

# ADDITIONAL FILE 1

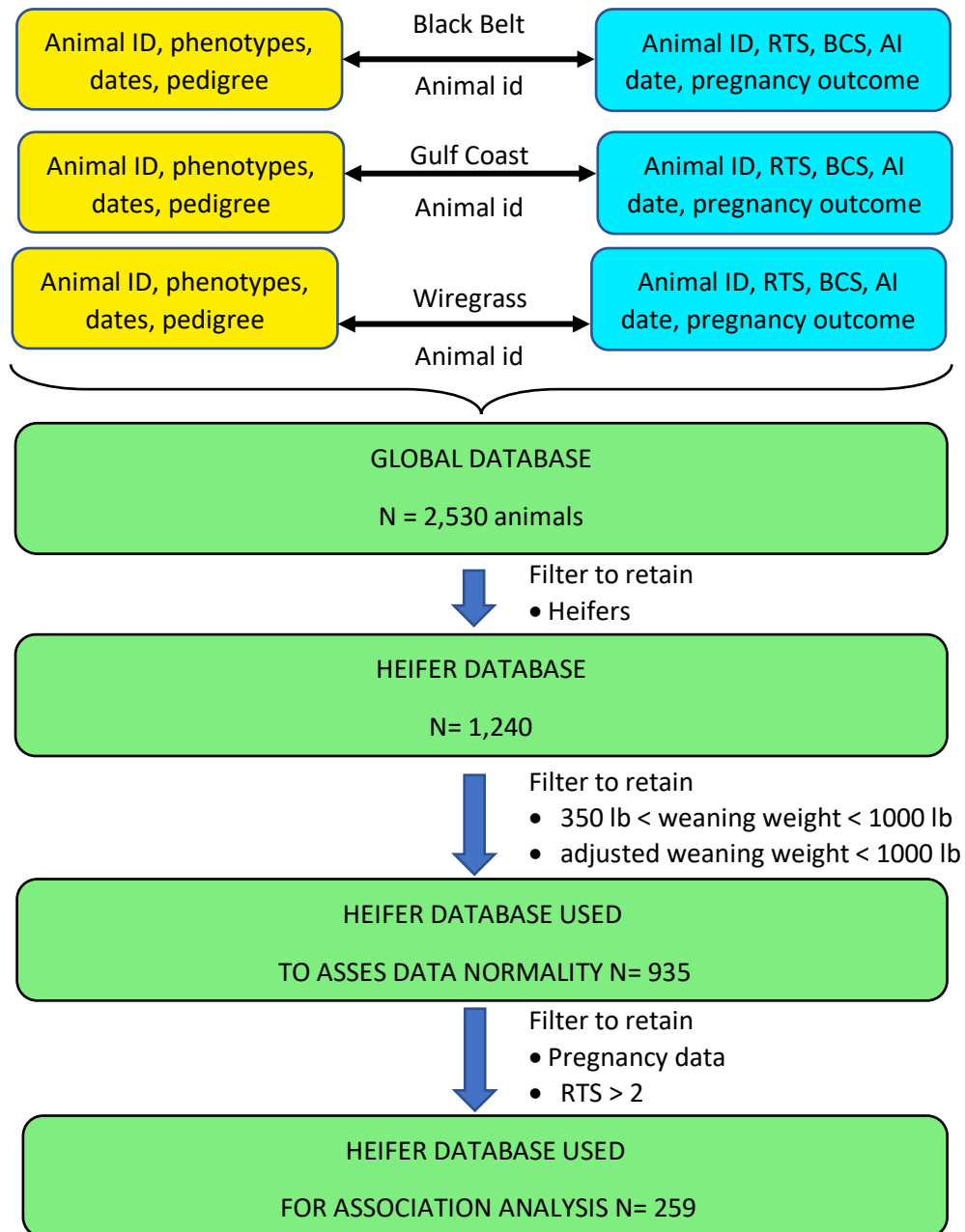


Figure S1. Schematics of the databases and filtering used in the current study.

