Danish Preferred

KWS Maltbyg

KWS CURTIS

KWS Cereals | 10/3- 2023

SEEDING
THE FUTURE
SINCE 1856

KWS CURTIS
Status

KWS CURTIS

- Dansk EU registrering 2023
- UK registrering 2022, optaget på UK “Recommended List 2022”

- Danish Preferred
  - Stress-test, February 2023

- Afprøvet 2 års dansk værdiafprøvning
- Afprøvet i Landsforsøg

KWS CURTIS
Udbytte og kvalitet

	Landsforsøg Relativt udbytte			Råprotein (%)		Sortering >2,5 mm (%)		Sortering >2,8 mm (%)		Rumvægt (kg/hl)	
	Mean 21-22 (n=17)	2022 (n=7)	2021 (n=10)	2022	2021	2022	2021	2022	2021	2022	2021
KWS CURTIS	103 (n=12)	105	101 (n=5)*	9,7	10,3*	96	96*	87	83*	68,3	65,0*
Laureate	104	103	104	9,7	10,4	97	98	90	91	68,0	66,8
RGT Planet	99	100	98	9,8	10,3	97	97	91	86	69,9	67,8
Blanding	100	100	100 (n=5)*	9,8	10,5	95	96	83	79	68,8	65,7

*VCU (n=5) i 2021

KWS CURTIS
Sygdomme

	Fungicide respons (hkg/ha)			Nematod resistens		Bygrust (%)		Skoldplet (%)		Bladplet (%)		Ramularia (%)	
	2022	2021		Race I	Race II	2022	2021	2022	2021	2022	2021	2022	2021
KWS CURTIS	8,9	-		S	S	19	8,0	1,6	3,5	0	0	6,0	3,8
Laureate	6,1	8,8		S	S	16	5,0	3,0	2,6	0,2	0,09	6,0	8,0
RGT Planet	7,0	9,8		R	R	20	12	13	2,2	16	18	8,0	13
Blanding	5,2	7,8		-	-	24	11	1,0	3,7	1,2	6,0	13	14

KWS CURTIS
Dyrkningsegenskaber

	Modning (dato)		Strålængde (cm)		Lejesæd, OBS (0 - 10)		Aksnedknækning (0 - 10)		Stånedknækning (0 - 10)	
	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021
KWS CURTIS	2/8	26/7	69	66	0	0	0,8	0,7	0,8	1,8
Laureate	29/7	26/7	66	70	0	0	1,0	0,7	0,8	3,5
RGT Planet	29/7	26/7	74	70	0	0	0,8	0,3	2,2	2,8
Blanding	30/7	25/7	69	66	0,8	0,8	2,8	0,3	2,6	2,2

AHDB RECOMMENDEDLISTS

Spring barley 2023

Market options, yield and grain quality

AHDB RECOMMENDED

	Florence	SY Tennyson	Skyway	Sun King	Diviner	SY Signet	KWS Curtis	Firefoxx	Laureate	LG Diablo	RGT Planet	KWS Sassy	Fairing
End-use group	Malting varieties												
Scope of recommendation	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	Sp
Variety status	NEW	NEW		NEW	NEW	NEW	NEW		C	C	C		
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
East region (7.5 t/ha)	106	107	106	104	104	105	105	103	103	102	99	96	93
West region (7.3 t/ha)	[106]	[104]	106	[107]	[104]	[103]	[103]	104	104	101	98	98	94
North region (7.8 t/ha)	104	106	102	103	105	105	103	103	102	102	99	98	92
Main market options													
MBC malting approval for brewing use	T	T	P	T	N	T	T	-	F	F	F	N	-
MBC malting approval for malt distilling use	-	T	-	-	T	-	T	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
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
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
Nitrogen content (%)	1.51	1.47	1.54	1.51	1.51	1.48	1.50	1.51	1.52	1.49	1.54	-	-
Status in RL system													
Year first listed	23	23	21	23	23	23	23	20	16	18	15	16	16

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

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

KWS CURTUS
Stress test

Index Result

	Laureate_45	Laureate_43	Laureate_41	RGT Planet_45	RGT Planet_43	RGT Planet_41	KWS Curtis_45	KWS Curtis_43	KWS Curtis_41
Extract	3	3	4	1	3	5	3	2	3
Friability	1	1	3	1	2	4	1	1	3
Beta-Glucan	1	2	3	1	2	3	1	2	2
Viscosity	1	1	3	1	2	4	1	1	3
FAN	1	3	4	2	3	3	3	4	5
Soluble N	2	3	4	1	2	3	3	4	5
Kolback	2	3	4	1	2	4	2	4	5
FAN dev.*	3%	-1%	1%	-1%	-2%	10%	-9%	-10%	-17%
Soluble N dev.*	1%	0%	1%	4%	5%	6%	-7%	-8%	-13%
Kolback dev.*	-1%	-1%	1%	1%	3%	3%	-2%	-6%	-12%
Proteolyse compared to modification	As expected			3 % higher			9 % lower		
Alpha-Amylase	1	2	3	2	2	3	3	3	4
Beta-Amylase	1	2	3	2	2	1	1	2	3
Limit Dextrinase	2	3	4	3	3	3	2	3	4
Attenuation	3	4	5	2	4	5	1	3	4
Turbidity	1	1	2	1	1	1	1	1	1
Index **	12	14	20	8	15	21	10	11	17
Index mean ***	29			26			24		

Explanation to the color indications: The best of the standards is for each parameter and steeping degree assigned
Red is used for values being two points higher than best standard, the higher value the more intense red.

* = deviation from the calculated value (calculated from the degree of modification).

** = 2*Extract + Mean(Friability,Beta-glucan,Viscosity) + Mean(Alpha, Beta-amylase, Limit Dextrinase) + Attenuation

*** = Index_45 + Mean(Index_43,Index_41)

KWS CURTIS
Ny maltbyg

KWS CURTIS

NEW

Performance

- KWS Curtis er non-GN – til brygning og destillering
- Meget stærkt strå
- Høj sygdom-tolerance – specielt stærk på bladplet og ramularia
- Recommended list 2023 - kvalitet for øl og whiskey I UK

Danish Preferred

KWS Maltbyg

KWS CURTIS

KWS Cereals | 10/3-2023

SEEDING
THE FUTURE
SINCE 1856