Table S5. Manure parameters.

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| **Parameter** | **Value** | **Unit** |
| 5.1 Fractional emission rate of inorganic N after excretion (fE) | 0.16 | g g–1 |
| 5.2 Fractional emission rate of inorganic N during storage (fS) | 0.35 | g g–1 |
| 5.3 Fractional emission rate of inorganic N after application (fA) | 0.40 | g kg–1 |
| 5.4 Supply of wheat straw for bedding (SBED) | 5 | kg LU–1 |
| 5.5 Maximum absorption of inorganic N by bedding (ABED) | 15.0 | g N kg–1 DM |
| 5.6 Carbon content of wheat straw | 448 | g C kg–1 DM |
| 5.7 Nitrogen content of wheat straw | 5.5 | g N kg–1 DM |
| 5.8 Proportionality constant of manure degradability and feed digestibility (gM) | 0.5 | - |