








CROSSWAY

CROSSWAY

-  Breeder: Nordic Seed A/S - Denmark
-  Type: Spring malting barley
-  Pedigree: (Perdita*Titan)*Quench
-  Listed in:
 - Denmark 2014
 - Germany 2015
-  National list trials:
 - Russia and Poland
-  Industry malted by DMG and Avantgard malt, with positive results!

CROSSWAY FUT DK 2014-2017

Resultater fra stats- og landsforsøg

Sort	Gns. 2 år		Alle år		Udbytte (t/ha)						Merudbytte for svampebek.		Råprotein(%)		Kerne sortering > 2,5 mm (%)		Kerne sortering > 2,8 mm (%)		Hektolitervægt (kg/ha)		Meldug (%)		Bygrust (%)		Skoldplet (%)		Bladplet (%)		Ramularia(%)		Modning (dato)		Strå længde (cm)		Lejesæd, LF (kar. 0 - 10)		Lejesæd, OBS (kar. 0 - 10)		aks nedknægning (kar. 0 - 10)		strå nedknægning (kar. 0 - 10)		Nematode							
	Gns.	17	16	15	14	13	17	16	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	I	II																	
Crossway	99	101	99	101	100	105	11	3	11,2	96	83	65	0	19	0	1,2	20	07-aug	60	1,8	2	4,5	7	7	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R								
KWS Irina	98	101	99	100	103	103	11	2	11,4	95	81	64	0	18	0,1	0,1	14	06-aug	57	1,1	0	1	2	2	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R		
RGT Planet	103	104	103	103	104	106	11	3	11,3	96	86	65	0	16	1	1	16	05-aug	59	2,2	3	4,5	4	4	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R

CROSSWAY - TYSTOFTE MALT TEST 2013-2014

Sort	Viskositet, cP			Beta-glucan, mg/l			Ekstrakt, pct					
	Lok.1	Lok.2	Lok.3	Gns.	Lok.1	Lok.2	Lok.3	Gns.	Lok.1	Lok.2	Lok.3	Gns.
Congress Mash												
2013 Quench	1,57	1,53	1,51	1,54	170	159	96	142	80,1	82,0	80,7	80,9
2013 Crossway	1,46	1,45	1,45	1,45	39	37	37	38	82,3	83,1	82,3	82,6
Congress Mash												
2014 Quench	1,51	1,55	1,43	1,50	149	114	50	104	83,6	83,7	83,1	83,5
2014 Crossway	1,45	1,49	1,44	1,46	50	63	54	56	84,7	84,5	82,6	83,9

Sort	Proteinindhold., pct			Opløselig N, mg/100g dm			Kolbach Index, pct			Friabilitet, pct						
	Lok.1	Lok.2	Lok.3	Gns.	Lok.1	Lok.2	Lok.3	Gns.	Lok.1	Lok.2	Lok.3	Gns.				
Congress Mash																
2013 Quench	10,5	10,0	9,7	10,1	667	710	696	691	40	45	45	43	91	94	94	93
2013 Crossway	10,1	9,2	9,5	9,6	752	771	748	757	47	52	49	49	99	100	100	100
Congress Mash																
2014 Quench	9,2	8,5	9,1	8,9	664	677	744	695	45	50	51	49	96	96	99	97
2014 Crossway	9,1	8,8	9,4	9,1	720	725	778	741	50	52	52	51	99	99	99	99

Cultivating Value

STRESSTEST CROSSWAY

	KWS Irina_45	KWS Irina_43	KWS Irina_41	RGT Planet_45	RGT Planet_43	RGT Planet_41	Crossway_45	Crossway_43	Crossway_41
Extract	3	3	3	3	4	4	2	2	3
Friability	3	4	5	2	3	5	1	1	2
Beta-Glucan	2	4	5	2	3	5	1	1	2
Viscosity	2	3	5	1	2	4	1	1	2
FAN	2	2	3	2	2	3	3	3	3
Soluble N	2	2	3	2	2	3	3	2	2
Kolbach	2	3	3	2	2	3	2	2	3
Alpha-Amylase	4	4	4	1	2	3	3	3	4
Beta-Amylase	1	1	2	1	1	1	5	5	5
Limit Dextrinase	1	2	3	1	2	2	2	2	3
Attenuation	1	2	2	1	1	2	2	3	3
Turbidity	1	2	1	3	4	3	5	4	4



