

AHDB Recommended List

Spring barley 2021

Market options, yield and grain quality



	Skyway	SY Splendor	SY Tungsien	Firefox	Cosmopolitan	LG Diablo	Laureate	RGT Planet	Iconic	Sienna	KWS Sassy	Propino	Fairing	Cadiz	Fairway	Prospect	Average LSD (5%)
End-use group	Malting varieties													Feed varieties			
Scope of recommendation	UK	UK	UK	UK	UK	UK	UK	UK	W	UK	UK	UK	Sp	E&W	UK	UK	
	NEW				C	C	C	C		*		*C		NEW			
Fungicide-treated grain yield (% treated control)																	
United Kingdom (7.5 t/ha)	106	103	103	103	102	102	101	100	99	98	98	95	93	103	103	102	1.9
East region (7.5 t/ha)	106	103	101	102	102	103	102	99	98	96	96	94	92	105	103	104	3.1
West region (7.1 t/ha)	[108]	103	102	102	102	100	102	100	101	98	98	96	95	[106]	102	102	3.5
North region (7.7 t/ha)	103	103	103	103	102	103	100	99	99	99	99	95	92	100	103	102	2.6
Main market options																	
MBC malting approval for brewing use	P	P	P	-	N	F	F	F	N	-	N	O	-	-	-	-	-
MBC malting approval for malt distilling use	-	-	P	P	-	F	F	N	-	O	F	N	-	-	-	-	-
MBC malting approval for grain distilling use	-	-	-	-	-	-	-	N	-	N	-	N	F	-	-	-	-
Grain quality																	
Specific weight (kg/hl)	68.7	67.9	67.4	66.4	66.2	66.9	66.3	67.8	67.1	70.2	68.4	68.1	68.2	67.4	65.6	67.7	0.6
Screenings (% through 2.25 mm)	1.3	1.7	1.9	1.7	1.6	1.6	1.6	1.4	1.8	1.8	1.2	1.0	1.1	1.0	1.5	2.0	0.3
Screenings (% through 2.5 mm)	3.3	4.5	5.0	4.2	3.7	3.9	3.8	3.8	4.6	4.2	2.9	2.2	2.8	2.3	3.8	4.8	0.7
Nitrogen content (%)	1.52	1.51	1.46	1.50	1.48	1.48	1.51	1.51	1.51	-	[1.51]	1.60	-	1.56	-	1.55	0.06
Status in RL system																	
Year first listed	21	20	20	20	19	18	16	15	20	15	16	10	16	21	20	20	

Varieties no longer listed: Concerto and RGT Asteroid.

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

Comparisons of variety performance across regions are not valid.

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

UK = Recommended for the UK

E = Recommended for the East region

W = Recommended for the West region

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

C = Yield control (for current table)

* = Variety no longer under test in RL trials

[] = Limited data

F = Full MBC approval in this segment

N = Not approved by MBC in this segment

O = No longer approved by MBC in this segment

P = Provisional MBC approval in this segment

LSD = Least significant difference

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

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Yield, agronomy and disease resistance



	Skyway	SY Splendor	SY Tungsten	Firefoxx	Cosmopolitan	LG Diablo	Laureate	RGT Planet	Iconic	Sienna	KWS Sassy	Propino	Fairing	Cadiz	Fairway	Prospect	Average LSD (5%)
End-use group	Malting varieties													Feed varieties			
Scope of recommendation	UK	UK	UK	UK	UK	UK	UK	UK	W	UK	UK	UK	Sp	E&W	UK	UK	
	NEW				C	C	C	C		*		*C		NEW			
Fungicide-treated grain yield (% treated control)																	
United Kingdom (7.5 t/ha)	106	103	103	103	102	102	101	100	99	98	98	95	93	103	103	102	1.9
East region (7.5 t/ha)	106	103	101	102	102	103	102	99	98	96	96	94	92	105	103	104	3.1
West region (7.1 t/ha)	[108]	103	102	102	102	100	102	100	101	98	98	96	95	[106]	102	102	3.5
North region (7.7 t/ha)	103	103	103	103	102	103	100	99	99	99	99	95	92	100	103	102	2.6
Untreated grain yield (% treated control)																	
United Kingdom (7.5 t/ha)	96	91	91	92	93	94	93	91	93	90	91	82	84	94	91	94	3.0
Agronomic features																	
Resistance to lodging (no PGR) (1–9)	7	7	7	7	7	7	7	7	7	7	6	7	7	7	7	7	0.5
Straw height (cm)	75	73	73	71	70	72	70	73	76	77	78	75	72	75	71	71	1.6
Ripening (+/-Concerto, -ve = earlier)	+1	+2	+1	+1	+1	+2	+1	0	0	+1	+1	0	-1	+1	0	+1	0.9
Resistance to brackling (1–9)	8	8	8	8	7	8	8	8	8	7	6	8	8	8	8	9	0.9
Disease resistance																	
Mildew (1–9)	9	9	9	9	9	9	9	9	9	9	9	6	8	9	9	9	0.4
Brown rust (1–9)	-	3	4	4	4	5	5	5	5	5	5	5	4	-	-	5	1.3
Rhynchosporium (1–9)	-	[4]	[4]	[5]	6	5	6	5	[6]	5	6	5	6	-	[3]	[6]	3.0

