

Spring barley 2023

Market options, yield and grain quality

Described	
variety	

AHDB
RECOMMENDED

RECOMMENDED	Florence	SY Tennyson	Skyway	Sun King	Diviner	SY Signet	KWS Curtis	Firefoxx	Laureate	LG Diablo	RGT Planet	KWS Sassy	Fairing	Hurler	Cadiz	Malvern	Prospect	CB Score	Average LSD (
End-use group						Malti	ng varietie	s							Feed v	arieties			
Scope of recommendation	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	Sp	UK	E&W	W	UK	UK Null-Lox	
Variety status	NEW	NEW		NEW	NEW	NEW	NEW		С	С	С			NEW	*	*	*		
Fungicide-treated grain yield (% treated control)																			
United Kingdom (7.5 t/ha)	105	105	105	104	104	104	104	103	103	101	98	97	93	107	103	103	102	101	2.3
East region (7.5 t/ha)	106	107	106	104	104	105	105	103	103	102	99	96	93	108	104	103	103	101	3.3
West region (7.3 t/ha)	[106]	[104]	106	[107]	[104]	[103]	[103]	104	104	101	98	98	94	[108]	106	105	102	101	3.8
North region (7.8 t/ha)	104	106	102	103	105	105	103	103	102	102	99	98	92	106	100	102	101	101	2.8
Main market options																			
MBC malting approval for brewing use	N	Р	F	Р	N	Р	Т	-	F	F	F	N	-	-	-	-	-	-	-
MBC malting approval for malt distilling use	-	Р	-	-	Р	-	Т	F	F	F	N	F	-	-	-	-	-	-	-
MBC malting approval for grain distilling use	-	-	-	-	-	-	-	-	-	-	N	-	F	-	-	-	-	-	-
Grain quality																			
Specific weight (kg/hl)	68.2	66.6	69.4	67.7	67.7	67.4	67.5	67.1	67.2	67.8	68.8	69.1	68.9	66.2	68.3	66.9	68.5	67.8	0.6
Screenings (% through 2.25 mm)	1.0	1.3	0.9	1.1	1.6	1.4	1.9	1.4	1.2	1.3	1.2	0.9	1.0	1.5	0.8	1.3	1.7	1.3	0.3
Screenings (% through 2.5 mm)	2.7	2.6	2.4	2.5	4.0	3.1	5.2	3.6	3.0	3.2	3.2	2.2	2.6	4.4	1.7	4.2	4.1	3.5	0.9
Nitrogen content (%)	1.51	1.47	1.54	1.51	1.51	1.48	1.50	1.51	1.52	1.49	1.54	-	-	[1.51]	1.57	[1.52]	1.56	[1.53]	0.08
Nitrogen content (%) Status in RL system	1.51	1.47	1.54	1.51	1.51	1.48	1.50	1.51	1.52	1.49	1.54	-	-	[1.51]	1.57	[1.52]	1.56	[1.53]	0.08

Varieties no longer listed: Fairway, Jensen, Spinner, SY Bronte, SY Tungsten and SY Splendor.

Null-Lox spring barley varieties are described. Data is provided for information only and does not constitute a recommendation.

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 this table, Propino and SY Tungsten were also control varieties but are no longer listed

* = Variety no longer under test in RL trials

~ = Variety lacking a gene for lipogenase production (a Null-Lox variety) MBC = Malting Barley Committee [] = Limited data

F = Full MBC approval in this segment

N = Not approved by MBC in this segment

P = Provisional MBC approval in this segment

T = Under test for 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



Spring barley 2023

Yield, agronomy and disease resistance

AHDB	
COMMENDED	

RECOMMENDED	orence	/ Tennyson	Skyway	Sun King	viner	Y Signet	KWS Curtis	efoxx	ureate	G Diablo	RGT Planet	KWS Sassy	airing	urler	Cadiz	Valvern	ospect	3 Score ~	Average LSD (5%)
	표	Ś	κ̈́	Su	اجّ	က်		<u>.</u>	La	D LO	R(₹	В	Ĭ			ج	CB	Ą
End-use group	11115	1.11.6		1.11.6	11116		ng varietie		1.11.6	1.11.6	1116			1116		arieties	1.11.6		
Scope of recommendation	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	Sp	UK	E&W	W	UK	UK Null-Lox	
Variety status	NEW	NEW		NEW	NEW	NEW	NEW		С	С	С			NEW	*	*	*		
Fungicide-treated grain yield (% treated control)																			_
United Kingdom (7.5 t/ha)	105	105	105	104	104	104	104	103	103	101	98	97	93	107	103	103	102	101	2.3
East region (7.5 t/ha)	106	107	106	104	104	105	105	103	103	102	99	96	93	108	104	103	103	101	3.3
West region (7.3 t/ha)	[106]	[104]	106	[107]	[104]	[103]	[103]	104	104	101	98	98	94	[108]	106	105	102	101	3.8
North region (7.8 t/ha)	104	106	102	103	105	105	103	103	102	102	99	98	92	106	100	102	101	101	2.8
Untreated grain yield (% treated control)																			
United Kingdom (7.5 t/ha)	95	92	94	96	92	95	93	92	94	92	89	89	84	94	92	94	92	92	2.9
Agronomic features																			
Resistance to lodging without PGR (1–9)	[8]	[7]	7	[8]	[8]	[8]	[8]	7	6	7	7	6	8	[9]	7	8	7	7	1.1
Straw length without PGR (cm)	[69]	[69]	75	[72]	[67]	[71]	[69]	69	70	71	73	78	70	[65]	75	71	70	71	2.0
Ripening (days +/- RGT Planet)	0	+1	+1	+1	+1	+1	+1	0	+1	+2	0	+1	-2	+1	0	+1	+1	+1	8.0
Resistance to brackling (1–9)	9	7	7	9	9	8	9	8	8	8	8	6	8	9	8	8	9	8	0.8
Disease resistance																			
Mildew (1–9)	8	9	9	9	9	9	9	9	9	9	8	9	8	8	9	9	9	9	0.7
Brown rust (1–9)	5	4	4	6	5	5	4	4	5	5	5	5	5	4	4	5	5	5	1.1
Rhynchosporium (1–9) – see note below	[6]	[3]	7	[4]	[3]	[5]	[7]	5	7	6	6	6	8	[6]	[5]	3	7	7	2.6