Extract

— High under all steeping degrees



Cytolysis

— High under all steeping degrees



Proteolysis

— High due to high degree of cytolysis



Amylolysis

— Ok level of Alpha-amylase and Limit Dextrinases

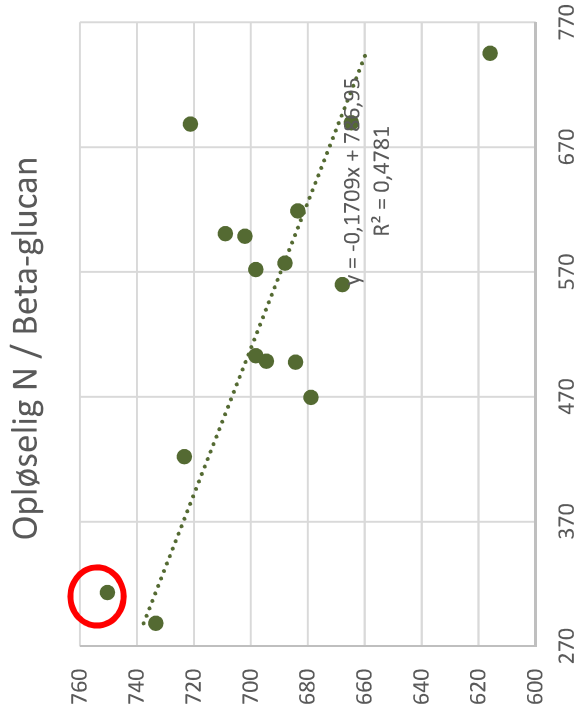
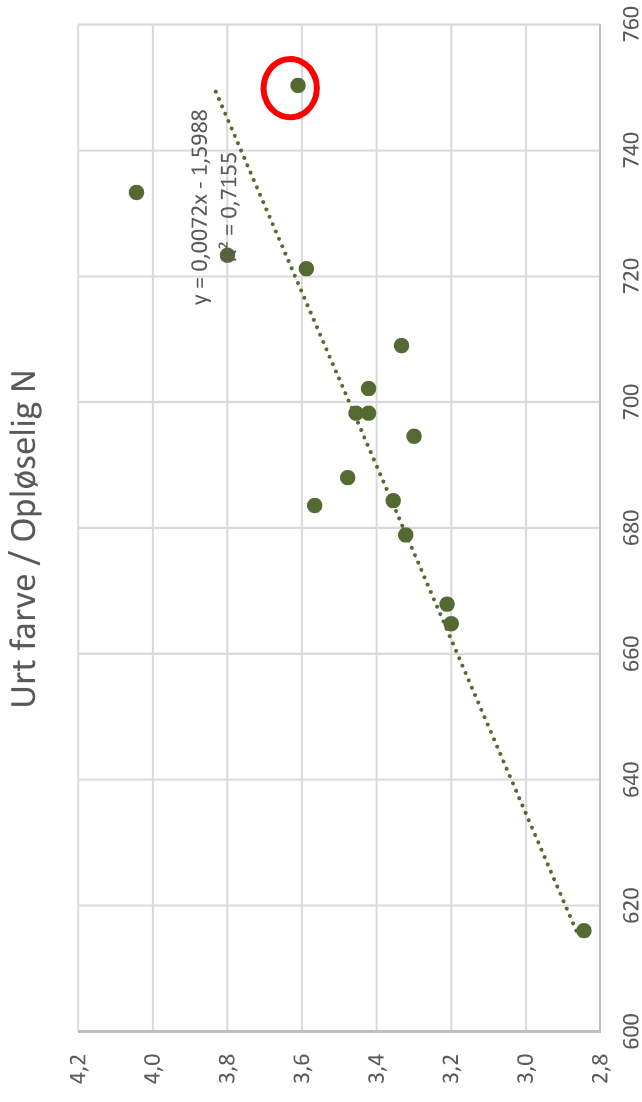
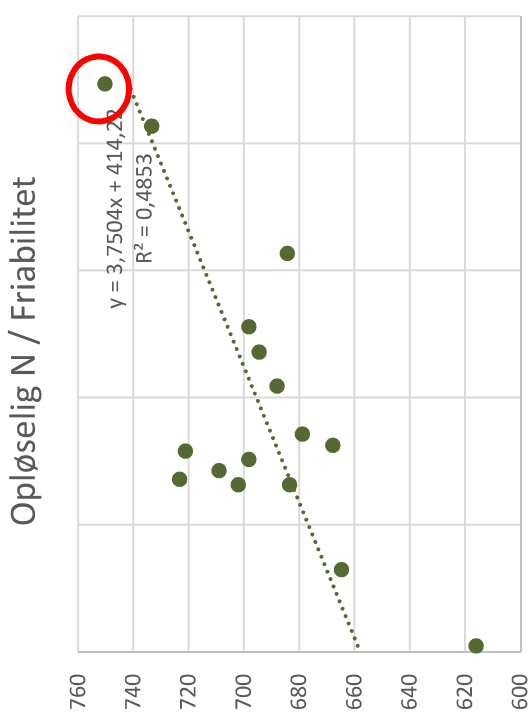
— Low Beta-amylase activity