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

C = Yield control (for current table)
 * = Variety no longer under test in RL trials
 PGR = Plant growth regulator

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

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Supplementary data



	Skyway	Sy Splendor	Sy Tungsten	Firefoxx	Cosmopolitan	LG Diablo	Laureate	RGT Planet	Iconic	Sienna	KWS Sassy	Propino	Fairing	Cadiz	Fairway	Prospect	Average LSD (5%)
End-use group	Malting varieties													Feed varieties			
Scope of recommendation	UK	UK	UK	UK	UK	UK	UK	UK	W	UK	UK	UK	Sp	E&W	UK	UK	
	NEW				C	C	C	C		*		*C		NEW			
Breeder/UK contact																	
Breeder	NS	SyP	SyP	Ack	Sej	LimEur	SyP	RAGT	Sec	LimEur	KWS	SyP	SyP	NS	NS	Sej	
UK contact	Agr	Syn	Syn	ElsAck	Sen	Lim	Syn	RAGT	Agr	Lim	KWS	Syn	Syn	Sen	Sen	Sen	
Annual treated yield (% control)																	
2016 (7.8 t/ha)	-	-	-	-	102	102	100	101	-	98	98	96	94	-	-	-	-
2017 (7.4 t/ha)	-	103	102	103	103	103	100	100	100	98	97	95	92	-	102	103	-
2018 (6.8 t/ha)	106	103	103	103	103	102	102	98	100	97	97	95	94	104	103	102	-
2019 (7.8 t/ha)	106	104	102	103	102	102	102	100	98	98	98	94	93	104	103	103	-
2020 (7.4 t/ha)	105	103	103	102	102	102	102	99	99	98	97	95	92	103	102	102	-
Malting quality																	
Hot water extract (l deg/kg)	314.5	314.0	314.7	313.8	313.2	314.1	314.2	313.9	315.5	-	314.8	311.1	[308.2]	312.8	[312.8]	312.8	2.1
Status in RL system																	
Year first listed	21	20	20	20	19	18	16	15	20	15	16	10	16	21	20	20	
RL Status	P1	P2	P2	P2	-	-	-	-	P2	*	-	*	-	P1	P2	P2	

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

UK = Recommended for the UK
 E = Recommended for the East region
 W = Recommended for the West region
 Sp = Specific recommendation. Fairing is suitable for the production of malt for grain distilling
 C = Yield control (for current table)
 [] = Limited data
 P1 = First year of recommendation
 P2 = Second year of recommendation
 * = Variety no longer under test in RL trials

Ack = Ackermann Saatzzucht GmbH (sz-ackermann.de)
 Agr = Agrii (agrii.co.uk)
 ElsAck = Elsoms Ackermann Barley
 KWS = KWS UK (kws-uk.com)
 Lim = Limagrains UK (lgseeds.co.uk)
 LimEur = Limagrains Europe SA (lgseeds.co.uk)
 NS = Nordic Seed, Denmark

RAGT = RAGT Seeds (ragt.co.uk)
 Sec = Secobra, France (secobra.com)
 Sej = Sejet, Denmark (sejet.com)
 Sen = Senova (senova.uk.com)
 Syn = Syngenta UK Ltd (syngenta.co.uk)
 SyP = Syngenta Participations AG (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