The green, blue and grey water footprint of farm animals and animal products

Volume 2: Appendices

Value of Water Research Report Series No. 48
THE GREEN, BLUE AND GREY WATER FOOTPRINT
OF FARM ANIMALS AND ANIMAL PRODUCTS

VOLUME 2: APPENDICES

M.M. MEKONNEN¹
A.Y. HOEKSTRA¹,²

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¹ Twente Water Centre, University of Twente, Enschede, The Netherlands
² Contact author: Arjen Hoekstra, a.y.hoekstra@utwente.nl
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<tr>
<th>Animal category</th>
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**Note:** The output weight refers to the weight of carcass (for beef cattle, broiler chicken, pig, sheep and goat), weight of milk (for dairy cattle) or weight of eggs (for layer chicken).
### Appendix II: Estimated consumption of feed per animal category and world region (10³ ton dry mass/yr)

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### Appendix III. Estimated consumption of feed per production system and world region (10^3 ton dry mass/yr)

#### Global consumption of concentrate feed and roughages, per production system and region (10^3 ton dry mass/yr).

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# Appendix IV. Drinking and service water footprint per animal

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<th>Service water (litre/day)</th>
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Note: grazing and industrial drinking and service water footprint from Chapagain and Hoekstra (2003). For mixed production system an average is used.
## Appendix V. Water footprint of animal products (m³/ton). Period 1996-2005

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<th>Weighted Average</th>
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<th>Weighted Average</th>
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Appendix V - 30
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|------|---------|-------|------------|------------------|---------|-------|------------|------------------|---------|-------|------------|------------------|---------|-------|------------|------------------|---------|-------|------------|------------------|---------|-------|------------|------------------|
| 2007 |         |       |            |                  |         |       |            |                  |         |       |            |                  |         |       |            |                  |         |       |            |                  |
| 2008 |         |       |            |                  |         |       |            |                  |         |       |            |                  |         |       |            |                  |         |       |            |                  |
| 2009 |         |       |            |                  |         |       |            |                  |         |       |            |                  |         |       |            |                  |         |       |            |                  |
| 2010 |         |       |            |                  |         |       |            |                  |         |       |            |                  |         |       |            |                  |         |       |            |                  |
| 2011 |         |       |            |                  |         |       |            |                  |         |       |            |                  |         |       |            |                  |         |       |            |                  |
| 2012 |         |       |            |                  |         |       |            |                  |         |       |            |                  |         |       |            |                  |         |       |            |                  |
| 2013 |         |       |            |                  |         |       |            |                  |         |       |            |                  |         |       |            |                  |         |       |            |                  |
| 2014 |         |       |            |                  |         |       |            |                  |         |       |            |                  |         |       |            |                  |         |       |            |                  |
| 2015 |         |       |            |                  |         |       |            |                  |         |       |            |                  |         |       |            |                  |         |       |            |                  |
| 2016 |         |       |            |                  |         |       |            |                  |         |       |            |                  |         |       |            |                  |         |       |            |                  |
| 2017 |         |       |            |                  |         |       |            |                  |         |       |            |                  |         |       |            |                  |         |       |            |                  |
| 2018 |         |       |            |                  |         |       |            |                  |         |       |            |                  |         |       |            |                  |         |       |            |                  |
| 2019 |         |       |            |                  |         |       |            |                  |         |       |            |                  |         |       |            |                  |         |       |            |                  |
| 2020 |         |       |            |                  |         |       |            |                  |         |       |            |                  |         |       |            |                  |         |       |            |                  |
| 2021 |         |       |            |                  |         |       |            |                  |         |       |            |                  |         |       |            |                  |         |       |            |                  |
| 2022 |         |       |            |                  |         |       |            |                  |         |       |            |                  |         |       |            |                  |         |       |            |                  |
| 2023 |         |       |            |                  |         |       |            |                  |         |       |            |                  |         |       |            |                  |         |       |            |                  |
| 2024 |         |       |            |                  |         |       |            |                  |         |       |            |                  |         |       |            |                  |         |       |            |                  |
| 2025 |         |       |            |                  |         |       |            |                  |         |       |            |                  |         |       |            |                  |         |       |            |                  |
| 2026 |         |       |            |                  |         |       |            |                  |         |       |            |                  |         |       |            |                  |         |       |            |                  |
| 2027 |         |       |            |                  |         |       |            |                  |         |       |            |                  |         |       |            |                  |         |       |            |                  |
| 2028 |         |       |            |                  |         |       |            |                  |         |       |            |                  |         |       |            |                  |         |       |            |                  |

