

# HGCA Recommended List<sup>®</sup> spring barley 2012

## MARKET OPTIONS AND GRAIN QUALITY



New New New

End-use group	Malting varieties																Feed varieties		Average LSD (5%)
	Odyssey	Chronicle	Propino	Overture	Shuffle	Quench	Concerto	Moonshine	NFC Tipple	Belgravia	Optic	Oxbridge	Summit	Garner	Waggon	Westminster			
Scope of recommendation	UK	UK	UK	UK	UK	UK	UK	NE	UK	NE	UK	UK	UK	UK	UK	UK			
UK treated yield as % control (7.3 t/ha)	108	106	105	105	104	104	102	101	101	100	95	94	105	105	104	99	2.4		
<b>Main market options</b>																			
IBD malting approval for brewing use	T	T	F	T	P	F	F	P	F	-	F	-	-	-	-	-	-		
IBD malting approval for distilling use	T	T	-	T	P	-	F	P	-	F	F	F	-	-	-	-	-		
IBD malting approval for grain distilling use	T	T	-	T	-	-	-	-	-	F	-	-	-	-	-	-	-		
Overseas malting	-	-	Y	-	-	Y	[Y]	-	Y	-	Y	-	-	-	-	-	-		
<b>Grain quality</b>																			
Specific weight (kg/hl)	67.8	67.5	66.9	67.7	66.9	67.6	68.1	67.1	68.1	68.2	69.7	69.4	67.0	66.1	67.4	70.0	0.6		
Sieving % through 2.25 mm	[1.1]	[1.4]	1.0	[1.2]	1.0	1.5	1.0	1.0	1.3	1.2	1.4	1.0	[1.6]	1.1	-	1.0	0.3		
Sieving % through 2.5 mm	[3.7]	[3.8]	2.7	[3.4]	2.9	4.5	2.8	3.1	3.5	3.7	4.7	2.7	[4.7]	4.1	-	3.0	0.9		
Nitrogen content (%)	1.47	1.47	1.52	1.53	1.54	{1.55}	1.51	1.47	1.48	1.54	1.52	1.51	-	-	-	-	0.05		
<b>Status in RL system</b>																			
Year first listed	12	12	10	12	11	07	09	11	05	08	95	05	11	10	05	05			
RL status	P1	P1	-	P1	P2	C	C	P2	C	-	C	*	P2	-	-	C			

P1, P2 = first and second year of recommendation

\* = variety no longer in trials

Y = suited to that market

F = Full IBD approval

C = yield control

[ ] = limited data

[Y] = may be suited to that market

P = Provisional IBD approval

{ } = Historical data

T = Under test for IBD approval in this segment

Growers are strongly advised to check with their buyer before committing to a malting variety without full IBD approval

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

UK = recommended for the whole of the UK

NE = recommended for the North East region

**Varieties no longer listed:** Forensic, Panther, Publican and Scout

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## YIELD, AGRONOMY AND DISEASE RESISTANCE



New New New

	Odyssey	Chronicle	Propino	Overture	Shuffle	Quench	Concerto	Moonshine	NFC Tipple	Belgravia	Optic	Oxbridge	Summit	Garner	Waggon	Westminster	Average LSD (5%)
End-use group	Malting varieties												Feed varieties				
Scope of recommendation	UK	UK	UK	UK	UK	UK	UK	NE	UK	NE	UK	UK	UK	UK	UK	UK	
<b>Fungicide treated grain yield as % treated control</b>																	
UK with fungicide (7.3 t/ha)	108	106	105	105	104	104	102	101	101	100	95	94	105	105	104	99	2.4
North East region with fungicide (7.2 t/ha)	108	107	105	104	105	104	101	101	101	100	96	94	105	104	106	99	2.2
East region with fungicide (7.1 t/ha)	[108]	[103]	105	[106]	[104]	105	104	[102]	100	101	92	93	[105]	106	102	99	3.5
West region with fungicide (7.9 t/ha)	[109]	[107]	104	[105]	[105]	105	100	[102]	101	101	96	98	[106]	105	104	98	3.0
North West region with fungicide (6.7 t/ha)	-	-	106	-	[105]	103	103	[100]	99	101	94	92	[106]	[108]	105	101	5.4
<b>Untreated grain yield as % treated control in comparable trials</b>																	
UK without fungicide	96	94	94	97	92	92	92	89	89	91	79	83	95	94	92	90	3.3
<b>Agronomic features</b>																	
Resistance to lodging	[6]	[8]	8	[6]	[9]	8	6	[6]	8	7	8	8	[8]	8	8	6	2.2
Straw height (cm)	73	74	76	75	77	71	78	71	69	76	75	73	69	74	73	82	2.1
Ripening (+/- Optic, -ve = earlier)	+1	+1	0	+1	+1	+1	+1	0	0	+1	0	0	+1	0	-1	+2	0.7
Resistance to brackling	8	8	8	8	8	8	8	8	8	8	4	7	9	8	8	7	1.1
<b>Disease resistance</b>																	
Mildew	9	8	8	8	9	9	8	8	7	9	5	7	8	9	9	9	0.9
Yellow rust	7	7	3	6	5	5	7	6	4	7	8	5	5	7	6	7	2.5
Brown rust	5	5	5	5	4	4	6	4	6	6	7	6	4	5	6	6	1.6
<i>Rhynchosporium</i>	7	7	7	7	6	8	4	4	4	8	4	7	7	7	3	8	1.7

[ ] = limited data

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)

Comparisons of variety performance across regions are not valid

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## SUPPLEMENTARY DATA



New New New

	Odyssey	Chronicle	Propino	Overture	Shuffle	Quench	Concerto	Moonshine	NFC Tipple	Belgravia	Optic	Oxbridge	Summit	Garner	Waggon	Westminster	Average LSD (5%)
<b>End-use group</b>	Malting varieties												Feed varieties				
Scope of recommendation	UK	UK	UK	UK	UK	UK	UK	NE	UK	NE	UK	UK	UK	UK	UK	UK	
<b>Breeder/ UK contact</b>																	
Breeder	Lim	Lim	Syn	Lim	Syn	Syn	Lim	RAGT	Syn	Lim	Syn	Lim	Syn	Syn	Syn	Lim	
UK contact	Lim	Lim	Syn	Lim	Syn	Syn	Lim	RAGT	Syn	Lim	Syn	Lim	Syn	Syn	Syn	Lim	
<b>Grain yield as % treated control</b>																	
2007 treated (7.0 t/ha)	-	-	104	-	-	103	103	-	101	100	93	92	-	105	105	101	3.1
2008 treated (7.4 t/ha)	-	-	104	-	103	102	103	100	100	101	94	96	106	103	106	101	3.2
2009 treated (7.4 t/ha)	[106]	[105]	108	[105]	[106]	106	101	[102]	101	99	96	95	[106]	107	105	97	3.4
2010 treated (7.0 t/ha)	[106]	[105]	104	[105]	103	105	102	102	101	102	96	93	104	104	103	95	3.0
2011 treated (6.9 t/ha)	111	107	104	104	106	105	99	100	100	98	97	-	105	106	103	99	2.7
<b>Malting quality</b>																	
Hot water extract (l deg/kg)	313.8	315.1	314.0	315.5	313.0	{313.1}	316.8	313.4	312.2	312.1	312.5	313.8	-	-	-	-	1.4

[ ] = limited data

{ } = historical data

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

### Key to Breeder and UK contact codes

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

RAGT = RAGT Seeds ([www.ragt.co.uk](http://www.ragt.co.uk))

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

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