**Supplementary Table S4.** Milk secretion (g/d) of selected fatty acids of early lactation Holstein and Montbéliarde cows under two low-input production systems.

|  | System 1 |  | Breed 2 |  | *P*–value 3 |
| --- | --- | --- | --- | --- | --- |
| Ext | Semi | Hols | Mont | SEM | System | Breed | Syst × Breed | Syst × Time | Breed × Time | Syst × Breed × Time |
| 10:0 | 16.8 | 21.0 |  | 19.0 | 18.8 | 1.2 | < 0.01 | 0.94 | 0.39 | 0.29 | < 0.10 | 0.57 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12:0 | 18.7 | 24.1 |  | 21.4 | 21.5 | 1.4 | < 0.01 | 0.97 | 0.50 | 0.18 | 0.13 | 0.61 |
| 14:0 | 68.6 | 79.0 |  | 75.5 | 72.1 | 3.4 | 0.02 | 0.42 | 0.37 | 0.40 | 0.52 | 0.27 |
| 15:0 | 8.3 | 8.6 |  | 8.8 | 8.1 | 0.3 | 0.52 | 0.10 | 0.51 | 0.42 | 0.17 | 0.52 |
| 16:0 | 201 | 219 |  | 226 | 194 | 8 | < 0.10 | < 0.01 | 0.68 | 0.05 | < 0.10 | < 0.05 |
| 17:0 | 7.2 | 7.3 |  | 7.8 | 6.7 | 0.3 | 0.89 | < 0.01 | 0.85 | 0.36 | < 0.01 | < 0.05 |
| 18:0 | 103 | 86 |  | 104 | 85 | 4 | < 0.01 | 0.001 | < 0.10 | 0.28 | < 0.05 | < 0.05 |
| *cis*-9 18:1 | 218 | 219 |  | 236 | 200 | 7 | 0.96 | < 0.001 | 0.92 | 0.55 | 0.31 | < 0.01 |
| *trans-*10 18:1 | 1.1 | 1.9 |  | 1.5 | 1.6 | 0.1 | < 0.001 | 0.68 | 0.99 | 0.15 | 0.15 | 0.76 |
| *cis*-9 cis-12 18:2 | 9.9 | 11.7 |  | 11.8 | 9.8 | 0.4 | < 0.001 | < 0.001 | 0.79 | 0.24 | 0.05 | 0.49 |
| 18:3n-3 | 7.0 | 6.7 |  | 7.3 | 6.3 | 0.3 | 0.39 | < 0.01 | 0.53 | 0.23 | 0.59 | 0.46 |
| ∑ 10:0 to 15:0 | 127 | 150 |  | 142 | 135 | 7 | 0.01 | 0.44 | 0.40 | 0.29 | 0.25 | 0.39 |
| ∑ >C16  | 415 | 403 |  | 443 | 376 | 13 | 0.48 | < 0.001 | 0.44 | 0.29 | 0.41 | 0.01 |
| 1 Production system, extensive (Ext) and semi-extensive (Semi).2 Holstein-Friesian (Hols) and Montbéliarde (Mont). 3 Time effect (weeks 2, 3, 5, 8, 12 of lactation) was significant for all variables. |
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