Appendix V - 31
<p>| Area/PLU/Parcel | 03/11 | 03/12 | 03/13 | 03/14 | 03/15 | 03/16 | 03/17 | 03/18 | 03/19 | 03/20 | 03/21 | 03/22 | 03/23 | 03/24 | 03/25 | 03/26 | 03/27 | 03/28 | 03/29 | 03/30 | 03/31 | 03/01 | 03/02 | 03/03 | 03/04 | 03/05 | 03/06 | 03/07 | 03/08 | 03/09 | 03/10 | 03/11 | 03/12 | 03/13 | 03/14 | 03/15 | 03/16 | 03/17 | 03/18 | 03/19 | 03/20 | 03/21 | 03/22 | 03/23 | 03/24 | 03/25 | 03/26 | 03/27 | 03/28 | 03/29 | 03/30 | 03/31 | 04/01 | 04/02 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Grazing Mixed Industrial Weighted | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |</p>
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|--------------|--------|----------|----------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| Greece       | 954    | 1965     | 1476           | 5691                            | 6269                            | 6269                            | 6269                            | 6269                            | 6269                            | 6269                            | 6269                            | 6269                            | 6269                            | 6269                            | 6269                            | 6269                            | 6269                            | 6269                            | 6269                            |
| Ethiopia     | 920    | 1543     | 1641           | 5544                            | 6008                            | 6008                            | 6008                            | 6008                            | 6008                            | 6008                            | 6008                            | 6008                            | 6008                            | 6008                            | 6008                            | 6008                            | 6008                            | 6008                            | 6008                            |
| Fijian Islands | 918    | 1517     | 1619           | 5432                            | 5984                            | 5984                            | 5984                            | 5984                            | 5984                            | 5984                            | 5984                            | 5984                            | 5984                            | 5984                            | 5984                            | 5984                            | 5984                            | 5984                            | 5984                            |
| Fijian Islands Weighted Average | 915    | 1513     | 1615           | 5429                            | 5979                            | 5979                            | 5979                            | 5979                            | 5979                            | 5979                            | 5979                            | 5979                            | 5979                            | 5979                            | 5979                            | 5979                            | 5979                            | 5979                            | 5979                            |
| Fijian Islands Weighted Average | 914    | 1512     | 1614           | 5427                            | 5974                            | 5974                            | 5974                            | 5974                            | 5974                            | 5974                            | 5974                            | 5974                            | 5974                            | 5974                            | 5974                            | 5974                            | 5974                            | 5974                            | 5974                            |
| Fijian Islands Weighted Average | 913    | 1511     | 1613           | 5425                            | 5969                            | 5969                            | 5969                            | 5969                            | 5969                            | 5969                            | 5969                            | 5969                            | 5969                            | 5969                            | 5969                            | 5969                            | 5969                            | 5969                            | 5969                            |
| Fijian Islands Weighted Average | 912    | 1510     | 1612           | 5423                            | 5964                            | 5964                            | 5964                            | 5964                            | 5964                            | 5964                            | 5964                            | 5964                            | 5964                            | 5964                            | 5964                            | 5964                            | 5964                            | 5964                            | 5964                            |
| Fijian Islands Weighted Average | 911    | 1509     | 1611           | 5420                            | 5959                            | 5959                            | 5959                            | 5959                            | 5959                            | 5959                            | 5959                            | 5959                            | 5959                            | 5959                            | 5959                            | 5959                            | 5959                            | 5959                            | 5959                            |
| Fijian Islands Weighted Average | 910    | 1508     | 1610           | 5418                            | 5954                            | 5954                            | 5954                            | 5954                            | 5954                            | 5954                            | 5954                            | 5954                            | 5954                            | 5954                            | 5954                            | 5954                            | 5954                            | 5954                            | 5954                            |
| Fijian Islands Weighted Average | 909    | 1507     | 1609           | 5415                            | 5949                            | 5949                            | 5949                            | 5949                            | 5949                            | 5949                            | 5949                            | 5949                            | 5949                            | 5949                            | 5949                            | 5949                            | 5949                            | 5949                            | 5949                            |
| Fijian Islands Weighted Average | 908    | 1506     | 1608           | 5412                            | 5944                            | 5944                            | 5944                            | 5944                            | 5944                            | 5944                            | 5944                            | 5944                            | 5944                            | 5944                            | 5944                            | 5944                            | 5944                            | 5944                            | 5944                            |
| Fijian Islands Weighted Average | 907    | 1505     | 1607           | 5409                            | 5939                            | 5939                            | 5939                            | 5939                            | 5939                            | 5939                            | 5939                            | 5939                            | 5939                            | 5939                            | 5939                            | 5939                            | 5939                            | 5939                            | 5939                            |
| Fijian Islands Weighted Average | 906    | 1504     | 1606           | 5406                            | 5934                            | 5934                            | 5934                            | 5934                            | 5934                            | 5934                            | 5934                            | 5934                            | 5934                            | 5934                            | 5934                            | 5934                            | 5934                            | 5934                            | 5934                            |
| Fijian Islands Weighted Average | 905    | 1503     | 1605           | 5403                            | 5929                            | 5929                            | 5929                            | 5929                            | 5929                            | 5929                            | 5929                            | 5929                            | 5929                            | 5929                            | 5929                            | 5929                            | 5929                            | 5929                            | 5929                            |
| Fijian Islands Weighted Average | 904    | 1502     | 1604           | 5400                            | 5924                            | 5924                            | 5924                            | 5924                            | 5924                            | 5924                            | 5924                            | 5924                            | 5924                            | 5924                            | 5924                            | 5924                            | 5924                            | 5924                            | 5924                            |
| Fijian Islands Weighted Average | 903    | 1501     | 1603           | 5397                            | 5919                            | 5919                            | 5919                            | 5919                            | 5919                            | 5919                            | 5919                            | 5919                            | 5919                            | 5919                            | 5919                            | 5919                            | 5919                            | 5919                            | 5919                            |
| Fijian Islands Weighted Average | 902    | 1500     | 1602           | 5394                            | 5914                            | 5914                            | 5914                            | 5914                            | 5914                            | 5914                            | 5914                            | 5914                            | 5914                            | 5914                            | 5914                            | 5914                            | 5914                            | 5914                            | 5914                            |
| Fijian Islands Weighted Average | 901    | 1499     | 1601           | 5391                            | 5909                            | 5909                            | 5909                            | 5909                            | 5909                            | 5909                            | 5909                            | 5909                            | 5909                            | 5909                            | 5909                            | 5909                            | 5909                            | 5909                            | 5909                            |
| Fijian Islands Weighted Average | 900    | 1498     | 1600           | 5388                            | 5904                            | 5904                            | 5904                            | 5904                            | 5904                            | 5904                            | 5904                            | 5904                            | 5904                            | 5904                            | 5904                            | 5904                            | 5904                            | 5904                            | 5904                            |

