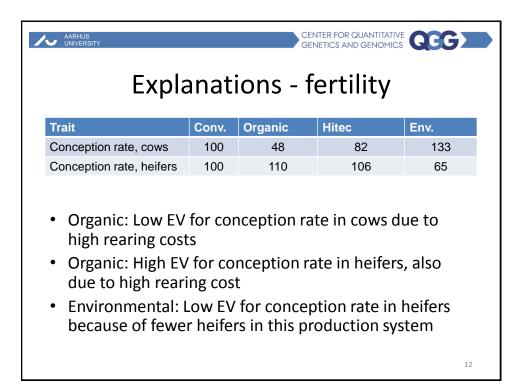


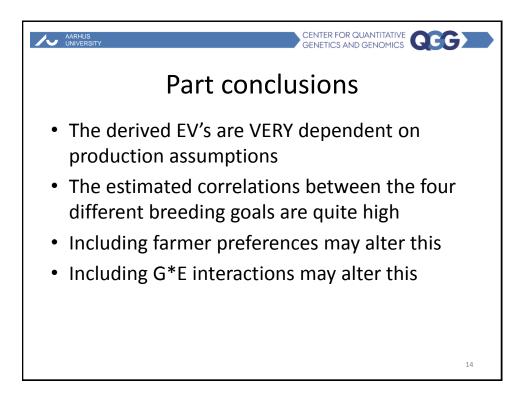
CENTER FOR QUANTITATIVE GENERATION AND GENOMICS COCCO Results – Selected traits for HF Relative economic values across environments within traits								
Trait	Conv.	Organic	Hitec	Env.				
Yield	100	121	93	98				
Feed efficiency	100	123	103	101				
Cow mortality	100	102	112	114				
Milk fewer	100	338	202	99				
Mastitis (infectious)	100	205	109	108				
Digetal Dermititis	100	101	81	100				
Conception rate, cows	100	48	82	133				
Conception rate, heifers	100	110	106	65				
Longevity	100	108	121	135				
				9				

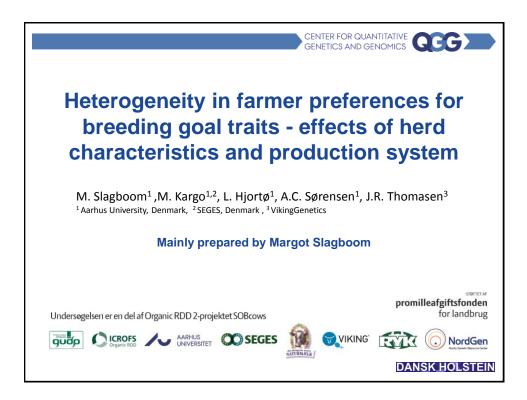
CENTER FOR QUANTITATIVE FOR QUANTITATIVE CENTER FOR QUANTITATIVE FOR QUANTIVE FOR QUANTITATIVE FOR QUANTITATIVE FOR QUANTIVE							
Trait	Conv.	Organic	Hitec	Env.			
Yield	100	121	93	98			
Feed efficiency	100	123	103	101			
<ul> <li>Organic: High organic milk a</li> </ul>			0 1				
				10			

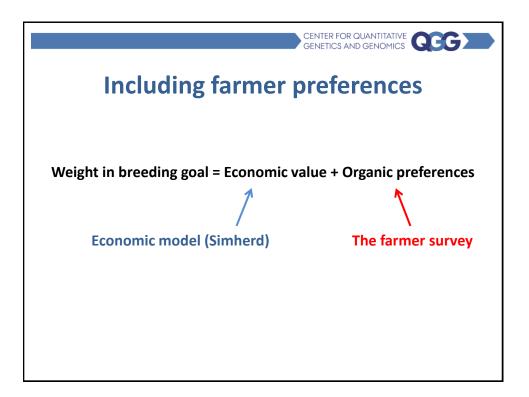
AARHUS UNIVERSITY		CE	NTER FOR QUANTITATIV NETICS AND GENOMICS						
<b>Explanations - Health</b>									
Trait	Conv.	Organic	Hitec	Env.					
Milk fewer	100	338	202	99					
Mastitis (infectious)	100	205	109	108					
Digetal Dermititis	100	101	81	100					
<ul> <li>Digetal Dermititis 100 101 81 100</li> <li>Organic: High EVs due to restrictions on use of antibiotics</li> <li>Hitec: High EV for milk fewer because of more older cows</li> </ul>									
				11					

