

STØTTET AF

Mælkeafgiftsfonden

Snell score calving sire and parent

I have run a full model and a reduced model (same as used for interbull validation test3).

I have counted how many offspring each bull have in full and reduced.

For bulls with

- Status =1 (AI bulls)
- Nordic
- No offspring in reduced dataset
- Minimum of 50 offspring in full dataset

Model1:

$\text{own_index} = \text{mother_index} + \text{father_index}$

Model2:

$\text{own_index} = \text{mgs_index} + \text{father_index}$

own_index is from the model with full dataset, while mother_index, father_index and mgs_idx are from the model with reduced dataset.

The results deviate from the expectation that b1mother and b1father should be around 0.50 and b1mgs should be around 0.25.

Results for direct traits for HOL

trait	N	model1 b1mother	model1 b1father	model1 Rsq	model2 b1mgs	model2 b1father	model2 Rsq
dSB1	44	0.19	0.45	0.18	0.13	0.47	0.18
dCE1	46	0.23	0.30	0.14	0.16	0.31	0.13
dCS1	41	0.16	0.31	0.13	-0.09	0.23	0.06
dSB2	44	0.30	0.26	0.10	0.42	0.25	0.17
dCE2	45	0.20	-0.06	0.04	0.18	0.00	0.05
dCS2	42	0.13	0.38	0.13	0.05	0.36	0.11