

# HGCA Recommended List® Winter barley 2014/15

## MARKET OPTIONS AND GRAIN QUALITY



	* C C		NEW		NEW		NEW C		C		C*											
	Talisman	SY Venture	Archer	Winsome	Flagon	Cassata ~	Pearl	KWS Tower	KWS Glacier	Tetris	Retriever	Cavalier	KWS Cassia	Matros	California	Florentine	Saffron	Volume \$	KWS Meridian	Escadre	Sequel	Average LSD (5%)
Variety type	Two-row malting							Two-row feed							Six-row feed							
Scope of recommendation	UK	UK	UK	UK	UK	Sp	UK	UK	UK	UK	North	UK	East	West	UK	UK	UK	UK	UK	North	UK	
<b>Fungicide treated grain yield (% treated control)</b>																						
UK with fungicide (8.7 t/ha)	101	100	98	95	95	95	91	106	106	106	105	105	103	103	102	101	98	108	104	101	99	3.0
East region with fungicide (8.7 t/ha)	102	101	99	96	96	95	92	107	108	108	105	106	103	104	103	101	98	108	103	100	98	3.7
West region with fungicide (9.0 t/ha)	98	100	98	94	95	95	92	105	104	[103]	103	[102]	103	100	102	102	100	108	105	101	99	3.9
North region with fungicide (8.4 t/ha)	100	97	98	95	94	95	90	106	105	104	106	107	104	102	101	99	95	108	106	102	100	4.1
<b>Untreated grain yield (% treated control)</b>																						
UK without fungicide (8.7 t/ha)	87	82	83	82	84	81	79	88	89	89	84	84	88	92	90	85	83	90	90	84	82	4.0
<b>Main market options</b>																						
IBD malting approval for brewing use	P	F	P	O	F	F	F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Overseas malting	-	-	-	-	[Y]	Y	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Grain quality</b>																						
Specific weight (kg/hl)	68.1	70.3	69.3	69.9	70.3	69.0	71.0	68.2	70.2	66.5	67.4	70.6	71.3	68.0	69.5	68.9	70.7	68.8	66.2	70.6	69.8	0.9
Screenings % through 2.25 mm	2.7	2.2	1.5	1.9	2.0	1.6	1.5	1.0	1.6	2.4	-	2.4	1.3	2.4	[1.3]	2.0	1.7	5.3	2.2	2.0	3.5	1.0
Screenings % through 2.5 mm	6.9	5.0	3.4	4.9	4.8	3.7	3.4	2.6	4.1	5.6	-	5.9	3.0	5.4	[2.9]	5.4	4.3	14.4	5.2	6.7	10.1	2.3
Nitrogen content (%)	1.64	1.67	1.78	1.61	1.66	1.69	1.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.14
<b>Status in RL system</b>																						
Year first listed	13	12	12	10	05	07	99	14	13	14	07	14	10	13	13	11	05	09	12	11	03	
RL Status	P2	-	-	*	-	-	-	P1	P2	P1	-	P1	-	P2	P2	-	-	-	-	-	-	*

Varieties no longer listed: KWS Joy, Mezmaar, Soloman, Suzuka

- = 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

West = recommended for the West region

North = recommended for the North region

Sp = specific recommendation

F = full IBD approval

P = provisional IBD approval

O = No longer approved by IBD

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.

® = "HGCA RECOMMENDED LIST" is a registered trademark of the Agriculture and Horticulture Development Board

