

# HGCA Recommended List<sup>®</sup> Spring barley 2015

## Market options, yield and grain quality

	RECOMMENDED	NEW	NEW	NEW	NEW	NEW	NEW	C	C	C*	*	C	C	*	NEW	*	*											
	RGT Planet	KWS Irina	Sanette	Olympus	Deveron	Sienna	Vault	Octavia	Odyssey	Propino	Quench	Moonshine	Concerto	NFC Tipple	Belgravia	Optic	Shada	Scholar	Tesla	Hacker	Rhyncostar	Garner	Kelim	Waggon	Westminster	Average LSD (5%)		
End-use group	Malting varieties															Feed varieties												
Scope of recommendation	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	N	UK	UK	N	N	UK	UK	UK	W	UK	UK	UK	UK	UK			
Fungicide-treated grain yield as % treated control																												
United Kingdom (7.1 t/ha)	109	108	107	105	105	104	104	104	102	102	101	99	97	97	96	93	108	108	104	103	103	101	101	100	93	2.6		
East region (7.1 t/ha)	[111]	106	107	[104]	[104]	[103]	[101]	[106]	103	101	101	[99]	99	96	-	91	107	[107]	104	102	102	101	99	98	93	3.3		
West region (7.5 t/ha)	109	107	107	107	106	105	103	100	101	102	101	98	98	97	[98]	92	108	107	105	105	101	102	101	100	94	3.0		
North region (6.8 t/ha)	108	108	108	106	106	104	106	105	102	103	101	99	96	98	96	94	108	109	104	103	106	100	102	101	93	2.3		
Main market options																												
IBD malting approval for brewing use	T	P	P	-	N	T	T	T	F	F	O	N	F	F	N	O	-	-	-	-	-	-	-	-	-	-		
IBD malting approval for distilling use	N	N	N	T	T	T	T	T	F	N	N	F	F	N	F	F	-	-	-	-	-	-	-	-	-	-		
IBD malting approval for grain distilling use	N	N	N	T	-	N	-	N	N	N	N	N	N	N	F	N	-	-	-	-	-	-	-	-	-	-		
Overseas malting	-	[Y]	[Y]	-	-	-	-	-	[Y]	Y	Y	-	[Y]	Y	-	-	-	-	-	-	-	-	-	-	-	-		
Grain quality																												
Specific weight (kg/hl)	67.9	66.2	67.2	67.0	67.9	70.9	67.1	66.7	68.2	67.9	68.4	67.7	68.8	68.5	68.0	70.1	66.0	68.3	66.1	69.8	67.0	66.9	67.9	67.6	70.0	0.8		
Screenings % through 2.25 mm	1.7	1.8	2.1	1.9	2.3	1.8	1.7	1.6	1.4	1.2	1.9	1.4	1.3	1.8	1.7	1.6	[3.6]	2.1	[2.3]	1.7	[2.9]	-	[2.7]	-	1.5	0.4		
Screenings % through 2.5 mm	4.1	4.6	4.7	5.0	6.4	3.7	4.4	3.4	3.6	2.4	4.9	3.5	2.8	4.4	3.9	5.0	[10.2]	6.0	[4.9]	3.6	[6.8]	-	[7.1]	-	3.5	1.3		
Nitrogen content (%)	1.40	1.43	1.45	1.51	1.43	1.42	1.42	1.38	1.44	1.51	1.49	1.45	1.47	1.46	[1.56]	1.50	1.41	[1.42]	1.48	1.48	[1.47]	-	[1.52]	-	-	0.06		
Status in RL system																												
Year first listed	15	14	13	15	15	15	15	15	12	10	07	11	09	05	08	95	14	15	13	14	13	10	13	05	05			
RL status	P1	P2	P2	P1	P1	P1	P1	P1	-	-	*	*	-	-	-	*	P2	P1	-	P2	*	*	-	-	-	-		