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**Note:** This table represents a summary of various economic indicators for the selected countries. The data includes population, GDP (PPP) in US$, and major economic sectors such as agriculture, manufacturing, construction, and service industries. The specific values for each category are provided in the table format.
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Appendix V - 54
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|------------|-------------|----------|---------|-------|------------|------------------|---------|-------|------------|------------------|---------|-------|------------|------------------|---------|-------|------------|------------------|---------|-------|------------|------------------|---------|-------|------------|------------------|---------|-------|------------|------------------|
| Appendix   |             |          |         |       |            |                  |         |       |            |                  |         |       |            |                  |         |       |            |                  |         |       |            |                  |         |       |            |                  |

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Appendix V - 76
| Country         | Portugal | Spain | France | Germany | Italy   | Austria | Russia | Russian Federation | Turkey | Ukraine | Malaysia | Indonesia | Philippines | Vietnam | South Africa | India | China | Japan | Singapore | Others | Total |
|----------------|----------|-------|--------|---------|---------|---------|--------|-------------------|--------|---------|---------|-----------|------------|----------|---------|----------------|------|--------|-------|----------|--------|-------|
|                | Grazing  | Mixed | Industrial | Grazing  | Mixed | Industrial | Grazing  | Mixed | Industrial | Grazing  | Mixed | Industrial | Grazing  | Mixed | Industrial | Grazing  | Mixed | Industrial | Grazing  | Mixed | Industrial | Grazing  | Mixed | Industrial | Grazing  | Mixed | Industrial |
|                | 1.15    | 1.26  | 1.19    | 1.27    | 1.14    | 1.23    | 1.27    | 1.14    | 1.24    | 1.18    | 1.22    | 1.21    | 1.20    | 1.19    | 1.21    | 1.19    | 1.21    | 1.20    | 1.19    | 1.21    | 1.19    | 1.21    | 1.20    | 1.19    | 1.21    | 1.19    | 1.21    | 1.20    | 1.19    | 1.21    | 1.19    | 1.21    | 1.56    | 1.38    | 0.89    |
| 2015           | 1.19    | 1.23  | 1.17    | 1.28    | 1.20    | 1.22    | 1.27    | 1.15    | 1.25    | 1.18    | 1.22    | 1.20    | 1.19    | 1.19    | 1.22    | 1.18    | 1.21    | 1.19    | 1.21    | 1.19    | 1.21    | 1.19    | 1.21    | 1.19    | 1.21    | 1.19    | 1.21    | 1.19    | 1.21    | 1.19    | 1.21    | 1.56    | 1.38    | 0.89    |
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| 2017           | 1.18    | 1.22  | 1.18    | 1.25    | 1.21    | 1.22    | 1.26    | 1.16    | 1.27    | 1.18    | 1.22    | 1.20    | 1.19    | 1.19    | 1.22    | 1.18    | 1.21    | 1.18    | 1.21    | 1.17    | 1.21    | 1.18    | 1.21    | 1.18    | 1.21    | 1.18    | 1.21    | 1.18    | 1.21    | 1.18    | 1.21    | 1.56    | 1.38    | 0.89    |