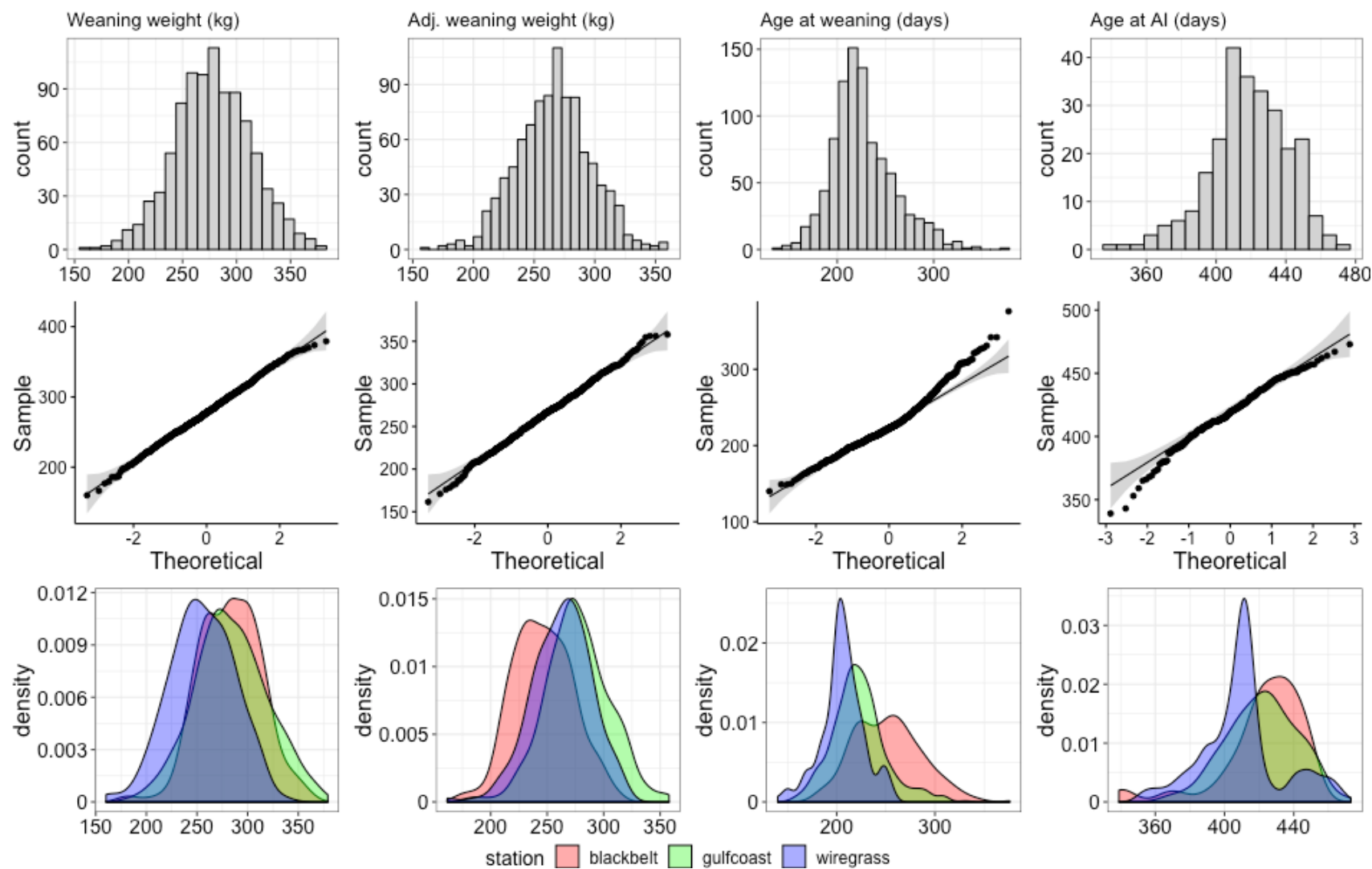


Figure S2. Distribution of the continuous variables investigated.