# HGCA Recommended List<sup>®</sup> Winter barley 2014/15

## YIELD, AGRONOMY AND DISEASE RESISTANCE



	RECOMMENDED		*	C	C		NEW	NEW	NEW	C							C		C*			
	Talisman	SY Venture	Archer	Winsome	Flagon	Cassata ~	Pearl	KWS Tower	KWS Glacier	Tetris	Retriever	Cavalier	KWS Cassia	Matros	California	Florentine	Saffron	Volume \$	KWS Meridian	Escadre	Sequel	Average LSD (5%)
Variety type	Two-row malting							Two-row feed							Six-row feed							
Scope of recommendation	UK	UK	UK	UK	UK	Sp	UK	UK	UK	UK	UK	North	UK	East	West	UK	UK	UK	UK	North	UK	
UK treated yield as % treated control (8.7 t/ha)	101	100	98	95	95	95	91	106	106	106	105	105	103	103	102	101	98	108	104	101	99	3.0
<b>Untreated grain yield (as % treated controls)</b>																						
UK without fungicide (8.7 t/ha)	87	82	83	82	84	81	79	88	89	89	84	84	88	92	90	85	83	90	90	84	82	4.0
<b>Agronomic features</b>																						
Resistance to lodging	6	7	7	6	5	8	7	7	7	6	6	6	7	7	8	8	8	6	7	7	6	-
Straw height (cm)	91	84	86	92	96	88	96	88	81	92	84	82	87	94	89	87	85	98	101	95	98	2.7
Ripening (+/-Cassata, -ve = earlier)	-2	-1	-1	-2	-2	0	0	-1	-2	-1	-2	-2	-1	0	-1	-2	-1	-2	-2	-2	-3	1.0
Winter hardiness #	[6]	6	6	5	5	6	5	[6]	[6]	-	6	-	5	6	6	6	5	6	6	6	6	0.8
<b>Disease resistance</b>																						
Mildew	6	6	7	6	6	4	6	5	4	5	6	5	4	7	6	6	3	5	7	3	4	1.5
Yellow rust	[7]	[7]	[5]	7	8	2	7	[7]	[7]	[4]	9	[9]	5	[5]	[6]	8	7	6	[7]	8	6	2.7
Brown rust	6	5	5	6	7	7	6	6	6	7	5	6	7	7	5	6	7	5	6	5	5	1.1
Rhynchosporium	6	5	6	6	6	7	5	6	6	8	5	5	4	7	5	6	4	7	6	7	7	1.1
Net blotch	5	5	6	6	4	4	4	4	6	[4]	5	[5]	7	5	7	6	7	6	7	7	5	1.7
BaYMV	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

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## SUPPLEMENTARY DATA



	Talisman	SY Venture	Archer	Winsome	Flagon	Cassata ~	Pearl	KWS Tower	KWS Glacier	Tetris	Retriever	Cavalier	KWS Cassia	Matros	California	Florentine	Saffron	Volume \$	KWS Meridian	Escadre	Sequel	Average LSD (5%)	
				*	C	C		NEW	NEW	NEW			C					C				C*	
Variety type	Two-row malting							Two-row feed							Six-row feed								
Scope of recommendation	UK	UK	UK	UK	UK	Sp	UK	UK	UK	UK	UK	North	UK	East	West	UK	UK	UK	UK	North	UK		
Breeder/ UK contact																							
Breeder	Sen	SCP	Lim	SCP	SCP	Lim	Lim	KWS	KWS	SCP	Sej	Lim	KWS	Sej	Lim	Sen	KWS	SCP	KWS	KWS	SCP		
UK contact	Sen	Syn	Lim	Syn	Syn	Lim	Lim	KWS	KWS	Syn	Lim	Lim	KWS	Lim	Lim	Sen	KWS	Syn	KWS	KWS	Syn		
Annual yields as % treated controls																							
2009 treated yield (8.8 t/ha)	-	105	100	98	97	96	93	-	-	-	108	-	105	106	103	104	101	-	107	107	102	3.4	
2010 treated yield (9.2 t/ha)	103	99	96	94	97	95	90	108	106	-	104	-	101	103	102	99	98	107	102	102	100	3.6	
2011 treated yield (8.3 t/ha)	106	99	99	96	94	94	90	107	106	111	107	112	104	106	104	103	98	110	110	100	97	4.5	
2012 treated yield (8.4 t/ha)	96	98	98	96	95	95	94	105	105	102	100	99	104	101	104	100	99	109	102	100	98	4.5	
2013 treated yield (8.4 t/ha)	101	102	100	[94]	95	97	[91]	106	107	106	108	105	104	100	102	101	98	106	105	101	98	3.5	
Soil type (about 50% of trials are medium soils)																							
Light soils (8.3 t/ha)	101	100	98	96	96	95	92	108	105	105	106	105	103	103	102	101	97	108	103	101	99	3.3	
Heavy soils (8.7 t/ha)	103	104	100	95	95	95	92	108	110	110	106	106	103	104	104	102	99	109	106	101	99	5.8	
Agronomic characteristics																							
Lodging % without PGR	9	3	5	15	21	2	4	5	3	20	12	6	4	4	1	1	2	8	6	6	10	-	
Lodging % with PGR	6	2	2	8	13	1	2	1	4	6	5	8	1	3	1	0	1	6	1	4	3	-	
Malting quality																							
Hot water extract (l deg/kg)	308.9	308.4	306.5	311.9	306.2	307.8	305.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8	

[ ] = limited data

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

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

### Key to Breeder and UK contact codes:

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

Lim = Limagrain UK ([www.limagrain.co.uk](http://www.limagrain.co.uk))

SCP = Syngenta Crop Protection ([www.syngenta.co.uk](http://www.syngenta.co.uk))

Sej = Sejet, Denmark

Sen = Senova ([www.senova.uk.com](http://www.senova.uk.com))

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

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