

HGCA Recommended List[®] Spring barley 2014

MARKET OPTIONS AND GRAIN QUALITY

	New		New New New			C	C*		C	C	C*	New														Average LSD (5%)		
	RECOMMENDED																											
	HGCA																											
	KWS Irina	Sanette	Shaloo	KWS Aurelia	Hacker	Odyssey	Propino	Quench	Overture	Glassel	Moonshine	Concerto	NFC Tipple	Belgravia	Optic	Shada	Tesla	Rhyncostar	KWS Orphelia	Crooner	Natasia	Montoya	Kelim	Garner	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	North	UK	UK	North	North	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	
Fungicide treated grain yield (% treated control)																												
UK with fungicide (7.0 t/ha)	109	109	108	107	105	105	104	103	103	103	100	99	99	98	94	110	106	105	105	105	105	104	104	103	102	95	2.5	
East region with fungicide (6.9 t/ha)	[107]	[109]	[105]	[106]	[104]	106	103	104	104	101	[101]	102	99	[101]	93	[108]	106	104	106	101	104	106	104	104	99	95	3.2	
West region with fungicide (7.4 t/ha)	109	[109]	108	107	107	104	105	104	104	103	99	99	99	100	94	111	106	103	105	104	105	105	104	104	102	96	2.9	
North region with fungicide (6.8 t/ha)	109	108	109	109	104	105	105	103	102	103	100	98	100	97	95	110	106	107	105	107	105	104	105	103	103	94	2.2	
Untreated grain yield as % treated control																												
UK without fungicide (7.0 t/ha)	96	97	98	92	96	93	94	92	96	93	89	90	88	89	80	100	97	93	96	96	95	92	95	93	92	88	3.1	
Main market options																												
IBD malting approval for brewing use	T	P	T	T	T	P	F	O	P	N	N	F	F	N	O	-	-	-	-	-	-	-	-	-	-	-	-	
IBD malting approval for distilling use	N	N	N	N	N	F	N	N	P	P	F	F	N	F	F	-	-	-	-	-	-	-	-	-	-	-	-	
IBD malting approval for grain distilling use	N	N	N	N	N	N	N	N	N	N	N	N	N	F	N	-	-	-	-	-	-	-	-	-	-	-	-	
Overseas malting	-	-	-	-	-	[Y]	Y	Y	-	-	-	[Y]	Y	-	Y	-	-	-	-	-	-	-	-	-	-	-	-	
Grain quality																												
Specific weight (kg/hl)	66.3	67.0	68.4	66.3	69.7	68.1	67.7	68.3	68.3	67.0	67.6	68.6	68.4	68.3	70.1	65.8	66.2	66.8	66.4	67.8	66.8	67.7	67.9	66.7	67.6	70.0	0.9	
Screenings % through 2.25 mm	[1.9]	[2.6]	[2.2]	[2.3]	[1.9]	1.4	1.2	2.0	1.8	2.3	1.4	1.4	1.8	1.7	1.7	[3.7]	[2.4]	[3.0]	[1.9]	[4.1]	[1.9]	[1.1]	[2.7]	[1.5]	-	1.5	0.5	
Screenings % through 2.5 mm	[4.9]	[5.3]	[6.5]	[5.7]	[3.9]	3.5	2.4	4.7	3.7	5.0	3.4	2.8	4.1	3.8	4.8	[10.3]	[4.9]	[6.8]	[4.7]	[9.1]	[3.7]	[2.4]	[7.1]	[4.2]	-	3.3	1.4	
Nitrogen content (%)	1.43	1.44	1.49	1.42	1.49	1.42	1.51	1.49	1.48	1.49	1.44	1.46	1.47	1.53	1.50	1.40	1.47	[1.46]	1.44	[1.42]	1.48	1.45	[1.51]	-	-	-	0.05	
Status in RL system																												
Year first listed	14	13	14	14	14	12	10	07	12	13	11	09	05	08	95	14	13	13	13	13	13	13	13	10	05	05		
RL status	P1	P1	P1	P1	P1	-	-	*	-	P2	-	-	-	-	*	P1	P2	P2	P2	P2	P2	P2	P2	-	-	-		

Varieties no longer listed: Chronicle, Shuffle

P1, P2 = first and second year of recommendation

* = variety no longer in trials

C = yield control

[] = limited data

Y = suited to that market

[Y] = may be suited to that market

UK = recommended for the UK

North = recommended for the North 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

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

North = recommended for the North region

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

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YIELD, AGRONOMY AND DISEASE RESISTANCE



