

# HGCA Recommended List® Winter barley 2015/16

## MARKET OPTIONS AND GRAIN QUALITY

	C*		C		NEW		C		*		C		NEW		C*		*			
	Talisman	SY Venture	Flagon	Cassata	Pearl	KWS Infinity	KWS Glacier	KWS Tower	Retriever	Cavaller	California	KWS Cassia	Matros	Florentine	Saffron	Volume \$	Daxor	KWS Meridian	Escadre	Average LSD (5%)
<b>End-use group</b>	Two-row malting					Two-row feed					Six-row feed									
Scope of recommendation	UK	UK	UK	Sp	UK	UK	UK	UK	UK	N	W	UK	E	UK	UK	UK	UK	UK	N	
<b>Fungicide-treated grain yield (% treated controls)</b>																				
United Kingdom (8.9 t/ha)	99	98	95	94	91	105	104	104	102	102	102	101	101	99	97	107	105	103	99	3.0
East region (9.0 t/ha)	100	99	95	95	91	106	106	104	102	103	102	101	102	100	98	107	105	102	97	3.8
North region (8.4 t/ha)	99	95	93	93	89	[105]	104	105	104	104	100	102	100	97	94	107	[108]	105	100	4.1
West region (9.1 t/ha)	96	98	94	93	91	103	103	103	100	98	101	101	98	100	97	107	105	105	100	3.9
<b>Untreated grain yield (% treated control)</b>																				
United Kingdom (8.9 t/ha)	82	77	81	77	76	82	84	83	77	77	85	85	89	81	80	86	88	90	80	5.3
<b>Main market options</b>																				
IBD malting approval for brewing use	P	F	F	F	F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Grain quality</b>																				
Specific weight (kg/hl)	67.9	70.2	70.1	69.0	71.0	68.4	69.9	68.0	66.6	70.2	69.3	71.3	67.9	68.6	70.6	68.7	66.0	66.1	70.5	0.7
Screenings % through 2.25 mm	3.5	2.5	2.1	1.7	1.5	2.7	1.8	1.3	-	2.5	[1.4]	1.5	2.5	2.2	1.8	4.7	2.1	1.9	2.2	1.1
Screenings % through 2.5 mm	9.0	6.2	5.2	4.1	3.4	6.6	4.7	3.5	-	6.1	[3.4]	3.5	5.9	6.4	4.7	13.1	5.9	4.4	6.5	2.6
Nitrogen content (%)	1.63	1.68	1.66	1.66	1.68	-	-	-	-	-	-	-	-	-	-	-	[1.70]	-	-	0.17
<b>Status in RL system</b>																				
Year first listed	13	12	05	07	99	15	13	14	07	14	13	10	13	11	05	09	15	12	11	
RL Status	-	-	*	-	-	P1	-	P2	-	P2	-	-	-	-	*	-	P1	*	*	

	Perseus	Findora
<b>Two-row feed</b>		
Not added to Recommended List		
	103	99
	103	98
	[106]	[103]
	101	[98]
	78	80
	-	-
	70.1	67.9
	2.9	2.5
	7.7	6.8
	-	-
	-	-
	-	-

Varieties no longer listed: Archer, Sequel, Tetris and Winsome

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

\$ = Volume is a hybrid variety

UK = recommended for the UK

E = recommended for the East region

W = recommended for the West region

N = recommended for the North region

[ ] = limited data

F = full IBD approval

P = provisional IBD approval

C = yield control (for current table)

P1 = first year of recommendation

P2 = second year of recommendation

\* = variety no longer in trials

LSD = least significant difference

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

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# HGCA Recommended List<sup>®</sup> Winter barley 2015/16

## YIELD, AGRONOMY AND DISEASE RESISTANCE



	C*		C		NEW		C		*		C		NEW		C*		*			
	Talisman	SY Venture	Flagon	Cassata	Pearl	KWS Infinity	KWS Glacier	KWS Tower	Retriever	Cavallier	California	KWS Cassia	Matros	Florentine	Saffron	Volume \$	Daxor	KWS Meridian	Escadre	Average LSD (5%)
<b>End-use group</b>	Two-row malting					Two-row feed					Six-row feed									
Scope of recommendation	UK	UK	UK	Sp	UK	UK	UK	UK	UK	N	W	UK	E	UK	UK	UK	UK	UK	N	
<b>Fungicide-treated grain yield (% treated controls)</b>																				
United Kingdom (8.9 t/ha)	99	98	95	94	91	105	104	104	102	102	102	101	101	99	97	107	105	103	99	3.0
East region (9.0 t/ha)	100	99	95	95	91	106	106	104	102	103	102	101	102	100	98	107	105	102	97	3.8
North region (8.4 t/ha)	99	95	93	93	89	[105]	104	105	104	104	100	102	100	97	94	107	[108]	105	100	4.1
West region (9.1 t/ha)	96	98	94	93	91	103	103	103	100	98	101	101	98	100	97	107	105	105	100	3.9
<b>Untreated grain yield (% treated control)</b>																				
United Kingdom (8.9 t/ha)	82	77	81	77	76	82	84	83	77	77	85	85	89	81	80	86	88	90	80	5.3
<b>Agronomic features</b>																				
Resistance to lodging	6	7	5	8	7	7	6	7	6	6	8	7	7	8	8	7	8	7	7	-
Straw height (cm)	93	85	98	89	98	87	82	89	85	83	90	88	95	87	87	100	92	103	96	2.9
Ripening (+/-Cassata, -ve = earlier)	-1	-1	-2	0	0	-1	-1	-1	-1	-2	-1	-1	0	-2	-1	-2	-1	-2	-2	1.0
Winter hardiness #	[6]	6	5	6	5	-	[6]	[6]	6	-	6	5	6	6	5	6	-	6	6	-
<b>Disease resistance</b>																				
Mildew	6	6	6	4	6	3	3	5	5	5	6	4	7	6	3	5	4	8	4	1.8
Yellow rust	[7]	[6]	7	2	6	-	[7]	[7]	8	[9]	[6]	5	[5]	7	7	6	-	[6]	7	2.7
Brown rust	6	5	7	6	6	6	7	6	6	6	5	7	7	6	6	6	6	7	5	0.9
Rhynchosporium	6	4	6	7	5	6	5	5	4	5	5	4	7	6	4	7	6	6	7	1.4
Net blotch	5	5	4	3	5	5	6	4	5	5	6	6	5	6	7	6	5	7	6	2.1
BaYMV	R	R	-	R	-	R	R	R	R	R	R	R	-	R	-	R	R	R	R	-

