

**Danish Preferred**



**Commity meeting Børsen 21/02-2019**

**WISH**

**Lene Krusell  
Sejet Planteforædling**



# WISH – SJ 176305

Pedigree: KWS Cantton \* SJ 150905



High yield potentiel



Good kernel quality with high sorting



Overall good malting quality



High extract



Good modification



High amylolysis activity –  
Beta-amylase activity at RGT  
Planet and KWS Irina level in  
Frühvermälzung 2018



Very high Final attenuation

	KWS Irina_45	KWS Irina_43	KWS Irina_41	RGT Planet_45	RGT Planet_43	RGT Planet_41	Wish_45	Wish_43	Wish_41
<b>Extract</b>	4	4	4	4	4	4	3	3	3
<b>Friability</b>	4	4	5	3	4	5	2	3	3
<b>Beta-Glucan</b>	4	5	5	2	4	4	2	3	4
<b>Viscosity</b>	3	4	5	2	4	4	2	2	3
<b>FAN, diff. *</b>	3	5	8	-2	-3	1	9	4	1
<b>Soluble N, diff. *</b>	20	25	45	5	5	30	45	30	10
<b>Kolback, diff. *</b>	1	1	2	-1	0	2	4	3	3
<b>Alpha-Amylase</b>	5	5	4	1	1	3	1	3	4
<b>Beta-Amylase</b>	1	1	1	2	1	2	4	3	3
<b>Limit Dextrinase</b>	3	2	3	2	3	3	1	2	3
<b>Attenuation</b>	2	4	3	2	4	4	1	2	3
<b>Turbidity</b>	1	1	1	4	4	5	4	5	5
<b>Index **</b>	19	23	22	19	25	27	15	19	23
<b>Index mean ***</b>	41			45			36		
<i>Before limit dex. data</i>									
<b>Index **</b>	19	23	22	19	25	27	16	20	23
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Active in three scandinavian countries



