**Methane emission by camelids – Supporting Information**

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**Table S1. Dataset including the literature data used for statistical comparison of camelids and ruminants.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Species** | **Source** | **BM** | **CH4** | | | |
|  |  | **kg** | **l d-1** | **l kg-1 DMI** | **l kg-1 dNDF** | **% DEI** |
| **Camelids** |  |  |  |  |  |  |
| *Vicugna pacos* | [1] \* | 42.0 | 2.5 | 4.2 | 20.2 | 1.6 |
| *Vicugna pacos* | [2] \* | 48.0 | 2.9 | 5.7 | 24.6 |  |
| *Vicugna pacos* | [3] \* | 63.3 | 20.8 | 24.7 | 130.9 |  |
| *Vicugna pacos* | [4] | 64.0 | 22.4 | 22.4 |  |  |
| *Lama glama* | [5] \* | 64.0 | 51.6 | 32.1 | 77.1 |  |
| *Lama glama* | [6] | 100.8 | 33.7 | 28.5 | 81.1 | 12.6 |
| *Camelus dromedarius* | [7] \* | 330.0 | 69.7 | 15.9 |  |  |
| **Ruminants** |  |  |  |  |  |  |
| *Capra hircus* | [8] | 32.5 | 17.2 | 19.0 |  | 8.9 |
| *Capra hircus* | [9] | 33.3 | 22.9 | 23.1 |  | 8.6 |
| *Capra hircus* | [10] | 33.5 | 26.2 | 40.4 |  | 13.3 |
| *Capra hircus* | [11] | 37.3 | 16.3 | 21.4 |  | 7.9 |
| *Capra hircus* | [12] | 40.0 | 14.8 | 22.1 |  |  |
| *Capra hircus* | [13] | 60.0 | 40.0 |  |  | 13.2 |
| *Capra hircus* | [13] | 100.0 | 67.0 |  |  | 13.2 |
| *Ovis aries* | [14] | 26.2 | 19.5 | 31.1 | 82.8 | 13.8 |
| *Ovis aries* | [13] | 27.0 | 23.0 |  |  | 11.0 |
| *Ovis aries* | [15] | 32.4 | 21.6 | 27.3 |  |  |
| *Ovis aries* | [16] | 33.7 | 25.1 | 26.1 | 77.3 | 7.5 |
| *Ovis aries* | [13] | 37.0 | 34.0 |  |  | 12.0 |
| *Ovis aries* | [17] | 38.6 | 25.7 | 29.8 |  |  |
| *Ovis aries* | [18] | 39.9 | 21.5 |  |  |  |
| *Ovis aries* | [18] | 40.0 | 15.1 |  |  |  |
| *Ovis aries* | [19] | 40.3 | 24.4 | 31.8 |  |  |
| *Ovis aries* | [18] | 42.2 | 14.5 |  |  |  |
| *Ovis aries* | [20] | 43.0 | 18.0 | 18.8 |  |  |
| *Ovis aries* | [21] | 43.6 | 22.3 | 24.3 |  |  |
| *Ovis aries* | [18] | 44.0 | 23.6 |  |  |  |
| *Ovis aries* | [22] | 45.3 | 34.2 | 31.1 |  |  |
| *Ovis aries* | [19] | 46.9 | 27.1 | 29.3 |  |  |
| *Ovis aries* | [18] | 47.2 | 27.5 |  |  |  |
| *Ovis aries* | [19] | 48.2 | 23.9 | 22.5 |  |  |
| *Ovis aries* | [18] | 58.1 | 32.5 |  |  |  |
| *Ovis aries* | [18] | 58.7 | 12.4 |  |  |  |
| *Ovis aries* | [23] | 58.8 | 50.6 | 31.6 |  | 11.9 |
| *Ovis aries* | [19] | 59.2 | 29.0 | 23.1 |  |  |
| *Ovis aries* | [21] | 59.7 | 24.2 | 27.1 |  |  |
| *Ovis aries* | [13] | 60.0 | 36.0 |  |  | 13.2 |

**Table S1. continued**.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Species** | **Source** | **BM** | **CH4** | | | |
|  |  | **kg** | **l d-1** | **l kg-1 DMI** | **l kg-1 dNDF** | **% DEI** |
| *Ovis aries* | [6] | 65.1 | 33.4 | 28.9 | 84.8 | 13.4 |
| *Ovis aries* | [21] | 67.4 | 27.2 | 25.2 |  |  |
| *Ovis aries* | [21] | 72.6 | 28.9 | 22.4 |  |  |
| *Ovis aries* | [24] | 90.6 | 28.1 | 34.4 | 106.8 | 15.8 |
| *Ovis aries* | [24] | 92.7 | 33.7 | 24.8 | 76.3 | 10.0 |
| *Ovis aries* | [24] | 98.7 | 29.1 | 21.6 | 93.0 | 11.0 |
| *Ovis aries* | [13] | 110.0 | 57.0 |  |  | 13.2 |
| *Bos indicus* | [25] | 358.5 | 258.4 | 48.5 | 103.3 | 20.0 |
| *Bos taurus* | [26] | 272.0 | 155.4 | 32.0 |  | 11.2 |
| *Bos taurus* | [26] | 302.0 | 166.6 | 30.5 |  | 10.6 |
| *Bos taurus* | [27] | 545.5 | 415.0 | 27.6 | 56.2 | 7.7 |
| *Bos taurus* | [28] | 606.0 | 354.2 | 24.8 |  |  |
| *Bos taurus* | [28] | 606.0 | 385.5 | 27.1 |  |  |
| *Bos taurus* | [28] | 606.0 | 435.8 | 29.1 |  |  |
| *Bos taurus* | [28] | 606.0 | 469.2 | 31.7 |  |  |
| *Bos taurus* | [18] | 610.0 | 279.3 |  |  |  |
| *Bos taurus* | [29] | 611.0 | 451.2 | 33.4 | 59.2 | 10.6 |
| *Bos taurus* | [30] | 649.0 | 472.1 | 35.0 | 65.6 | 12.1 |

Values are ordered by species and body mass. Empty cells indicate that the corresponding data were not available from that source. Note that in many cases not all available data were taken from the respective publication, but only those measurements that were obtained with roughage-only diets. Values indicated with asterisks were not included in the analysis as animals were not kept on a roughage-only diet or methane measurements were not carried out by respirometry. BM body mass; DMI dry matter intake; dNDF digestible neutral detergent fiber; DEI digestible energy intake.

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