	Perseus	Findora
<b>Two-row feed</b>		
Not added to Recommended List		
	103	99
	103	98
	[106]	[103]
	101	[98]
	78	80
	6	8
	84	78
	-3	-2
	-	-
	5	4
	-	-
	6	6
	3	5
	-	6
	R	R

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

Sp = 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

W = recommended for the West region

Comparisons of variety performance across regions are not valid

E = recommended for the East region

N = recommended for the North region

\* = variety no longer in trials

LSD = least significant difference

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## SUPPLEMENTARY DATA

	C*		C		NEW			C			*		C		NEW		C*		*				
	Talisman	SY Venture	Flagon	Cassata	Pearl	KWS Infinity	KWS Glacier	KWS Tower	Retriever	Cavalier	California	KWS Cassia	Matros	Florentine	Saffron	Volume \$	Daxor	KWS Meridian	Escadre	Average LSD (5%)	Perseus	Findora	
<b>End-use group</b>	Two-row malting					Two-row feed									Six-row feed							Two-row feed	
<b>Scope of recommendation</b>	UK	UK	UK	Sp	UK	UK	UK	UK	UK	N	W	UK	E	UK	UK	UK	UK	UK	UK	N			
<b>Breeder/ UK contact</b>																							
Breeder	Sen	SyP	SyP	Lim	Lim	KWS	KWS	KWS	Sej	Lim	Lim	KWS	Sej	Sen	KWS	SyP	KWS	KWS	KWS		Lim	Sej	
UK contact	Sen	Syn	Syn	Lim	Lim	KWS	KWS	KWS	Lim	Lim	Lim	KWS	Lim	Sen	KWS	Syn	KWS	KWS	KWS		Lim	SU	
<b>Annual treated yield (% control)</b>																							
2010 treated yield (9.3 t/ha)	102	98	97	95	90	-	106	107	104	-	101	101	102	99	97	106	-	102	101	3.4	-	-	
2011 treated yield (8.5 t/ha)	103	97	92	92	88	-	103	104	104	109	101	102	104	101	96	108	-	107	97	4.3	-	-	
2012 treated yield (8.5 t/ha)	95	98	94	94	93	105	105	104	99	98	103	103	100	99	98	108	103	101	99	4.0	102	99	
2013 treated yield (8.5 t/ha)	100	100	93	96	[90]	106	106	105	106	104	101	103	99	100	97	105	107	103	99	3.5	107	101	
2014 treated yield (9.6 t/ha)	97	96	97	93	93	102	103	101	96	97	101	99	98	98	97	106	104	105	98	3.2	100	96	
<b>Soil type (about 50% of trials are medium soils)</b>																							
Light soils (8.4 t/ha)	101	98	95	94	92	106	104	106	104	104	101	101	101	99	96	107	105	103	100	3.3	105	101	
Heavy soils (9.3 t/ha)	100	101	93	95	91	106	106	105	101	101	103	101	100	100	98	107	104	104	97	5.4	104	94	
<b>Agronomic characteristics</b>																							
Lodging % without PGR	8	2	15	1	4	5	7	4	7	13	1	3	5	0	1	5	1	3	3	-	7	2	
Lodging % with PGR	4	1	9	0	1	1	3	1	3	3	1	0	2	0	0	3	0	0	2	-	4	0	
<b>Malting quality</b>																							
Hot water extract (l deg/kg)	308.5	308.4	305.5	305.7	305.3	-	-	-	-	-	-	-	-	-	-	-	[286.8]	-	-	2.2	-	-	

[ ] = limited data

\* = variety no longer in trials

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

LSD = least significant difference

Average LSD (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))

Sej = Sejet, Denmark

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

SU = Saaten Union UK ([www.saaten-union.co.uk](http://www.saaten-union.co.uk))

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

SyP = Syngenta Participations AG ([www.syngenta.co.uk](http://www.syngenta.co.uk))

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Two-row feed	
Not added to Recommended List	
Lim	Sej
Lim	SU
-	-
-	-
102	99
107	101
100	96
105	101
104	94
7	2
4	0
-	-