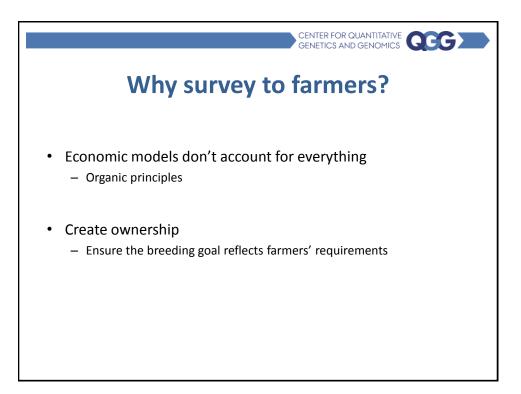


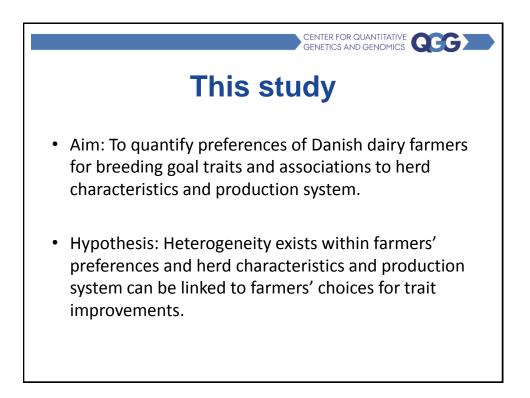
AARHUS UNIVERSITY	CENTER FOR QUANTITATIVE GEGEN								
<b>Explanations - longevity</b>									
Trait	Conv.	Organic	Hitec	Env.					
Longevity	100	108	121	135					
<ul><li>are more health</li><li>they are more</li><li>Env: High EV fo</li><li>are important i</li></ul>	Longevity100108121135• Hitec: High EV for longevity because older cows are more healthy in this system and therefore they are more valuable								





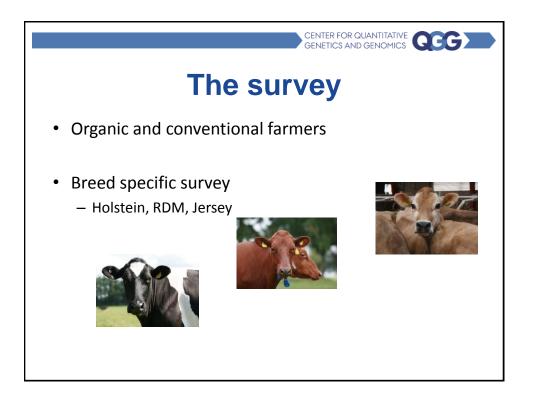




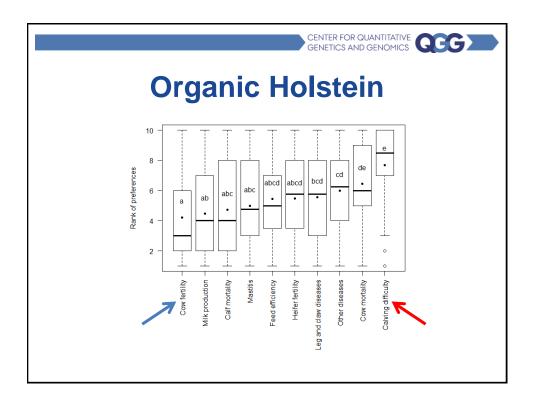


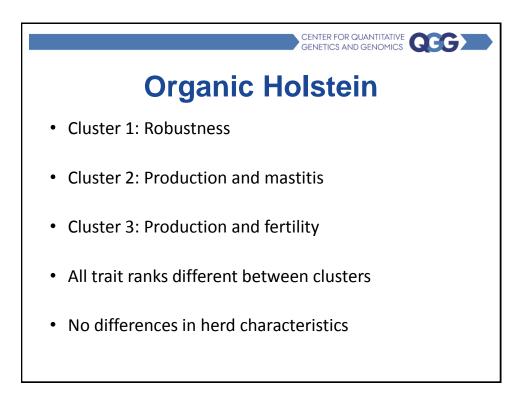
	CG	ENTER FOR QUANTITATIVE ENETICS AND GENOMICS	
The	surv	ey	
1000 <b>minds</b> °			
Preferences survey Please reveal your preferences by answering the following quest	tions.		
Question # 1			
	e two alternatives do you p y're identical in all other respects)	refer?	
Milk production +38 kg ECM per 305 days lactation Mastitis A sin your herd today	Mastitis	ction pur herd today cases per 100 cows	
this one	OR	this one	
t	hey are equal	skip this question for now »	
<ul> <li>Larger font for questions (easier to read)</li> </ul>	0% complete		

