

Table 2. Analysis of variance for milk yield, acetone and β -hydroxybutyrate acid (BHBA) contents

Variable	DF ¹	Mean squares and F-values					
		Milk	F	Acetone	F	BHBA	F
Herd	691	1,724	133	0.2635	37	0.2128	58
Lactation Stage	11	146,533	11,285	10.2795	1,426	2.6834	726
Parity	1	25,375	1,954	7.2400	1,004	0.1878	51
Milking time	1	41,212	3,174	8.4952	1,178	2.5976	703
Age	1	59,041	4,547	1.0636	148	0.7064	191
Age*age	1	46,348	3,569	0.5929	82	0.2994	81
Error	377,379	13		0.0072		0.0037	

¹Degree of freedom, all values were significantly different from zero ($p < 0.0001$)

Table 3. Regression coefficients and standard errors of age of month at calving for milk yield, acetone and β -hydroxybutyrate acid (BHBA) contents

Traits	Linear	Quadratic
Milk	0.12538314 \pm 0.00185940	-0.00080220 \pm 0.00001343
Acetone	0.00053218 \pm 0.00004382	-0.00000287 \pm 0.00000032
β -hydroxybutyrate acid	0.00043371 \pm 0.00003137	-0.00000204 \pm 0.00000023

All values were significantly different from zero ($p < 0.0001$)

Table 4. Least squares means and standard errors of lactation stage (LS), parity and milking time for milk yield, acetone and β -hydroxybutyrate acid (BHBA) contents