



syngenta

# SY SPLENDOR

**Danish Preferred 20 Feb 2020**

Heinrich Maubach

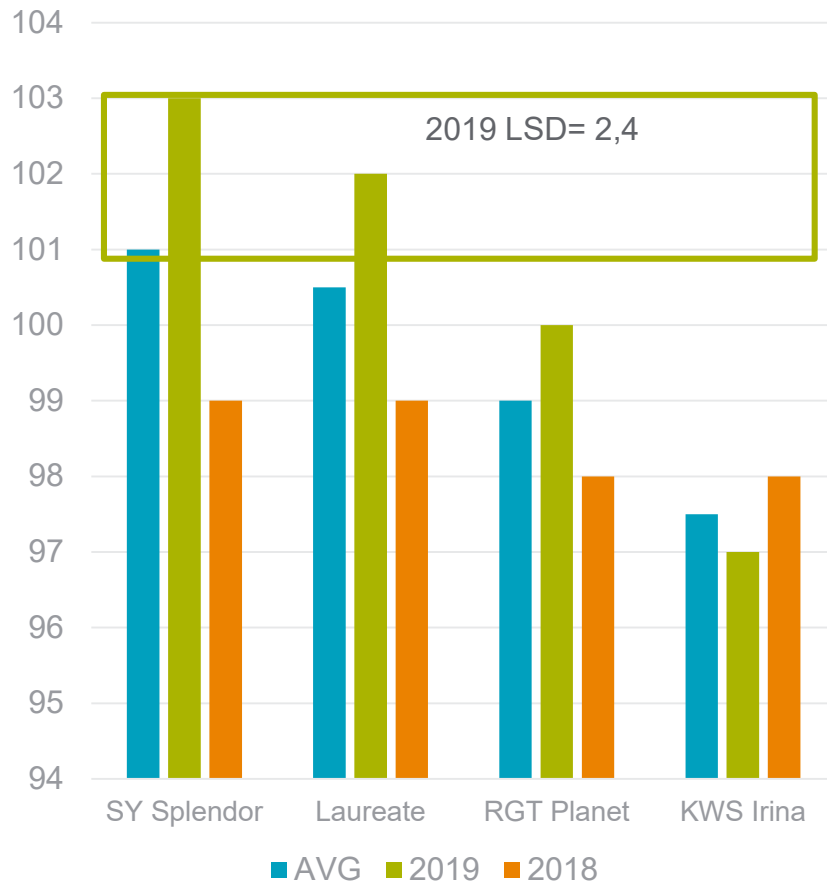
Torben Sørensen

- Octavia/Dioptric
- Non-GN variety with very good brewing potential
- The highest yielding variety on the UK RL
- Very high specific weight
- Robust Agronomics



# DK, Farmers union trials 2018 and 2019

Rel, Yield DK 2018 and 2019



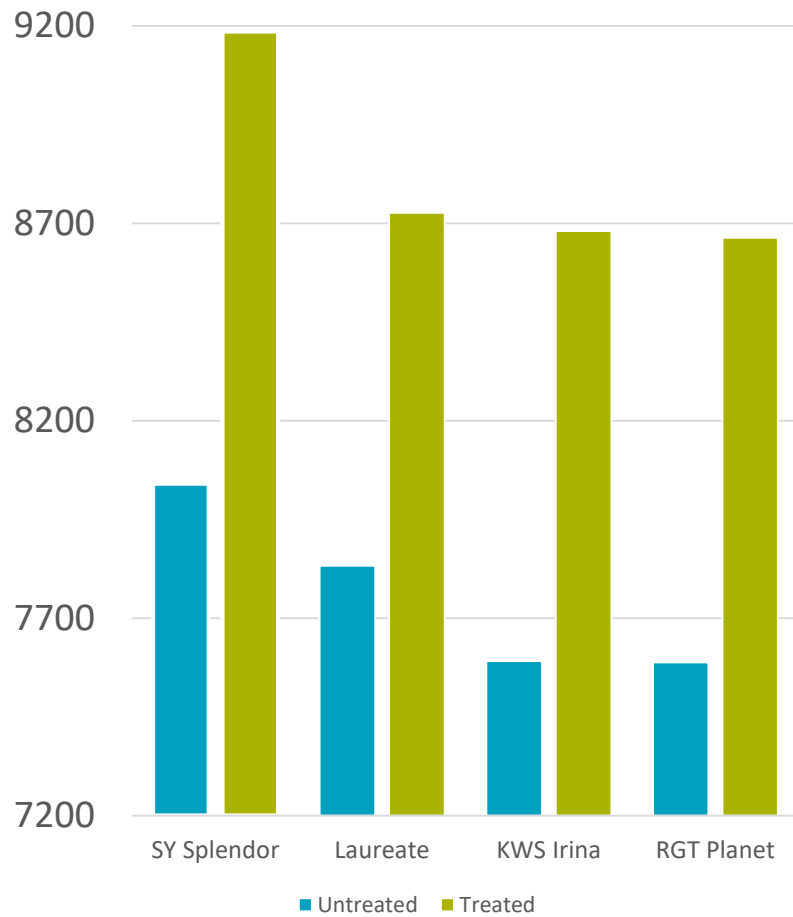
Sp. Weight and Size >2,5 mm DK 2018 and 2019