**Varieties no longer listed:** Crooner, Glassel, KWS Aurelia, KWS Orphelia, Montoya, Natasia, Overture and Shaloo, Comparisons of variety performance across regions are not valid  
 Growers are strongly advised to check with their buyer before committing to a malting variety without full IBD approval

UK = recommended for the UK  
 N = recommended for the North region  
 W = recommended for the West region

F = full IBD approval  
 N = not approved by IBD for this segment  
 O = no longer approved by IBD  
 P = provisional IBD approval  
 T = under test for IBD approval in this segment

Y = suited to that market  
 [Y] = may be suited to that market  
 [ ] = limited data  
 C = yield control (for current table)  
 \* = variety no longer in trials

P1 = first year of recommendation  
 P2 = second year of recommendation

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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## YIELD, AGRONOMY AND DISEASE RESISTANCE

	RECOMMENDED	NEW	NEW	NEW	NEW	NEW	NEW	C	C	C*	*	C	C	*	NEW	*	*										
	RGT Planet	KWS Irina	Sanette	Olympus	Deveron	Sienna	Vault	Octavia	Odysey	Propino	Quench	Moonshine	Concerto	NFC Tipple	Belgravia	Optic	Shada	Scholar	Tesla	Hacker	Rhyncostar	Garner	Kelim	Waggon	Westminster	Average LSD (5%)	
<b>End-use group</b>	<b>Malting varieties</b>																										
<b>Scope of recommendation</b>	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	N	UK	UK	N	UK	UK	UK	W	UK	UK	UK	UK	UK	UK	UK	
<b>Fungicide-treated grain yield as % treated control</b>																											
United Kingdom (7.1 t/ha)	109	108	107	105	105	104	104	104	102	102	101	99	97	97	96	93	108	108	104	103	103	101	101	100	93	2.6	
East region (7.1 t/ha)	[111]	106	107	[104]	[104]	[103]	[101]	[106]	103	101	101	[99]	99	96	-	91	107	[107]	104	102	102	101	99	98	93	3.3	
West region (7.5 t/ha)	109	107	107	107	106	105	103	100	101	102	101	98	98	97	[98]	92	108	107	105	105	101	102	101	100	94	3.0	
North region (6.8 t/ha)	108	108	108	106	106	104	106	105	102	103	101	99	96	98	96	94	108	109	104	103	106	100	102	101	93	2.3	
<b>Untreated grain yield (as % treated control)</b>																											
United Kingdom (7.1 t/ha)	97	94	92	91	91	93	89	90	89	90	88	87	86	84	85	77	96	94	93	92	89	88	90	87	84	3.1	
<b>Agronomic features</b>																											
Resistance to lodging	7	8	7	7	7	7	7	6	6	7	7	7	6	7	-	7	7	7	6	8	6	8	8	7	7	0.5	
Straw height (cm)	74	70	72	74	70	78	76	73	75	77	72	73	78	70	78	75	69	69	76	75	70	74	79	74	82	1.6	
Ripening (+/- Optic, -ve = earlier)	+1	+1	+2	+2	+2	+2	+2	+1	+2	+1	+1	0	+2	0	+1	0	+2	+1	+1	0	+1	0	+2	0	+1	0.8	
Resistance to brackling	8	9	8	6	7	8	7	6	8	8	8	7	8	8	8	5	8	9	6	8	8	7	9	8	7	0.9	
<b>Disease resistance</b>																											
Mildew	[9]	9	9	[9]	[9]	[9]	[9]	[9]	9	6	8	[9]	9	6	[8]	5	9	[9]	9	9	9	9	8	9	8	1.0	
Yellow rust	[4]	[6]	[7]	[7]	[4]	[6]	[5]	[7]	7	4	5	7	7	5	7	7	[5]	[7]	[6]	[5]	[5]	6	[5]	7	7	1.9	
Brown rust	5	5	4	7	5	5	4	5	4	5	4	4	6	6	6	7	6	5	5	5	4	4	4	5	6	1.8	
Rhynchosporium	5	5	6	6	5	6	5	7	6	6	6	5	4	4	6	3	5	6	7	6	7	7	6	4	7	1.1	
Ramularia	[6]	7	8	[4]	[5]	[5]	[7]	[5]	6	6	6	4	6	4	[6]	5	7	[8]	7	5	4	4	8	8	7	3.1	

