

## Statistical parameters

Traits/effects*	Mean	SD	Minimum	Maximum
MY_total (kg)	31.88	11.07	1.70	88.42
AMF (kg min <sup>-1</sup> )	2.05	0.64	0.11	4.00
MY_fl (kg)	2.90	1.09	0.21	6.80
MY_rl (kg)	3.76	1.41	0.61	8.40
MY_fr (kg)	3.01	1.17	0.21	7.40
MY_rr (kg)	3.67	1.44	0.21	8.60
EC (mS cm <sup>-1</sup> )	4.92	0.37	3.78	6.06
EC_fl (mS cm <sup>-1</sup> )	4.95	0.42	3.76	6.30
EC_rl (mS cm <sup>-1</sup> )	4.95	0.40	3.91	6.30
EC_fr (mS cm <sup>-1</sup> )	4.96	0.41	3.91	6.30
EC_rr (mS cm <sup>-1</sup> )	4.95	0.41	3.91	6.30
DUR (min)	6.27	1.84	1.02	15.00
INT (h)	9.16	2.65	2.05	18.00
VIS3	0.52	0.50	0	1
VIS4	0.10	0.29	0	1
KO	0.08	0.28	0	1
DIM (days)	164.56	90.04	5.00	364.00
CA (month)	37.16	10.04	20.47	71.23

\* MY\_total: total milk yield per day. AMF: average milk flow. MY\_fl, \_fr, \_rl, and \_rr: milk yield at a quarter basis: front left, front right, rear left, and rear right. EC: electrical conductivity from all four quarters. EC\_fl, \_fr, \_rl, and \_rr: electrical conductivity at a quarter basis: front left, front right, rear left, and rear right. DUR: milking time during a visit in the milking robot. INT: interval between two consecutive milkings. VIS3: at least three visits to the milking robot per day. VIS4: at least four visits to the milking robot per day. KO: knock off of the milking device from at least one udder quarter. DIM: days in milk. CA: calving age.