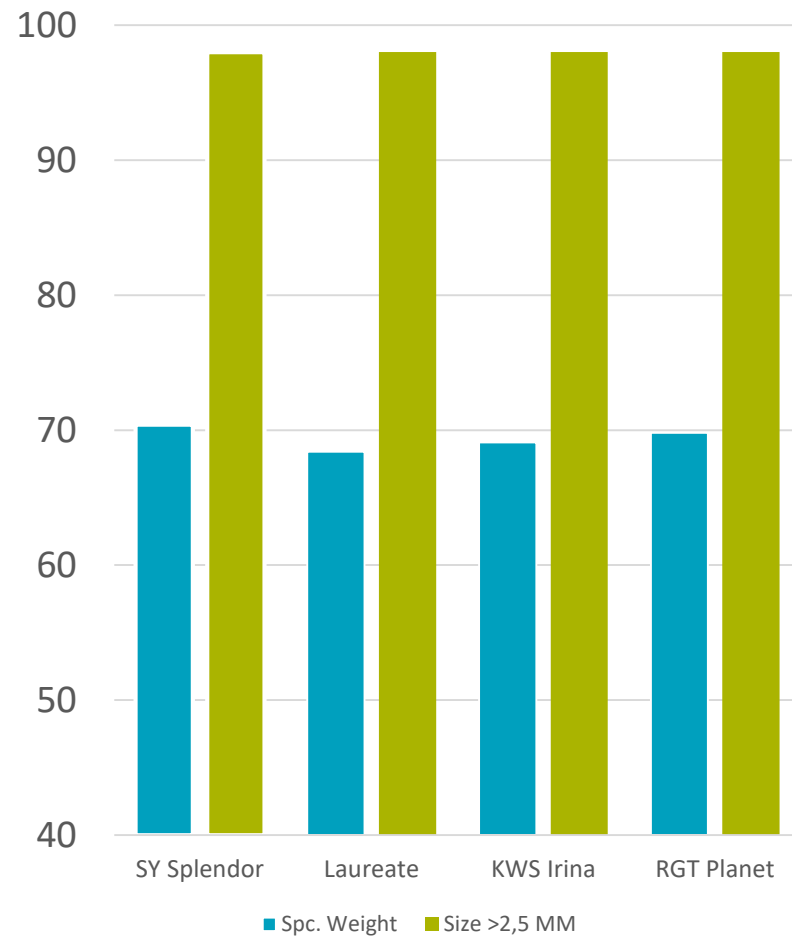
# SE regional trials 2019 (seriesammanställning, SLU)