FUT 2017-18



FUT 2018



Private trial 2018 – applied in  
official trial 2019



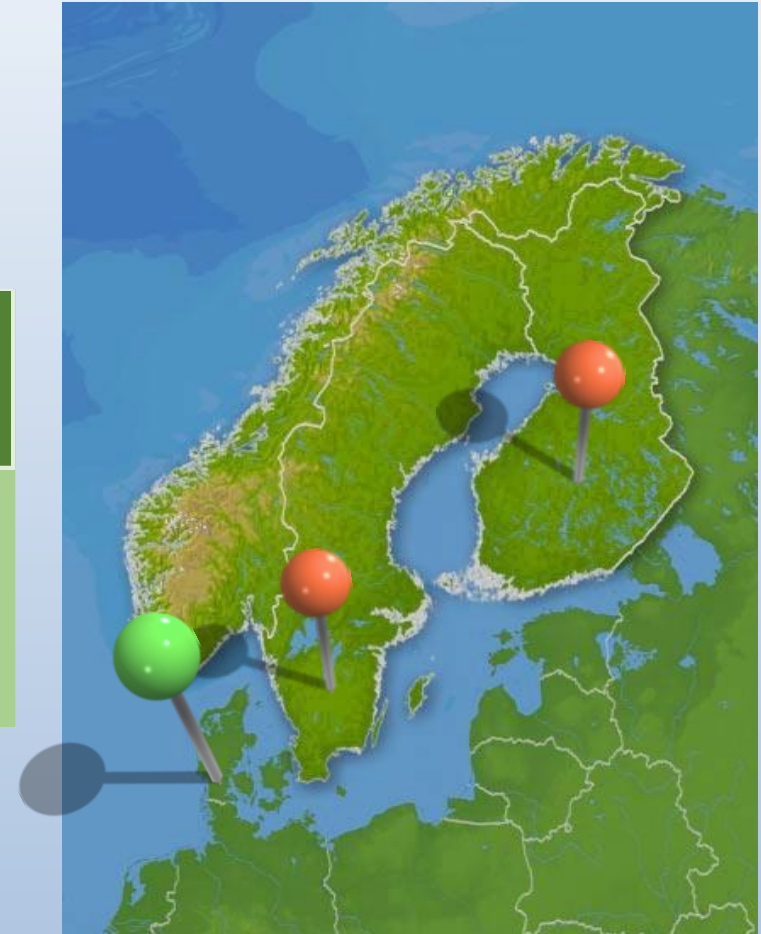
# WISH – SJ 176305

Pedigree: KWS Cantton \* SJ 150905

Results FUT Denmark 2017-18



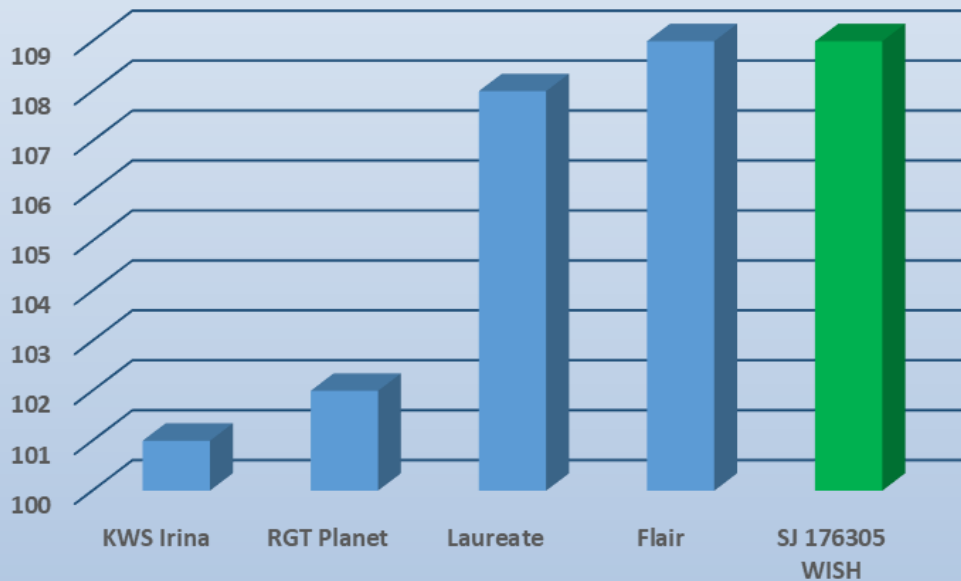
	REL. YIELD		SORTING			
	2017	2018	>2,5		>2,8	
			2017	2018	2017	2018
KWS IRINA	99	98	95	99	81	92
RGT PLANET	103	98	96	99	86	93
LAUREATE	105	99	95	99	86	94
<b>WISH</b>	<b>104</b>	<b>104</b>	<b>97</b>	<b>98</b>	<b>87</b>	<b>92</b>



# WISH – SJ 176305

Pedigree: KWS Canton \* SJ 150905

Rel. Yield results FUT Sweden 2018



# WISH – SJ 176305

Pedigree: KWS Cantton \* SJ 150905

Results Private trial 2018 –  
Applied in Official trial Finland 2019



Variety	Rel.Yield	Earliness (1-5)	Testweig ht (kg/ha)	TKW (g)	Sieving (%)	Protein %	Starch %
Fairytale	101	4	69,7	43	75	13,6	59,4
LG Nabuco	100	4	70,1	49	96	13,7	59,2
RGT Planet	98	3	70,0	50	96	13,0	60,5
<b>SJ 176305 - Wish</b>	<b>120</b>	<b>4</b>	<b>68,9</b>	<b>51</b>	<b>98</b>	<b>12,2</b>	<b>61,5</b>





## Denmark

Quality results from Danish Official Trials  
harvest 2017

		KWS Irina *	RGT Planet *	Laureate	Wish
Protein, % dm	3 loc	10,8	10,5	10,8	10,1
Extract, % dm	3 loc	81,0	81,4	81,9	82,7
Viscosity, mPa*s	3 loc	1,60	1,54	1,59	1,58
β-glucan, mg/l	3 loc	384	257	459	496
Friability, %	3 loc	83	86	75	80
Sol. N, mg/100 g dm	3 loc	740	787	778	851
Kolbach Index, %	3 loc	43	47	47	53
FAN, mg/100g dm	3 loc	145	145	131	143
β-amylase, BU/g dm	3 loc	1043	1069	1102	929
Attenuation, %	3 loc	85,0	85,3	83,0	82,5

\* KWS Irina and RGT Planet were analysed at a later timepoint in a separate analysis

## Denmark

Quality results from Danish Official Trials  
harvest 2018

		KWS Irina	RGT Planet	Wish
Protein, % dm	2 loc	10,8	11,0	10,6
Extract, % dm	2 loc	80,4	81,0	81,2
Viscosity, mPa*s	2 loc	1,86	1,77	1,68
β-glucan, mg/l	2 loc	548	383	242
Friability, %	2 loc	73	76	85
Sol. N, mg/100 g dm	2 loc	616	668	645
Kolbach Index, %	2 loc	36	38	38
FAN, mg/100g dm	2 loc	103	106	117
β-amylase, BU/g dm	2 loc	863	787	811
Attenuation, %	2 loc	82,7	83,3	83,8



Gebiet		Dänemark		
		KWS Irina	RGT Planet	Wish
Sorte				
Rohprotein Gerste (8,5-12,5 %)	%, w fr.	11,5	10,1	10,3
Sortierung > 2,8 mm	%	94	96	94
1. Sorte Gerste (>2,5 mm)	%	99	99	99



Wissenschaftszentrum  
 Weihenstephan für  
 Ernährung,  
 Landnutzung und  
 Umwelt  
 Technische Universität  
 München





Gebiet	Sorte	Dänemark		
		KWS Irina	RGT Planet	Wish
<b>iso 65 °C-Verfahren</b>				
Extrakt Malz TrS.	%, w fr.	80,9	82,5	82,9
Viskosität 65 °C (8,6 %)	mPas	2,047	1,928	1,847
Verzuckerungszeit	min.	5-10	5-10	5-10
Attenuation	%, schb.	82,4	83,4	84,5
Ablauf	klar/opal	klar	klar	klar
Farbe Fotometer	EBC	2,5	2,8	3,8
pH-Wert		6,01	6,01	6,03
Rohprotein Malz	%, w fr.	10,8	10,1	9,9
Löslicher N	mg/100g Malz-TrS.	532	572	595
Kolbach Index	%	30,8	35,4	37,6
FAN	mg/100g Malz TrS.	104	114	125
Beta-Glucan 65 °C	mg/l	1288	502	554
Alpha-Amylase	DU, w fr.	28	34	36
Beta-Amylase	BU, w fr.	861	775	882









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-  High extract
-  Good modification
-  High amylolysis activity – Beta-amylase activity at RGT Planet and KWS Irina level in Frühvermälzung 2018
-  Very high Final attenuation

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