— High level of Final Attenuation



Turbidity

STRESS TEST CROSSWAY - PROTEOLYSIS

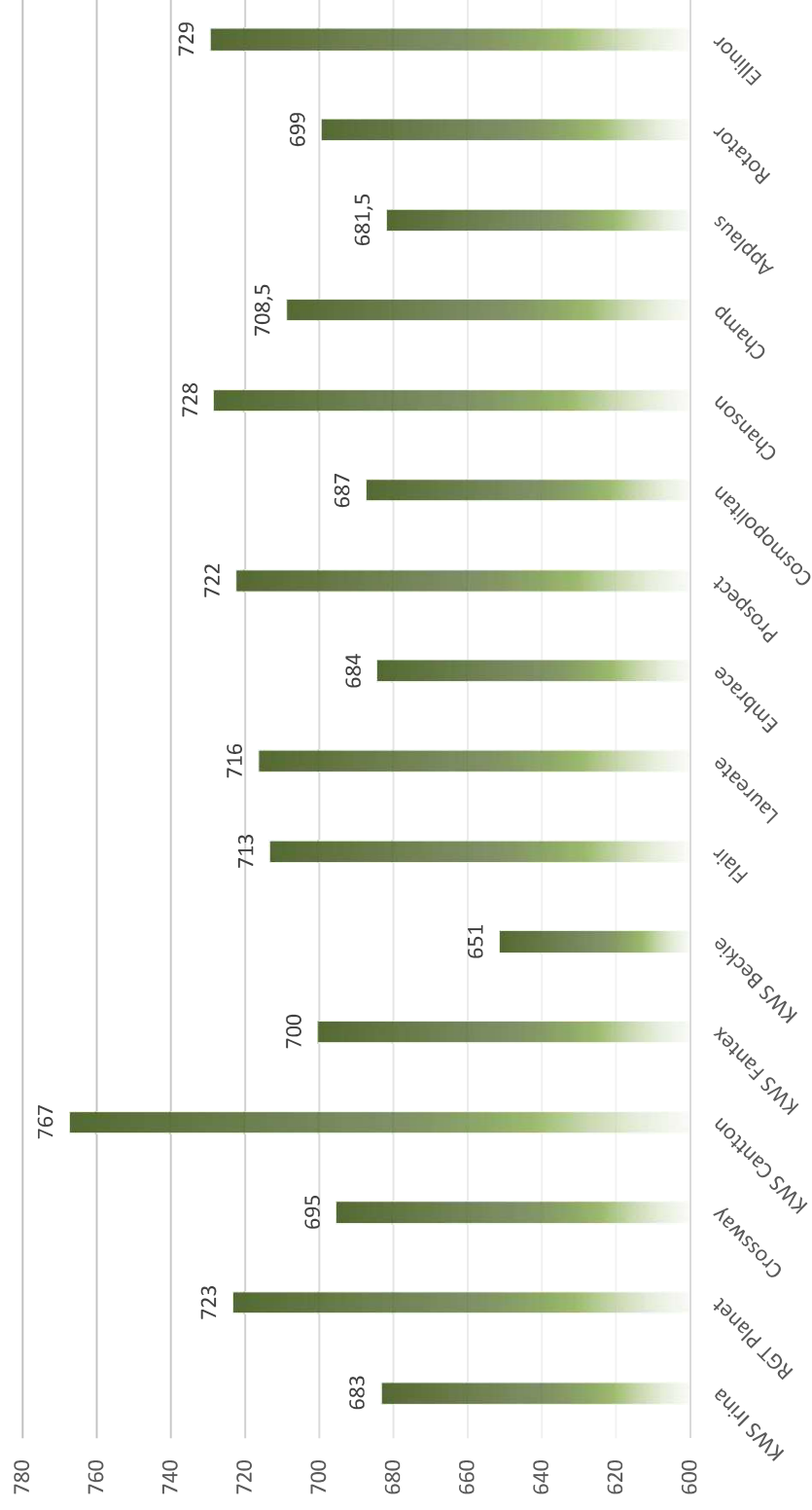


- 🌿 Soluble N nicely correlated with both friability and beta-glucan
- 🌿 Wort color remains low

STRESS TEST CROSSWAY - PROTEOLYSIS

Opløselig N ved ens modifikationsgrad.

(Værdien for KWS Beckie lidt undervurderet)



Cultivating Value

CROSSWAY 2018

- 🌿 Multiplication in Denmark by DLA/Danish agro (min. 750 ha)
- 🌿 Multiplication in Germany by Ceravis/Agravis (500-600 ha)
- 🌿 Industry malt
 - Holland Malt harvest 2017
- 🌿 Completion of Danish preferred in 2018