	New		New New New			C	C*		C	C	C*	New												Average LSD (5%)				
	KWS Irina	Sanette	Shaloo	KWS Aurelia	Hacker	Odyssey	Propino	Quench	Overture	Glassel	Moonshine	Concerto	NFC Tipple	Belgravia	Optic	Shada	Tesla	Rhyncostar	KWS Orphelia	Crooner	Natasia	Montoya	Kelim	Garner	Waggon	Westminster		
End-use group	Malting varieties														Feed varieties													
Scope of recommendation	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	North	UK	UK	North	North	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	
UK treated yield as % treated control (7.0 t/ha)	109	109	108	107	105	105	104	103	103	103	100	99	99	98	94	110	106	105	105	105	105	104	104	103	102	95	2.5	
Untreated grain yield as % treated control																												
UK without fungicide (7.0 t/ha)	96	97	98	92	96	93	94	92	96	93	89	90	88	89	80	100	97	93	96	96	95	92	95	93	92	88	3.1	
Agronomic features																												
Resistance to lodging	[7]	-	[8]	[7]	[7]	[5]	8	8	[7]	[7]	[8]	6	7	[7]	7	[8]	[6]	[6]	[7]	[7]	[7]	[6]	[8]	8	8	7	1.2	
Straw height (cm)	68	71	75	70	74	73	76	72	75	72	72	77	68	77	74	68	75	70	70	66	71	69	78	74	74	81	1.5	
Ripening (+/- Optic, -ve = earlier)	+1	+2	+1	+1	0	+2	+1	+1	+1	+2	0	+2	0	+1	0	+2	+1	0	0	+1	0	+1	+2	0	0	+1	0.7	
Resistance to brackling	9	8	8	7	8	8	8	8	8	9	8	8	8	8	5	8	6	8	8	9	6	7	9	7	8	7	1.0	
Disease resistance																												
Mildew	8	9	8	8	8	9	8	9	8	9	[8]	8	7	[9]	5	8	9	9	8	8	9	9	9	9	9	9	1.0	
Yellow rust	[5]	[7]	[7]	[3]	[3]	[7]	4	5	[6]	[7]	[7]	7	5	7	7	[4]	[6]	[5]	[7]	[7]	[4]	[4]	[4]	6	6	7	1.4	
Brown rust	5	4	4	6	6	5	6	4	6	5	4	6	6	6	7	7	5	5	4	6	5	4	5	4	5	6	0.9	
Rhynchosporium	4	6	8	3	6	7	7	7	7	4	4	4	4	7	3	5	7	7	6	6	6	6	5	7	3	7	1.7	
Ramularia	[7]	[8]	[3]	[8]	[5]	6	6	5	7	6	5	6	5	7	5	[8]	6	4	5	5	6	6	8	4	7	7	2.0	

[] = limited data

UK = recommended for the UK

North = recommended for the North region

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 (eg high resistance)

Comparisons of variety performance across regions are not valid

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SUPPLEMENTARY DATA

	New		New New New			C	C*		C	C	C*	New												Average LSD (5%)				
	RECOMMENDED																											
	KWS Irina	Sanette	Shaloo	KWS Aurelia	Hacker	Odyssey	Propino	Quench	Overture	Glassel	Moonshine	Concerto	NFC Tipple	Belgravia	Optic	Shada	Tesla	Rhyncostar	KWS Orphelia	Crooner	Natasia	Montoya	Kelim	Garner	Waggon	Westminster		
End-use group	Malting varieties															Feed varieties												
Scope of recommendation	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	North	UK	UK	North	North	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	
Breeder/ UK contact																												
Breeder	KWS	SCP	SCP	KWS	Sec	Lim	SCP	SCP	Lim	SCP	RAGT	Lim	SCP	Lim	SCP	SCP	Lim	Sec	KWS	Sec	Sej	SU	SCP	SCP	SCP	Lim		
UK contact	KWS	Syn	Syn	KWS	Agr	Lim	Syn	Syn	Lim	Syn	RAGT	Lim	Syn	Lim	Syn	Syn	Lim	Agr	KWS	Agr	KWS	SU	Syn	Syn	Syn	Lim		
Grain yield as % treated control																												
2009 treated (7.7 t/ha)	-	-	-	-	-	103	106	103	103	-	99	99	99	97	94	-	-	-	-	-	-	-	-	104	102	95	3.1	
2010 treated (7.1 t/ha)	-	107	-	-	-	103	103	103	102	104	100	100	99	101	95	-	106	105	105	107	102	105	105	102	102	93	3.3	
2011 treated (7.1 t/ha)	109	109	108	111	105	110	103	105	103	103	99	99	99	98	95	109	107	106	106	105	106	104	107	105	102	98	3.2	
2012 treated (6.3 t/ha)	112	111	111	106	109	104	104	101	104	103	101	102	99	[95]	94	110	107	103	106	107	106	104	103	103	103	[97]	3.2	
2013 treated (7.0 t/ha)	107	-	106	107	104	101	107	104	103	101	100	97	100	98	93	110	105	107	104	102	104	105	103	102	102	93	2.7	
Malting quality																												
Hot water extract (l deg/kg)	315.8	314.5	315.2	314.2	315.1	314.3	314.8	314.3	316.5	312.9	313.8	317.0	312.5	312.4	313.1	312.5	314.6	313.8	313.3	311.6	312.1	314.8	311.6	-	-	-	1.6	

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

[] = limited data

UK = recommended for the UK

North = recommended for the North region

Key to Breeder and UK contact codes

Agr = Agrii (www.agrii.co.uk)

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

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

RAGT = RAGT Seeds (www.ragt.co.uk)

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

Sec = Secobra, France

Sej = Sejet, Denmark

SU = Saaten Union UK (www.saaten-union.co.uk)

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

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