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Appendix V - 88
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|-----------------------------|----------|--------|---------|---------|---------|---------|---------|-----------|------------|-------------|-----------|-----------|-----------|-----------|-----------|------------------------|--------------|-------------|---------|--------|------------|-----------------------|-----------|-----------------|---------|--------|-----------|-------------|---------|-----------|--------|---------|</p>
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Appendix V - 92
<p>| All-Petrol Gases | Natural Gas | Liquefied Petroleum Gases | All-Diesel Gases | Fuel Oil | Total Fuels | Gas Oil | Total Fuels | Gas Oil | Total Fuels | Gas Oil | Total Fuels | Gas Oil | Total Fuels | Gas Oil | Total Fuels | Gas Oil | Total Fuels | Gas Oil | Total Fuels | Gas Oil | Total Fuels | Gas Oil | Total Fuels |
|-----------------|------------|---------------------------|-----------------|---------|------------|--------|------------|--------|------------|--------|------------|--------|------------|--------|------------|--------|------------|--------|------------|--------|------------|--------|------------|--------|------------|
| <strong>Concentration</strong> | <strong>%</strong> | <strong>%</strong> | <strong>%</strong> | <strong>%</strong> | <strong>%</strong> | <strong>%</strong> | <strong>%</strong> | <strong>%</strong> | <strong>%</strong> | <strong>%</strong> | <strong>%</strong> | <strong>%</strong> | <strong>%</strong> | <strong>%</strong> | <strong>%</strong> | <strong>%</strong> | <strong>%</strong> | <strong>%</strong> | <strong>%</strong> | <strong>%</strong> | <strong>%</strong> | <strong>%</strong> | <strong>%</strong> |
| <strong>Total</strong> | | | | | | | | | | | | | | | | | | | | | | | | |
| <strong>Gaseous</strong> | | | | | | | | | | | | | | | | | | | | | | | | |
| <strong>Mixed</strong> | | | | | | | | | | | | | | | | | | | | | | | | |
| <strong>Industrial</strong> | | | | | | | | | | | | | | | | | | | | | | | | |
| <strong>Naphtha</strong> | | | | | | | | | | | | | | | | | | | | | | | | |
| <strong>Total</strong> | | | | | | | | | | | | | | | | | | | | | | | | |
| <strong>Gasoline</strong> | | | | | | | | | | | | | | | | | | | | | | | | |
| <strong>Methanol</strong> | | | | | | | | | | | | | | | | | | | | | | | | |
| <strong>Ethanol</strong> | | | | | | | | | | | | | | | | | | | | | | | | |
| <strong>Total</strong> | | | | | | | | | | | | | | | | | | | | | | | | |
| <strong>Liquefied Petroleum Gases</strong> | | | | | | | | | | | | | | | | | | | | | | | | |
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| <strong>Total</strong> | | | | | | | | | | | | | | | | | | | | | | | | |
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| <strong>Ethanol</strong> | | | | | | | | | | | | | | | | | | | | | | | | |
| <strong>Total</strong> | | | | | | | | | | | | | | | | | | | | | | | | |
| <strong>Total Fuels</strong> | | | | | | | | | | | | | | | | | | | | | | | | |
| <strong>Gas Oil</strong> | | | | | | | | | | | | | | | | | | | | | | | | |
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