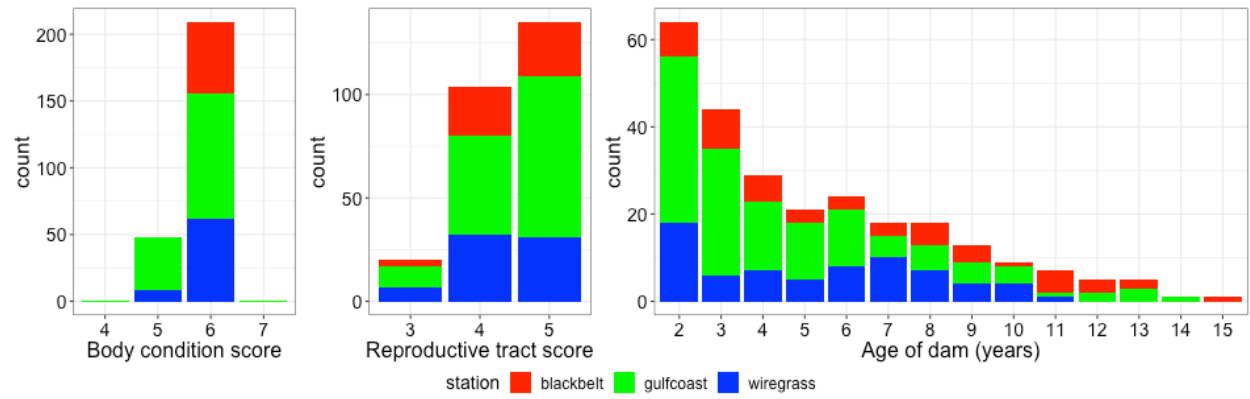


Figure S3. Distribution of the discrete variables investigated in this study.

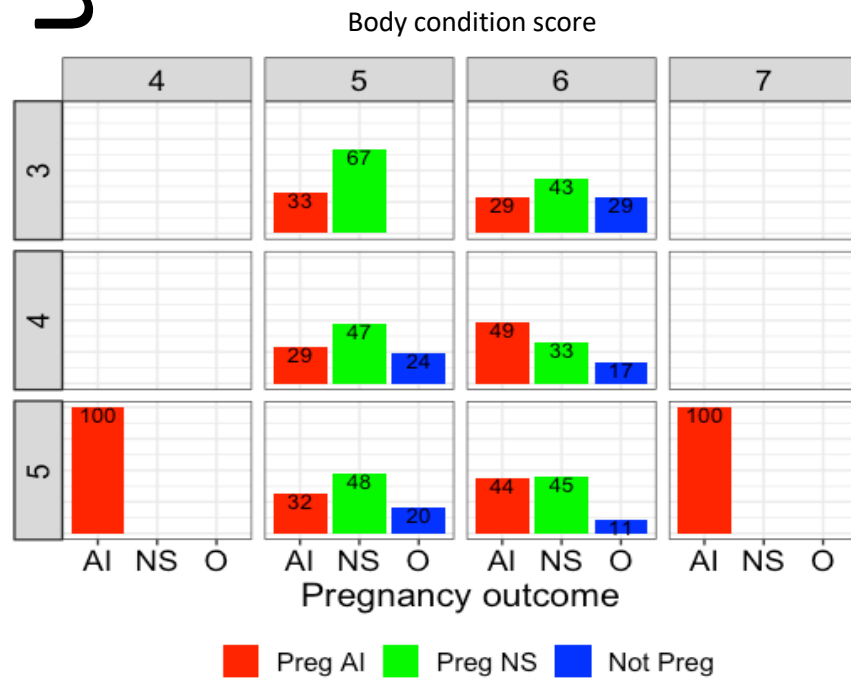


Figure S4. Percentages of reproductive outcome within different groups of beef heifers categorized by body condition score and reproductive tract score.

Table S1. Percentages of the heifers distributed on different categories of BCS and RTS.

|     |   | RTS |      |      |
|-----|---|-----|------|------|
|     |   | 3   | 4    | 5    |
| BCS | 4 | 0.0 | 0.0  | 0.4  |
|     | 5 | 2.3 | 6.6  | 9.7  |
|     | 6 | 5.4 | 33.6 | 41.7 |
|     | 7 | 0.0 | 0.0  | 0.4  |

Table S2. Stepwise assessment of the model utilized in our study by Akaike Information Criterion (AIC).

| Step             | Df | Deviance | RDf | RDev   | AIC    |
|------------------|----|----------|-----|--------|--------|
|                  |    |          | 225 | 451.61 | 519.61 |
| - BCS            | 6  | 3.41     | 231 | 455.01 | 511.01 |
| - RTS            | 4  | 2.03     | 235 | 457.04 | 505.04 |
| - Weaning weight | 2  | 0.21     | 237 | 457.25 | 501.25 |
| - Age at weaning | 2  | 0.45     | 239 | 457.70 | 497.70 |
| - Age at AI      | 2  | 0.25     | 241 | 457.95 | 493.95 |

Df: Degrees of freedom; RDf: Residual Degree of freedom, RDev: Residual Deviance