

# AHDB Recommended List - Table 9

## Spring barley 2018

Market options, yield and grain quality



	LG Diablo	LG Tomahawk	RGT Planet	Laureate	Chanson ~	KWS Iriana	RGT Asteroid	KWS Sassy	Olympus	Sienna	Propino	Fairing	Concerto	Scholar	Ovation	Hacker	Average LSD (5%)
End-use group	Malting varieties													Feed varieties			
Scope of recommendation	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	Sp	UK	Nr	UK	W	
	NEW	NEW	C			C	NEW				C		C				
<b>Fungicide-treated grain yield (% treated controls)</b>																	
United Kingdom (7.7 t/ha)	106	105	105	104	104	103	103	102	102	102	100	97	94	104	103	100	2.4
East region (7.9 t/ha)	108	106	105	105	104	103	105	101	101	99	98	96	94	104	105	[98]	4.0
West region (7.8 t/ha)	[102]	[100]	105	102	101	102	[102]	100	102	101	99	97	96	102	102	102	3.3
North region (7.4 t/ha)	109	107	104	105	106	104	102	105	103	103	101	96	93	105	104	100	3.0
<b>Main market options</b>																	
MBC malting approval for brewing use	T	-	F	F	P	F	T	N	-	-	F	-	F	-	-	-	
MBC malting approval for malt distilling use	T	T	N	F	-	N	T	F	-	F	N	-	F	-	-	-	
MBC malting approval for grain distilling use	-	-	N	-	-	N	T	-	Po	N	N	Po	N	-	-	-	
<b>Grain quality</b>																	
Specific weight (kg/hl)	67.5	66.3	68.1	66.6	66.2	66.3	68.7	68.6	67.1	70.9	68.7	68.7	69.3	69.0	66.6	70.0	0.6
Screenings (% through 2.25 mm)	[1.4]	[1.7]	1.3	1.3	1.1	1.7	[1.0]	0.9	2.0	1.5	0.8	0.8	1.1	1.8	1.3	1.4	0.4
Screenings (% through 2.5 mm)	[3.3]	[4.2]	3.5	3.2	3.0	4.5	[2.6]	2.2	5.2	3.6	1.9	2.1	2.7	5.8	3.7	3.4	1.0
Nitrogen content (%)	1.37	1.36	1.40	1.42	1.38	1.43	1.40	1.43	1.47	1.42	1.49	1.52	1.45	[1.42]	1.39	1.48	0.06
<b>Status in RL system</b>																	
Year first listed	18	18	15	16	17	14	18	16	15	15	10	16	09	15	16	14	

**Varieties no longer listed:** Belgravia, Dioptric, LG Opera, Octavia, Odyssey and Olympus  
 Growers are strongly advised to check with their buyer before committing to a malting variety without full IBD approval  
 Varieties are presented in order of highest UK treated yield within end-use groups  
 Comparisons of variety performance across regions are not valid

C = yield control (for current table). For this table Odyssey were also yield controls but are no longer listed.  
 UK = recommended for the UK  
 Nr = recommended for the North region  
 W = recommended for the West region  
 Sp = Fairing is suitable for the production of malt for grain distilling

F = full MBC approval  
 N = not approved by MBC for this segment  
 P = provisional MBC approval  
 Po = potential for this segment  
 T = under test for MBC approval in this segment  
 [ ] = limited data  
 ~ Variety lacking a gene for lipoxygenase production

LSD = least significant difference  
 Average LSD (5%): Varieties that are more than one LSD apart are significantly different at the 95% confidence level.

