

Early reproductive disorders (%)	3.2	-0.10	6.8	-0.16	3.4	-0.11	1.4	-0.07
Late reproductive disorders (%)	8.6	-0.14	2.1	-0.07	12.3	-0.17	5.6	-0.12
Ketosis (%)	1.0	-0.04	2.4	-0.06	0.9	-0.04	0.6	-0.03
Other metabolic diseases (%)	3.1	-0.09	4.0	-0.10	2.8	-0.08	3.4	-0.09
Feet and leg problems (%)	2.4	-0.07	6.5	-0.12	0.9	-0.05	2.9	-0.07
Claw health								
Sole ulcer (p)	0.04	-0.003	0.06	-0.004	0.04	-0.002	0.04	-0.002
Sole hemorrhage (p)	0.16	-0.006	0.24	-0.008	0.15	-0.006	0.15	-0.006
Heel horn erosion (p)	0.14	-0.006	0.14	-0.007	0.16	-0.007	0.12	-0.006
Digital dermatitis + interdigital Dermatitis (p)	0.12	-0.004	0.21	-0.004	0.05	-0.003	0.13	-0.004
Verrucose dermatitis + Interdigital Hyperplasia (p)	0.03	-0.002	0.08	-0.003	0.02	-0.002	0.02	-0.002
Double sole + white line separation (p)	0.05	-0.002	0.11	-0.002	0.07	-0.002	0.03	-0.001
Cork screw claw (p)	0.03	-0.002	0.01	-0.001	0.05	-0.003	0.02	-0.002
Frame								
Stature (cm)	141.0	0.28	141.7	0.26	141.2	0.31	140.8	0.25
Body depth (1-9)	5.1	0.03	5.3	0.03	4.9	0.04	5.3	0.03
Chest width (1-9)	4.9	0.02	4.9	0.03	4.9	0.03	4.9	0.02
Dairy form (1-9)	4.6	0.03	4.2	0.03	4.6	0.04	4.9	0.03
Top line (1-9)	6.2	0.03	6.4	0.03	6.0	0.03	6.3	0.03
Rump width (1-9)	4.8	0.04	4.7	0.05	4.8	0.04	4.9	0.04
Rump angle (1-9)	5.2	0.05	5.3	0.05	5.2	0.05	5.1	0.05
Feet & legs								
Rear legs, side view (1-9)	5.3	0.04	5.5	0.05	5.3	0.05	5.3	0.04
Rear legs, rear view (1-9)	5.7	0.03	5.5	0.03	5.8	0.04	5.9	0.03
Hock quality (1-9)	5.8	0.05	6.0	0.05	5.7	0.05	5.8	0.04
Bone quality (1-9)	6.2	0.04	6.3	0.04	6.1	0.05	6.3	0.04
Foot angle (1-9)	4.9	0.03	4.8	0.02	5.0	0.03	4.9	0.02
Udder								
Fore udder attachment (1-9)	5.4	0.04	5.0	0.05	5.6	0.04	5.6	0.04
Rear udder height (1-9)	5.6	0.03	5.4	0.04	5.6	0.03	5.7	0.03
Rear udder width (1-9)	4.9	0.04	4.7	0.04	5.0	0.04	5.1	0.04
Udder cleft (1-9)	5.3	0.03	5.2	0.04	5.3	0.03	5.3	0.03
Udder depth (1-9)	5.7	0.06	5.3	0.06	5.8	0.06	5.8	0.06
Teat length (1-9)	4.4	0.07	4.3	0.07	4.4	0.07	4.5	0.06
Teat thickness (1-9)	4.7	0.05	4.6	0.06	4.6	0.06	4.8	0.05
Teat placement (front) (1-9)	5.0	0.05	5.2	0.05	4.9	0.05	5.0	0.05
Teat placement (back) (1-9)	6.3	0.05	6.0	0.04	6.3	0.05	6.4	0.05
Udder balance (1-9)	4.8	0.03	4.9	0.03	4.8	0.03	4.9	0.03
Milkability (g fat+protein/min)	168	2.6	n/a	n/a	n/a	n/a	n/a	n/a
Temperament (1-5 or 1-9)	n/a	n/a	5.3	0.05	3.3	0.03	5.7	0.05
Longevity (days in production)	876	11.2	775	10.8	928	11.5	861	11.0
Youngstock survival								
Early period (heifers) (%)	97.7	0.11	96.8	0.13	98.0	0.10	97.6	0.12
Late period (heifers) (%)	95.5	0.19	96.2	0.19	96.4	0.17	94.0	0.23
Early period (bulls) (%)	96.6	0.11	96.1	0.12	96.1	0.11	97.5	0.09
Late period (bulls) (%)	94.9	0.28	93.6	0.33	94.2	0.28	97.1	0.22