK	UK	UK	UK	Sp	UK	UK	UK	UK	East	UK	West	UK	UK	UK	UK	UK	UK	UK	UK	
UK treated yield as % controls (8.8 t/ha)	102	101	100	100	100	99	96	96	96	93	107	105	104	104	103	102	99	99	109	105	102	99	2.8	
Main market options																								
IBD malting approval for brewing use	T	P	T	T	T	P	F	F	F	F	-	-	-	-	-	-	-	-	-	-	-	-	-	
Overseas malting	-	-	-	-	-	-	-	Y	[Y]	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	
Grain quality																								
Specific weight (kg/hl)	67.9	69.7	68.8	67.6	67.6	69.1	69.7	68.6	70.1	70.8	69.9	66.9	68.1	71.1	69.2	68.6	70.5	69.5	68.9	66.0	70.1	69.5	0.7	
Screenings % through 2.25 mm	[2.7]	1.5	[1.4]	[5.0]	[1.6]	1.2	1.3	1.0	1.4	1.0	[1.7]	-	2.0	1.1	[0.7]	1.4	1.2	-	3.4	1.8	1.5	2.8	1.0	
Screenings % through 2.5 mm	[7.3]	4.8	[4]	[12.7]	[4.6]	3.6	4.4	2.8	4.0	2.8	[5.7]	-	5.3	3.1	[2.7]	5.0	4.2	-	14.2	5.2	6.4	11.4	2.9	
Nitrogen content (%)	1.63	1.65	1.70	1.58	1.69	1.76	1.61	-	1.63	1.65	-	-	-	-	-	-	-	-	-	-	-	-	0.17	
Status in RL system																								
Year first listed	13	12	13	13	13	12	10	07	05	99	13	07	13	10	13	11	05	07	09	12	11	03		
RL Status	P1	P2	P1	P1	P1	P2	-	-	-	-	P1	-	P1	-	P1	-	-	-	-	P2	-	-		

**Varieties no longer listed:** Element, Pelican and Purdey

~ = Cassata has a specific recommendation for growers wanting BaYMV resistant variety for malting

\$ = Volume is a hybrid variety

UK = recommended for the UK

East = recommended for the East region

North = recommended for the North region

West = recommended for the West region

Sp = specific recommendation

F = full IBD approval

P = provisional IBD approval

Y = suited to that market

[Y] = may be suited to that market

[ ] = limited data

P1 = first year of recommendation

P2 = second year of recommendation

\* = variety no longer in trials

C = yield control

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

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## YIELD, AGRONOMY AND DISEASE RESISTANCE

	New		New			New		C		C		New		New		C		New		*	C		C*		Average LSD (5%)	
	Talisman	SY Venture	KWS Joy	Mezmaar	Soloman	Archer	Winsome	Cassata ~	Flagon	Pearl	KWS Glacier	Retriever	Matros	KWS Cassia	California	Florentine	Saffron	Suzuka	Volume \$	KWS Meridian	Escadre	Sequel				
Variety type	Two-row malting										Two-row feed							Six-row feed								
Scope of recommendation	UK	UK	UK	UK	UK	UK	UK	Sp	UK	UK	UK	UK	East	UK	West	UK	UK	UK	UK	UK	UK	UK	UK	UK		
Fungicide treated grain yield as % treated controls																										
UK with fungicide (8.8 t/ha)	102	101	100	100	100	99	96	96	96	93	107	105	104	104	103	102	99	99	109	105	102	99		2.8		
East region with fungicide (8.7 t/ha)	103	102	102	102	103	100	97	96	97	93	109	105	106	103	104	102	100	100	109	103	101	99		3.2		
North region with fungicide (8.6 t/ha)	101	97	97	95	96	98	95	94	94	92	105	106	102	105	[101]	100	96	99	110	107	103	100		4.2		
West region with fungicide (9.1 t/ha)	[99]	100	[100]	[99]	[96]	98	95	96	95	93	[104]	102	102	104	104	102	100	96	109	106	102	100		3.8		
Untreated grain yield (% treated control in comparable trials)																										
UK without fungicide	86	80	78	79	84	82	81	79	82	78	87	82	91	86	90	84	82	82	91	89	84	81		4.2		
Agronomic features																										
Resistance to lodging	6	8	6	5	7	7	6	8	5	7	7	6	7	8	8	8	8	7	6	7	7	6		-		
Straw height (cm)	90	85	87	89	81	86	92	87	96	96	81	84	93	87	88	87	86	90	99	102	96	99		2.6		
Ripening (+/- Pearl, -ve = earlier)	-2	0	0	-1	-2	-1	-2	+1	-1	0	-1	-1	0	0	-1	-1	0	-2	-2	-2	-2	-2		1.0		
Winter hardiness #	-	[5]	-	-	-	[7]	5	6	5	5	-	6	[6]	5	[6]	6	5	6	6	[6]	6	6		0.9		
Disease resistance																										
Mildew	7	6	5	5	6	6	6	4	6	6	4	6	7	4	6	6	3	5	6	8	5	5		1.2		
Yellow rust	[7]	[7]	[4]	[4]	[7]	[5]	7	2	8	7	[7]	9	[5]	5	[6]	8	7	9	6	[7]	8	6		2.2		
Brown rust	6	5	6	6	7	5	6	7	7	6	6	5	7	7	5	6	7	[6]	5	6	5	5		0.9		
<i>Rhynchosporium</i>	7	6	5	7	6	7	7	8	7	5	6	6	7	4	6	7	4	6	8	6	8	7		1.4		
Net blotch	5	5	6	6	5	6	6	4	4	5	6	6	5	7	7	7	8	7	6	7	8	6		5.5		
BaYMV	R	R	R	R	R	R	-	R	-	-	R	R	-	R	R	R	-	R	R	R	R	R		-		

