

Supplementary Table S1. Descriptive statistics of de-regressed estimated breeding values (DRP) and their reliabilities of the young stock survival index, its 4 components traits: bull period 1 (BP1), bull period 2 (BP2), heifer period 1 (HP1), heifer period 2 (HP2), and stillbirth.

Summary	YSS index		HP1		HP2		BP1		BP2		Stillbirth	
	DRP	Reliability	DRP	Reliability	DRP	Reliability	DRP	Reliability	DRP	Reliability	DRP	Reliability
Mean	101.10	0.65	100.7	0.34	101.90	0.50	99.63	0.276	101.3	0.70	95.82	0.67
SD	16.19	0.14	33.71	0.15	21.61	0.15	41.74	0.14	13.55	0.14	15.00	0.12
Minimum	47.15	0.06	-2.74	0.03	34.39	0.07	-30.69	0.01	59.78	0.08	48.39	0.24
Maximum	152.40	0.99	201.60	0.98	167.70	0.98	225.00	0.97	142.30	0.99	142.00	0.99

Supplementary Table S2. The correlation of estimated breeding values (EBV) (above diagonal), de-regressed estimated breeding values (DRP) (below diagonal), and heritability (diagonal) as reported by Pedersen et al. (2014) for the young stock survival index (YSS) and its 4 components traits: bull period 1 (BP1), bull period 2 (BP2), heifer period 1 (HP1), heifer period 2 (HP2).

	YSS index	BP1	BP2	HP1	HP2
YSS	-	0.80	0.93	0.83	0.95
BP1	0.78	0.007	0.57	0.96	0.58
BP2	0.93	0.55	0.027	0.57	0.98
HP1	0.82	0.98	0.54	0.009	0.64
HP2	0.94	0.61	0.97	0.63	0.011