

# Preferences for Breeding Goal Traits for Danish Red and Jersey Cattle

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# Farmer preferences for breeding goal traits

Weight in breeding goal = Economic value + Farmer preferences

 Image: Additional state
 Image: Additional state

# Farmer preferences for breeding goal traits

- Economic models don't account for everything
  - Organic principles

- Create ownership
  - Ensure the breeding goal reflects farmers' requirements

## Aim

- To characterize preferences of farmers with Danish Red (*DR*) or Danish Jersey (*DJ*) cows
  - Heterogeneity in farmers' preferences
  - Herd characteristics and production system







#### Improvements economically equal

# Economic weights for an organic system

#### Which of these two alternatives do you prefer?

(given they're identical in all other respects)



# **Danish Red**

- Highest mastitis and milk production
- Lowest calving difficulty
- Clear clusters
  - Robustness
  - Production and health
  - Fertility and production

## Herd characteristics Danish Red

		Robustness		SS	Production and Health	Fertility and Production		P-value		
	ECM, kg		9,723		9,322		8,733		0.01	
	Fat yield, kg		404		402		375		0.04	
	Milk yield, kg		9,885		9,864		9,142		0.04	
	Protein yield, kg		335		334		307		0.03	
	% Organic		/17		24		50↑		0.01	
	% Crossbreeding	/	/33_		17		6 1		0.04	
	Herd size	/	153		156		113		0.05	
	Udder disorders		0.27≮		0.25 <		0.19		0.08	
Fa	Irn Ranked milk production the lowest			0			Ranked mastitis the highest		the	

# **Danish Jersey**

- Highest mastitis
- Lowest calving difficulty
- Clear clusters
  - Fertility and production
  - Production and robustness
  - Survival

### Herd characteristics Danish Jersey

		Fertility and Production	Production and Robustness	Survival	P-value
	% Dead cows	1.7	4.4	5.5	0.04
	Udder disorders	0.18	0.27	0.33	0.03
• F	armor want what Ranked cow morta the lowest	R Ranked mastitis tl the highest			

# **Conclusions and implications**

- Farmers' preferences are heterogeneous
  - Clear groups of farmers found
- Herd characteristics linked to farmer groups
  - Farmer want to improve what they don't have
- Customized indices (at herd level) or different breeding goals
  - Increases ownership
  - Simulate long term effects