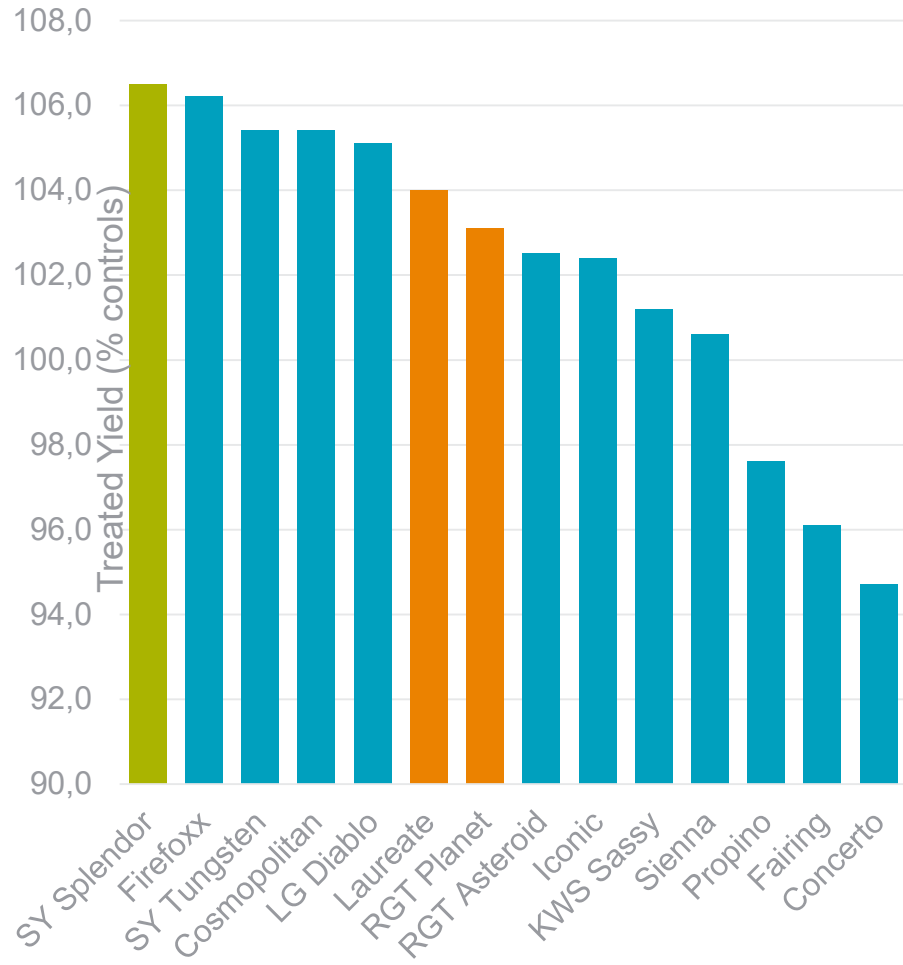
Kg/ha

Yield SE, 2019

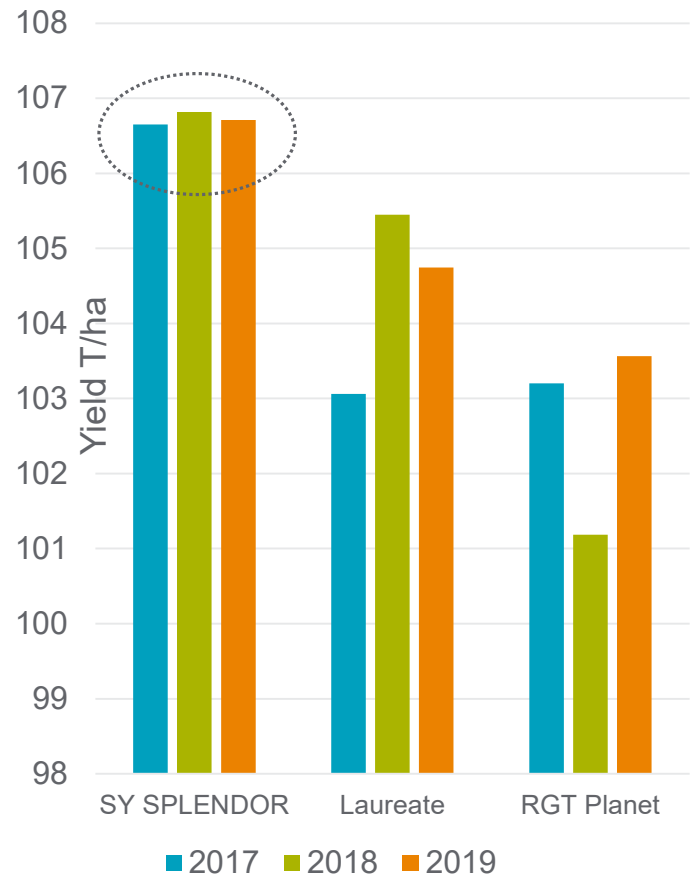


Spc. Weight and Size >2,5 mm SE, 2019





### Yields across 3 years



## SY SPLENDOR Splendid 'til the last drop



The early maturing variety with high yields and very good quality for the brewing market.