# AHDB Recommended List - Table 8

## Spring barley 2018

### Yield, agronomy and disease resistance



	LG Diablo	LG Tomahawk	RGT Planet	Laureate	Chanson ~	KWS Irina	RGT Asteroid	KWS Sassy	Olympus	Sienna	Propino	Fairing	Concerto	Scholar	Ovation	Hacker	Average LSD (5%)
End-use group	Malting varieties												Feed varieties				
Scope of recommendation	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	Sp	UK	Nr	UK	W	
	NEW	NEW	C			C	NEW				C		C				
<b>Fungicide-treated grain yield (% treated controls)</b>																	
United Kingdom (7.7 t/ha)	106	105	105	104	104	103	103	102	102	102	100	97	94	104	103	100	2.4
East region (7.9 t/ha)	108	106	105	105	104	103	105	101	101	99	98	96	94	104	105	[98]	4.0
West region (7.8 t/ha)	[102]	[100]	105	102	101	102	[102]	100	102	101	99	97	96	102	102	102	3.3
North region (7.4 t/ha)	109	107	104	105	106	104	102	105	103	103	101	96	93	105	104	100	3.0
<b>Untreated grain yield (% treated control)</b>																	
United Kingdom (7.7 t/ha)	98	95	96	96	94	93	97	94	91	93	88	88	85	94	88	91	3.2
<b>Agronomic features</b>																	
Resistance to lodging (no PGR) (1-9)	7	7	7	7	6	8	7	6	7	7	7	7	6	7	7	7	0.4
Straw height (cm)	76	72	75	73	76	71	76	80	75	79	77	74	80	69	73	75	2.7
Ripening (+/-Concerto, -ve = earlier)	+1	+1	0	+1	-1	0	+1	0	+1	+1	-1	-2	0	0	+1	-1	0.8
Resistance to brackling (1-9)	8	7	8	8	7	9	8	6	7	7	8	7	8	9	7	8	0.6
<b>Disease resistance</b>																	
Mildew (1-9)	[9]	[9]	9	8	[8]	8	[9]	9	9	9	6	8	8	9	9	[9]	0.8
Yellow rust (1-9)	[5]	[8]	[5]	[6]	[6]	[6]	[8]	[5]	[7]	[6]	3	[8]	8	[8]	[6]	[6]	3.6
Brown rust (1-9)	5	4	4	5	5	4	5	5	4	6	5	4	5	5	4	5	2.0
Rhynchosporium (1-9)	5	6	6	6	5	5	6	5	6	6	5	7	4	5	6	5	1.2
Ramularia (1-9)	6	6	6	6	6	6	7	6	6	6	6	6	6	7	6	6	0.5

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  
 C = yield control (for current table). For this table Odyssey were also yield controls but are no longer listed.  
 LSD = least significant difference  
 Average LSD (5%): Varieties that are more than one LSD apart are significantly different at the 95% confidence level

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

[ ] = limited data  
 ~ Variety lacking a gene for lipoxygenase production  
 Sp = Fairing is suitable for the production of malt for grain

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## Spring barley 2018

### Supplementary data



	LG Diablo	LG Tomahawk	RGT Planet	Laureate	Chanson ~	KWS Irina	RGT Asteroid	KWS Sassy	Olympus	Sienna	Propino	Fairing	Concerto	Scholar	Ovation	Hacker	Average LSD (5%)
End-use group	Malting varieties													Feed varieties			
Scope of recommendation	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	Sp	UK	Nr	UK	W	
Breeder/UK contact	NEW	NEW	C			C	NEW				C		C				
Breeder	LimEur	LimEur	RAGT	SyP	-	KWS	R2n	KWS	LimEur	LimEur	SyP	SyP	Lim	SyP	LimEur	Sec	
UK contact	Lim	Lim	RAGT	Syn	SU	KWS	RAGT	KWS	Lim	Lim	Syn	Syn	Lim	Syn	Lim	Agr	
<b>Annual treated yield (% control)</b>																	
2013 treated yield (7.3 t/ha)	-	-	104	104	-	103	-	102	101	100	102	95	94	105	104	99	-
2014 treated yield (8.1 t/ha)	-	-	105	[103]	104	105	-	101	104	101	99	98	93	105	104	99	-
2015 treated yield (8.5 t/ha)	106	105	104	105	105	103	102	103	102	100	98	96	94	103	105	99	-
2016 treated yield (7.6 t/ha)	105	104	105	104	102	103	104	102	101	102	100	99	94	103	101	101	-
2017 treated yield (7.2 t/ha)	107	105	104	104	104	102	104	102	102	103	99	96	97	104	102	100	-
<b>Malting quality</b>																	
Hot water extract (l deg/kg)	316.7	313.9	314.9	315.7	314.0	315.2	315.8	316.1	312.3	315.7	313.4	311.2	316.4	311.0	313.1	314.7	1.6
<b>Status in RL system</b>																	
Year first listed	18	18	15	16	17	14	18	16	15	15	10	16	09	15	16	14	
RL Status	P1	P1	-	-	P2	-	P1	-	-	-	-	P2	-	-	-	-	

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

C = yield control (for current table). For this table Odyssey were also yield controls but are no longer listed.

Sp = Fairing is suitable for the production of malt for grain distilling

~ Variety lacking a gene for lipoxygenase production

UK = recommended for the UK

Nr = recommended for the North region

W = recommended for the West region

[ ] = limited data

P1 = first year of recommendation

P2 = second year of recommendation

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

R2n = RAGT, France

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

Sec = Secobra, France ([www.secobra.com](http://www.secobra.com))

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

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))

LSD = least significant difference

Average LSD (5%): Varieties that are more than one LSD apart are significantly different at the 95% confidence level