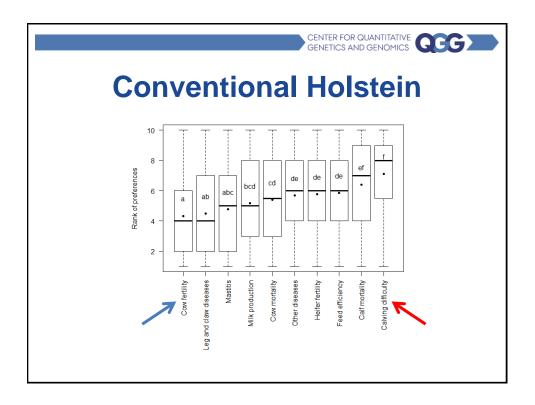
CENTER FOR QUANTITATIVE GECC									
The survey									
Based on	<ul><li>Improvements are economically equal</li><li>Based on economic weights of simulation study for</li></ul>								
an organio Trait	-		Jersev						
Feed efficiency	0.010	0.010	/	kg ECM per feed unit					
	0.010	0.010		No Letti per recu unit					
Milk production	38	35	33	kg ECM per 305 days lactation					
Milk production Cow fertility	38 39	35 10	33 8	kg ECM per 305 days lactation Additional pregnancies per 100 inseminations					
Milk production Cow fertility Heifer fertility				kg ECM per 305 days lactation Additional pregnancies per 100 inseminations Additional pregnancies per 100 inseminations					
Cow fertility	39	10	8	Additional pregnancies per 100 inseminations					
Cow fertility Heifer fertility	39 11	10 11	8 13	Additional pregnancies per 100 inseminations Additional pregnancies per 100 inseminations					
Cow fertility Heifer fertility Calving difficulty	39 11 -8.2	10 11 -8.6	8 13 -8.5 -5.1	Additional pregnancies per 100 inseminations Additional pregnancies per 100 inseminations Cases per 100 cows					
Cow fertility Heifer fertility Calving difficulty Mastitis	39 11 -8.2 -5.3 -10.1	10 11 -8.6 -5.0	8 13 -8.5 -5.1 -8.6	Additional pregnancies per 100 inseminations Additional pregnancies per 100 inseminations Cases per 100 cows Cases per 100 cows					
Cow fertility Heifer fertility Calving difficulty Mastitis Other diseases	39 11 -8.2 -5.3 -10.1	10 11 -8.6 -5.0 -10.9	8 13 -8.5 -5.1 -8.6	Additional pregnancies per 100 inseminations Additional pregnancies per 100 inseminations Cases per 100 cows Cases per 100 cows Cases per 100 cows					

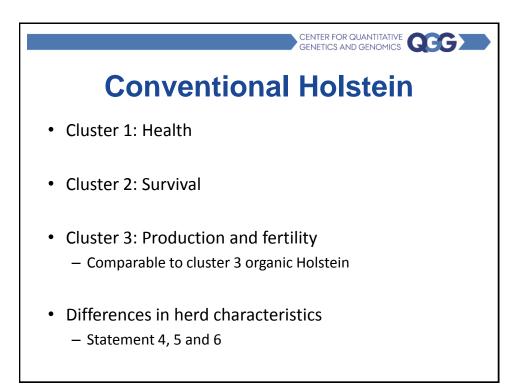


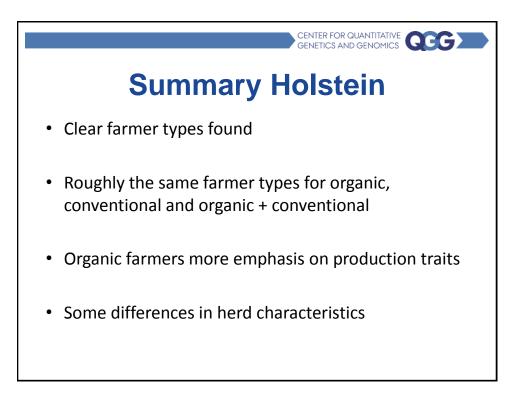
CENTER FOR QUANTITATIVE GEGEN									
Response									
<ul> <li>Trait rankings per farmer (1 highest - 10 lowest)</li> <li>Number of respondents</li> </ul>									
Herds	Holstein	RDM	Jersey						
Organic (48%)	106	29	27						
Conventional (13%)	290	58	49						
Total (16%) 396 87 76									