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## AHDB Recommended List Spring barley 2020

Market options, yield and grain quality



	SY Splendor	Firefoxx	Cosmopolitan	SY Tungsten	LG Diablo	Laureate	RGT Planet	RGT Asteroid	Iconic	KWS Sassy	Sienna	Propino	Fairing	Concerto
	NEW	NEW		NEW		C	C		NEW			C		C
<b>Breeder/UK contact</b>														
Breeder	Syn	Ack	Sej	LimEur	SyP	RAGT	R2n	Sec	KWS	LimEur	SyP	SyP	Lim	
UK contact	Syn	ElsAck	Sen	Syn	Lim	Syn	RAGT	RAGT	Agr	KWS	Lim	Syn	Syn	Lim
<b>Annual treated yield (% control)</b>														
2015 (8.6 t/ha)	-	-	-	105	104	103	101	-	101	99	97	95	94	
2016 (7.6 t/ha)	-	-	105	104	103	104	103	-	101	101	99	97	93	
2017 (7.3 t/ha)	107	106	106	105	106	103	103	104	101	101	98	95	96	
2018 (6.6 t/ha)	107	107	107	107	105	105	101	103	103	100	99	98	97	96
2019 (7.6 t/ha)	107	106	105	104	105	105	104	103	100	101	101	96	96	96
<b>Main market options</b>														
MBC malting approval for brewing use	T	-	P	T	P	F	F	P	T	N	-	F	-	F
MBC malting approval for malt distilling use	-	T	-	T	F	F	N	P	-	F	F	N	-	F
MBC malting approval for grain distilling use	-	-	-	-	-	-	N	P	-	-	N	N	F	N
<b>Grain quality</b>														
Specific weight (kg/hl)	68,1	66,4	66,2	67,7	67,1	66,5	67,8	68,3	67,2	68,4	70,4	68,2	68,3	68,8
Nitrogen content (%)	1,47	1,46	1,44	1,43	1,44	1,48	1,50	1,48	1,45	1,50	[1.51]	1,56	1,59	1,52
<b>Malting quality</b>														
Hot water extract (l deg/kg)	315,7	315,4	314,4	316,8	315,5	315,4	315,2	315,0	316,7	315,7	315,7	312,7	310,9	315,9
<b>Status in RL system</b>														
Year first listed	20	20	19	20	18	16	15	18	20	16	15	10	16	09
RL Status	P1	P1	P2	P1	-	-	-	-	P1	-	-	-	-	-

Highest and most consistent yield of all AHDB recommended varieties

Very high spec. weight & excellent hot water extract

# Syngenta internal micro malting data (UK, France, Germany)



	2017	PROTEIN TOT					EXTRACT --JOB					VISCOSITY 65 deg ( IOB )					SOL NITROGEN					FAN				
		STR	SCOT	PICA	AT45	avg 4	STR	SCOT	PICA	AT45	avg 4	STR	SCOT	PICA	AT45	avg 4	STR	SCOT	PICA	AT45	avg 4	STR	SCOT	PICA	AT45	avg 4
Syngenta	Laureate	11.6	8.9	9.9	13.3	10.9	314.4	315.6	315.6	302.3	312.0	1.45	1.50	1.56	1.48	1.50	881	746	812	870	827	189	162	166	177	174
	RGT Planet	12.2	8.4	9.4	12.1	10.5	306.1	319.3	316.1	304.8	311.6	1.47	1.53	1.44	1.43	1.47	859	730	790	854	808	166	158	167	173	166
	SY Splendor	11.4	8.6	9.9	12.6	10.6	309.6	320.5	313.6	305.6	312.3	1.46	1.49	1.44	1.44	1.46	856	701	789	895	810	181	153	161	179	169
		2018	DEDU	FULB	avg 2		DEDU	FULB	avg 2		DEDU	FULB	avg 2													
	Laureate	12.1	12.1	12.1		315.2	306.8	311.0		1.46	1.53	1.50														
	RGT Planet	11.3	12.2	11.7		316.3	303.4	309.8		1.49	1.75	1.62														
	SY Splendor	10.9	11.8	11.3		316.5	307.4	311.9		1.47	1.52	1.50														
		2019	AT45	DEDU	DEBE	STR	avg 4	AT45	DEDU	DEBE	STR	avg 4	AT45	DEDU	DEBE	STR	avg 4	AT45	DEDU	DEBE	STR	MEAN				
	Laureate	11.6	10.6	13.1	10.2	11.4	307.5	312.7	301.2	314.9	309.1	1.42	1.40	1.45	1.43	1.43	783	754	689	664	723	177	213	162	185	184
	RGT Planet	11.3	10.6	11.1	10.2	10.8	309.4	311.1	304.4	313.4	309.6	1.43	1.45	1.55	1.45	1.47	794	707	549	643	673	188	190	135	173	172
	SY Splendor	11.2	10.3	12.0	10.3	10.9	307.2	314.9	306.8	305.6	308.6	1.41	1.42	1.45	1.49	1.44	768	700	634	571	668	173	201	148	141	166
		mean 17/18/19	avg 10				avg 10				avg 10				avg 8				avg 8							
Laureate	11.3				310.6				1.47				775				179									
RGT Planet	10.9				310.4				1.50				741				169									
SY Splendor	10.9				310.8				1.46				739				167									
Tystofte Fonden	2019	avg 3				avg 3				avg 3				avg 3				avg 3								
	RGT Planet	9.4				84.0				1.47				660				121								
	SY Splendor	9.3				84.2				1.46				652				123								

