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.

A: Bull index full and parent index full

Bulls. AI. Nordic. Bull has >50 offspring in full model and zero offspring in reduced model.
Father has >50 offspring in full and MGS has >50 offspring in full.
Model1: own_index_full = mother_index_full + father_index_full
Model2: own_index_full = mgs_index_full + father_index_full

HOL

trait	model1 N	model1 b1mother	model1 b1father	model1 Rsq	Model2 N	model2 b1mgs	model2 b1father	model2 Rsq
dSB1	196	0.68	0.48	0.63	196	0.21	0.43	0.33
dCE1	195	0.61	0.46	0.53	195	0.24	0.38	0.26
dCS1	160	0.78	0.41	0.52	160	0.21	0.30	0.12
dSB2	209	0.77	0.48	0.59	209	0.27	0.43	0.28
dCE2	205	0.65	0.39	0.44	205	0.29	0.32	0.18
dCS2	189	0.71	0.52	0.56	189	0.28	0.48	0.26

JER

trait	model1 N	model1 b1mother	model1 b1father	model1 Rsq	Model2 N	model2 b1mgs	model2 b1father	model2 Rsq
dSB1	69	1.07	0.51	0.75	69	0.35	0.56	0.28
dCE1	65	0.98	0.51	0.67	65	0.33	0.46	0.21
dCS1	65	0.62	0.50	0.54	65	0.19	0.50	0.34
dSB2	89	1.14	0.54	0.73	89	0.35	0.55	0.22
dCE2	87	1.30	0.59	0.76	87	0.56	0.46	0.13
dCS2	86	0.62	0.56	0.48	86	0.20	0.47	0.28

B: Bull index full and parent index reduced

Bulls. AI. Nordic. Bull has >50 offspring in full model and zero offspring in reduced model.
Father has >50 offspring in reduced and MGS has >50 offspring in reduced.
Model1: own_index_full = mother_index_reduc + father_index_reduc
Model2: own_index_full = mgs_index_reduc + father_index_reduc

HOL

trait	model1 N	model1 b1mother	model1 b1father	model1 Rsq	Model2 N	model2 b1mgs	model2 b1father	model2 Rsq
dSB1	90	0.35	0.45	0.31	97	0.20	0.44	0.30
dCE1	91	0.32	0.25	0.15	98	0.25	0.29	0.20
dCS1	78	0.28	0.15	0.06	82	0.19	0.20	0.06
dSB2	100	-0.01	0.35	0.14	107	0.10	0.36	0.16
dCE2	98	0.23	-0.05	0.05	105	0.33	0.07	0.14
dCS2	85	0.29	0.30	0.11	91	0.29	0.39	0.18

JER

trait	model1 N	model1 b1mother	model1 b1father	model1 Rsq	Model2 N	model2 b1mgs	model2 b1father	model2 Rsq
dSB1	41	0.44	0.55	0.23	41	0.18	0.58	0.20
dCE1	37	0.12	0.38	0.14	37	0.04	0.38	0.14
dCS1	37	0.08	0.50	0.35	37	0.15	0.54	0.38
dSB2	47	0.54	0.56	0.17	47	0.29	0.54	0.14
dCE2	47	-0.12	0.23	0.03	48	-0.15	0.17	0.03
dCS2	47	0.07	0.61	0.31	47	0.26	0.63	0.43

C: Bull index full and parent index full

Bulls born between 2010 and 2015 both years included. AI. Nordic. Bull has >50 offspring for full.
Father has >50 offspring in full and MGS has >50 offspring in full.
Model1: own_index_full = mother_index_full + father_index_full
Model2: own_index_full = mgs_index_full + father_index_full

HOL

trait	model1 N	model1 b1mother	model1 b1father	model1 Rsq	Model2 N	model2 b1mgs	model2 b1father	model2 Rsq
dSB1	629	0.76	0.44	0.64	629	0.26	0.45	0.28
dCE1	610	0.71	0.46	0.58	610	0.21	0.45	0.22
dCS1	485	0.66	0.46	0.56	485	0.20	0.38	0.21
dSB2	672	0.80	0.43	0.61	672	0.26	0.41	0.21
dCE2	668	0.75	0.39	0.55	668	0.29	0.35	0.17
dCS2	580	0.62	0.42	0.55	580	0.19	0.35	0.21

JER

trait	model1 N	model1 b1mother	model1 b1father	model1 Rsq	Model2 N	model2 b1mgs	model2 b1father	model2 Rsq
dSB1	190	1.02	0.51	0.71	190	0.13	0.40	0.20
dCE1	175	0.93	0.55	0.71	175	0.23	0.49	0.32
dCS1	138	0.74	0.61	0.69	138	0.15	0.61	0.36
dSB2	262	1.08	0.51	0.67	262	0.20	0.38	0.12
dCE2	262	1.08	0.53	0.67	262	0.30	0.49	0.20
dCS2	261	0.72	0.50	0.60	261	0.20	0.45	0.26