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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C = Yield control. For this table, Propino and SY Tungsten were also control varieties but are no longer listed

* = Variety no longer under test in RL trials

~ = Variety lacking a gene for lipogenase production (a Null-Lox variety)

PGR = Plant growth regulator [] = Limited data

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

Described

variety



Spring barley 2023

Supplementary data

Supplementary data																		variety	
AHDB RECOMMENDED End-use group	Florence	SY Tennyson	Skyway	Sun King	Diviner	SY Signet	S W W Curtis ng varietie	Firefoxx	Laureate	LG Diablo	RGT Planet	KWS Sassy	Fairing	Hurler	Cadiz Peed v	Walvern arieties	Prospect	CB Score ~	Average LSD (5%)
Scope of recommendation	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	Sp	UK	E&W	W	UK	UK Null-Lox	
Variety status	NEW	NEW		NEW	NEW	NEW	NEW		С	C	C	• • • • • • • • • • • • • • • • • • • •	96	NEW	*	*	*	01111a 2011	
Breeder/UK contact																			
Breeder	Bre	SyP	NS	Sec	Sec	SyP	KWS	Ack	SyP	LimEur	RAGT	KWS	SyP	Sec	NS	NS	Sej	Cal	
UK contact	Sen	Syn	Agr	Agr	Agr	Syn	KWS	ElsAck	Syn	Lim	RAGT	KWS	Syn	Agr	Sen	AgV	Sen	ADM	
Annual treated yield (% control)																			
2018 (6.8 t/ha)	-	-	105	-	-	-	-	104	103	102	98	97	94	-	104	-	102	-	-
2019 (7.8 t/ha)	-	-	105	-	-	-	-	103	103	102	100	98	93	-	104	103	103	100	-
2020 (7.5 t/ha)	103	105	105	103	104	104	104	102	102	102	98	97	91	106	102	103	102	100	-
2021 (7.8 t/ha)	107	106	104	104	105	105	105	105	104	101	97	97	93	108	104	103	103	102	-
2022 (7.7 t/ha)	104	104	105	105	104	104	102	103	104	100	99	98	94	107	103	102	100	101	-
Malting quality																			
Hot water extract (I deg/kg)	313.8	315.9	314.0	312.4	314.6	314.9	312.0	313.3	313.8	313.9	313.2	-	-	311.9	312.5	308.1	312.2	312.1	2.3
Status in RL system																			
Year first listed	23	23	21	23	23	23	23	20	16	18	15	16	16	23	21	22	20	22	
RL status	P1	P1	-	P1	P1	P1	P1	-	-	-	-	-	-	P1	*	*	*	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

Ack = Ackermann Saatzucht GmbH (**sz-ackermann.de**) ADM = ADM Agriculture Ltd (**adm-agri.co.uk**)

Agr = Agrii (agrii.co.uk)

AgV = Agrovista UK Ltd (agrovista.co.uk)

Bre = Saatzucht Josef Breun, Germany (breun.de)

C = Yield control. For this table, Propino and SY Tungsten were also control varieties but are no longer listed

* = Variety no longer under test in RL trials

Cal = Carlsberg Research Laboratory
ElsAck = Elsoms Ackermann Barley (elsoms.com)
KWS = KWS UK (kws-uk.com)
Lim = Limagrain UK (lgseeds.co.uk)

~ = Variety lacking a gene for lipogenase production (a Null-Lox variety)

[] = Limited data P1 = First year of recommendation

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 95% confidence level

Described

LimEur = Limagrain Europe SA (**Igseeds.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)

Rhynchosporium ratings

Low disease levels in trials in 2020 and 2021 limited data and resulted in low confidence in the rhynchosporium ratings for newer varieties (indicated by bracketed ratings), with some recommended with very low ratings. Sufficient data from 2022 has enabled more robust ratings to be calculated, producing ratings more in line with those expected for recommended varieties.