# Summary of stresstest, DK 2019 harvest

LEGEND	Protein content [ % dm ]		Soluble nitrogen VZ65 [ mg/100 g dm ]		Turbidity VZ65 EBC	Wort coulor VZ65 [ EBC ]	Viscosity VZ 65°C (8,6) [ mPa*s ]			Alpha-Amylase activity [ DU/g dm]		Limit of attenuation VZ65 [ % ]		Days	gelatinization temperature [° C]	Total loss	
	Extract, VZ65 [ % dm ]	Kolbach Index VZ65 [ % ]	FAN VZ65 [ mg/100 g dm ]	Friability [ % ]			Beta-Glucan (FIA/VZ 65°C) [ mg/l ]	Beta-Amylase activity [ BU/g dm]	Limit of attenuation VZ65 [ % ]	Limit Dextrinase Activity [PULLG6 U/g dm]							
RGT Planet_45	9.8	83.5	605	38.7	110	1.5	3.0	1.6	85.3	258	42.0	957	85.6	0.11	5.0	63.5	8.0
RGT Planet_43	9.6	82.7	561	36.7	100	2.2	3.0	1.7	81.3	564	43.3	881	84.8	0.11	5.0		6.9
RGT Planet_41	9.9	82.0	506	32.0	86	2.9	2.8	2.0	63.3	765	37.7	889	83.4	0.10	5.0		5.7
KWS Irina_45	10.1	82.6	643	39.7	125	2.2	4.5	1.6	77.7	422	35.7	833	83.9	0.11	5.0	63.4	9.7
KWS Irina_43	10.2	81.8	594	36.3	111	2.3	3.8	1.8	67.3	654	36.3	863	83.9	0.10	5.0		8.1
KWS Irina_41	10.4	81.4	560	34.0	104	2.5	4.1	1.9	60.0	876	31.3	854	83.3	0.09	5.0		6.9
SY Splendor_45	9.4	83.2	614	41.0	113	2.4	3.6	1.5	90.3	258	44.7	816	85.0	0.10	5.0	64.1	7.8
SY Splendor_43	9.5	82.8	564	37.7	96	2.8	3.5	1.6	83.7	477	39.3	766	84.2	0.09	5.0		7.1
SY Splendor_41	9.5	82.4	527	34.7	90	2.9	3.4	1.8	69.7	686	34.7	712	83.5	0.07	5.0		6.0



- Highest yielding candidate, across UK and Nordics
- Multiyear consistent high yield in north Europe
- Stiff straw with excellent brackling resistance
- High specific weight and bold grain size
- Low protein with very high extract levels
- Moderate modification with good viscosity
- High flexibility for malting protocols
- Seed for MBC brewing pilots is in strong demand
- MBC Approval for Brewing – potential for May 2021
- 2020 multiplication in UK 600 ha, and DK 50ha
- 2<sup>nd</sup> year official test in Sweden applied by Lantmännen

