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| **Table S1.** Data set used for model development | | | | | |
| Study | *n* | Level of feeding | Feeding system | Sex class | Genotype |
| Pereira (2011) | 8 | High | Feedlot | Intact males | Santa Ines |
| 8 | Intermediary |
| 8 | Maintenance |
| Costa *et al*. (2013) | 8 | High | Feedlot | Intact males | Morada Nova |
| 16 | Intermediary |
| 8 | Low |
| 7 | Maintenance |
| Oliveira *et al*. (2014) | 7 | High | Feedlot | Intact males | Santa Ines |
| 12 | Intermediary |
| 5 | Low |
| 5 | Maintenance |
| Pereira *et al*. (2014) | 8 | High | Feedlot | Intact males | Brazilian Somali |
| 16 | Intermediary |
| 8 | Low |
| 7 | Maintenance |
| Rodrigues *et al*. (2016) | 14 | High | Feedlot | Intact males/  Castrated males/Females | Crossbred |
| 29 | Maintenance |
| Gois *et al*. (2017) | 35 | Above maintenance | Feedlot | Intact males | Crossbred |
| Pereira *et al*. (2017) | 9 | High | Feedlot | Intact males/  Castrated males | Santa Ines |
| 10 | Intermediary |
| 10 | Maintenance |
| Pereira *et al*. (2018a) | 11 | High | Feedlot | Intact males/  Castrated males/Females | Morada Nova |
| 12 | Intermediary |
| 12 | Maintenance |
| Pereira *et al*. (2018b) | 30 | Above maintenance | Feedlot | Intact males | Crossbred |
| Brito Neto (2020) | 24 | Above maintenance | Feedlot | Intact males | Santa Ines |

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| **Table S1.**Continued | | | | | |
| Mendes *et al*. (2021) | 10 | High | Feedlot | Intact males | ½ Dorper × ½ Santa Ines |
| 10 | Intermediary |
| 10 | Maintenance |
| Silva *et al*. (2021) | 27 | Above maintenance | Feedlot | Intact males | Crossbred |
| Rocha (2022) | 24 | Above maintenance | Feedlot | Intact males | Santa Ines/  Morada Nova |
| A. C. Rocha (Unpublished data) | 6 | High | Feedlot | Intact males | Santa Ines/  Morada Nova |
| 6 | Intermediary |
| 6 | Low |
| 6 | Maintenance |
| A. S. Brito Neto (Unpublished data) | 12 | High | Feedlot | Females | Santa Ines |
| 12 | Intermediary |
| 12 | Maintenance |
| C. J. L. Herbster (Unpublished data) | 8 | High | Feedlot | Females | ½ Dorper × ½ Santa Ines |
| 8 | Intermediary |
| 8 | Maintenance |