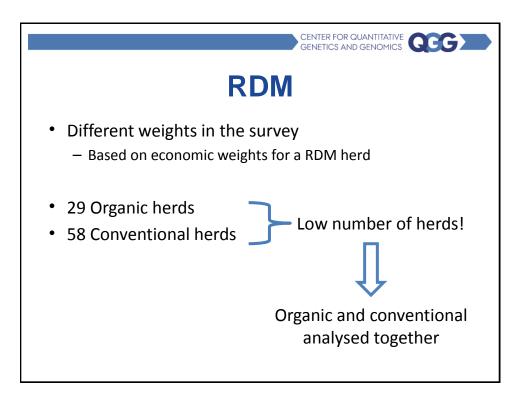


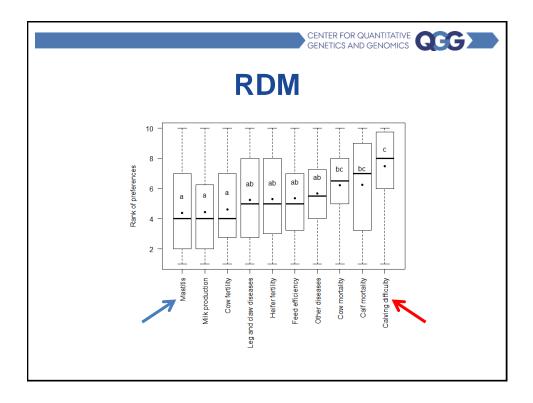


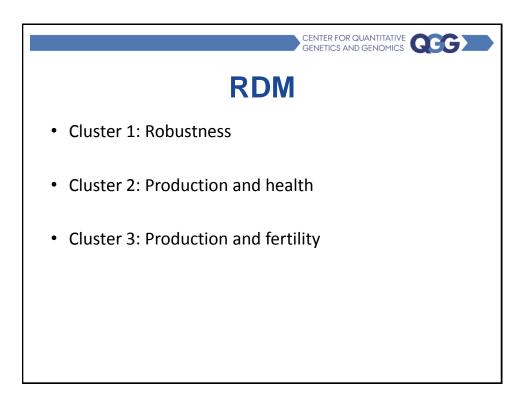




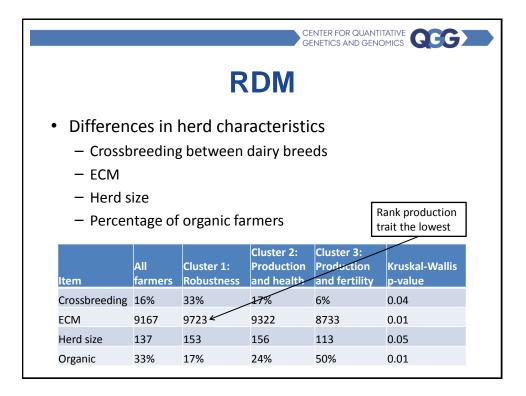








			CE	NTER FOR ( NETICS AN	QUANTI D GENC	
		R	DM			
— ECM — Herd s	ize	nerd char g between organic fa	dairy bree	ds r	More	robust cows,
reitei	itage oi	organic la	IIIEIS	L	more	crossbreeding?
ltem	All farmers	Cluster 1: Robustness	Cluster 2: Production and health	Cluster Product and fert	ion	Kruskal-Wallis p-value
Crossbreeding	16%	33% <	17%	6%		0.04
ECM	9167	9723	9322	8733		0.01
Herd size	137	153	156	113		0.05
Organic	33%	17%	24%	50%		0.01



			G	ENTER FOR QUANTI ENETICS AND GENC		
		R	DM			
<ul> <li>Differences in herd characteristics         <ul> <li>Crossbreeding between dairy breeds</li> <li>ECM</li> <li>Herd size</li> <li>Percentage of organic farmers</li> </ul> </li> </ul>						
ltem	All farmers	Cluster 1: Robustness	Cluster 2: Production and health	Cluster 3: Production and fertility	Kruskal-Wallis p-value	
Crossbreeding	16%	33%	17%	6%	0.04	
ECM	9167	9723	9322	8733	0.01	
Herd size	137	153	156	113	0.05	
Organic	33%	17%	24%	50%	0.01	