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

Comparisons of variety performance across regions are not valid

~ = Cassata has a specific recommendation for growers wanting BaYMV resistant variety for malting

\$ = Volume is a hybrid 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

UK = recommended for the UK

West = recommended for the West region

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\* = variety no longer in trials

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## SUPPLEMENTARY DATA

	New		New			New		C		C		New		New		C		New		*	C		C*		Average LSD (5%)
	Talisman	SY Venture	KWS Joy	Mezmaar	Soloman	Archer	Winsome	Cassata ~	Flagon	Pearl	KWS Glacier	Retriever	Matros	KWS Cassia	California	Florentine	Saffron	Suzuka	Volume \$	KWS Meridian	Escadre	Sequel			
<b>Variety type</b>	Two-row malting										Two-row feed										Six-row feed				
Scope of recommendation	UK	UK	UK	UK	UK	UK	UK	Sp	UK	UK	UK	UK	East	UK	West	UK	UK	UK	UK	UK	UK	UK	UK	UK	
<b>Breeder/ UK contact</b>																									
Breeder	Sen	SCP	KWS	SCP	SCP	Lim	SCP	Lim	SCP	Lim	KWS	Sej	Lim	KWS	Lim	Sen	KWS	SCP	SCP	KWS	KWS	SCP	SCP		
UK contact	Sen	SS	KWS	SS	SS	Lim	SS	Lim	SS	Lim	KWS	Lim	Lim	KWS	Lim	Sen	KWS	SS	SS	KWS	KWS	SS	SS		
<b>Annual yields as % treated control</b>																									
2008 treated yield (9.1 t/ha)	-	-	-	-	-	-	97	96	94	95	-	104	-	103	-	102	99	98	109	-	103	100	4.4		
2009 treated yield (8.8 t/ha)	-	106	-	-	-	101	99	97	97	94	-	108	106	106	104	105	101	100	-	108	107	103	3.4		
2010 treated yield (9.2 t/ha)	104	100	101	101	101	97	95	96	98	91	107	106	104	102	103	100	99	97	108	103	103	101	3.7		
2011 treated yield (8.3 t/ha)	107	100	103	102	98	100	97	95	94	92	107	108	106	105	104	104	99	102	111	110	100	98	4.3		
2012 treated yield (8.4 t/ha)	96	99	96	95	98	99	96	95	96	95	106	100	101	105	104	100	100	[96]	108	102	100	97	4.4		
<b>Soil type (about 50% of trials are medium soils)</b>																									
Light soils (8.4 t/ha)	102	101	99	100	100	99	97	96	96	93	105	107	104	103	104	102	98	100	108	104	103	100	3.7		
Heavy soils (8.5 t/ha)	104	105	104	102	105	99	97	96	97	94	111	105	106	102	102	102	101	101	109	106	100	98	5.3		
<b>Agronomic characteristics</b>																									
Lodging % without PGR	18	3	11	21	3	7	21	3	25	5	4	14	5	4	1	1	3	4	13	6	8	15	-		
Lodging % with PGR	10	1	7	19	3	3	9	2	15	2	4	8	4	2	1	1	2	2	11	2	5	5	-		
<b>Malting quality</b>																									
Hot water extract (l deg/kg)	309.4	309.2	308.2	310.1	309.0	307.3	311.7	{304.5}	306.6	305.9	-	-	-	-	-	-	-	-	-	-	-	-	1.6		

[ ] = limited data

{ } = historical data

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

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### Key to Breeder and UK contact codes:

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

Sen = Senova (www.senova.uk.com)

Lim = Limagrain UK (www.limagrain.co.uk)

SCP = Syngenta Crop Protection (www.syngenta.co.uk)

Sej = Sejet, Denmark

SS = Syngenta Seeds (www.syngenta.co.uk)

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