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

C = yield control (for current table)

\* = variety no longer in trials

LSD = least significant difference

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UK = recommended for the UK

N = recommended for the North region

W = recommended for the West region

[ ] = limited data

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## SUPPLEMENTARY DATA

	NEW		NEW NEW NEW NEW NEW						C	C	C*	*	C	C	*	NEW							*	*			
	RGT Planet	KWS Irina	Sanette	Olympus	Deveron	Sienna	Vault	Octavia	Odyssey	Propino	Quench	Moonshine	Concerto	NFC Tipple	Belgravia	Optic	Shada	Scholar	Tesla	Hacker	Rhyncostar	Garner	Kelim	Waggon	Westminster	Average LSD (5%)	
<b>End-use group</b>	<b>Malting varieties</b>																										
Scope of recommendation	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	N	UK	UK	N	N	UK	UK	UK	W	UK	UK	UK	UK	UK	UK	
<b>Breeder/ UK contact</b>																											
Breeder	RAGT	KWS	SyP	LimEur	LimEur	LimEur	Syn	LimEur	Lim	SyP	SyP	RAGT	Lim	SyP	Lim	SyP	SyP	Syn	Lim	Sec	Sec	SyP	SyP	SyP	Lim		
UK contact	RAGT	KWS	Syn	Lim	Lim	Lim	Syn	Lim	Lim	Syn	Syn	RAGT	Lim	Syn	Lim	Syn	Syn	Syn	Lim	Agr	Agr	Syn	Syn	Syn	Lim		
<b>Annual treated yield (% control)</b>																											
2010 treated (7.3 t/ha)	-	-	105	-	-	-	-	-	102	101	101	99	99	98	99	93	-	-	104	-	103	100	103	100	92	3.2	
2011 treated (7.3 t/ha)	-	106	106	-	-	-	-	-	107	100	101	97	96	96	95	92	106	-	104	102	103	102	104	99	96	3.2	
2012 treated (6.4 t/ha)	112	109	108	103	107	104	103	104	102	102	99	99	100	97	[93]	92	108	106	105	106	101	101	101	101	[95]	3.2	
2013 treated (7.0 t/ha)	106	105	-	103	104	103	106	103	99	105	102	98	96	98	97	92	109	108	103	102	105	101	102	100	92	3.4	
2014 treated (7.8 t/ha)	110	110	109	109	106	105	104	104	102	102	101	101	97	99	96	-	108	109	105	104	104	102	97	102	92	2.6	
<b>Malting quality</b>																											
Hot water extract (l deg/kg)	315.2	314.7	313.8	311.9	311.8	315.7	313.5	316.9	313.8	313.6	313.4	313.3	316.1	311.9	311.7	312.5	311.6	311.4	313.9	314.2	313.2	-	311.0	-	-	1.8	

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

UK = recommended for the UK  
 N = recommended for the North region  
 W = recommended for the West region  
 [ ] = limited data  
 C = yield control  
 \* = variety no longer in trial

**Key to Breeder and UK contact codes**  
 Agr = Agrii ([www.agrii.co.uk](http://www.agrii.co.uk))  
 KWS = KWS UK ([www.kws-uk.com](http://www.kws-uk.com))  
 Lim = Limagrain UK ([www.limagrain.co.uk](http://www.limagrain.co.uk))  
 LimEur = Limagrain Europe SA

RAGT = RAGT Seeds ([www.ragt.co.uk](http://www.ragt.co.uk))  
 Sec = Secobra, France  
 Syn = Syngenta UK Ltd ([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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