**Evaluation of trace element status of organic dairy cattle**

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|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Herd |  | winter |  | summer |
|  |  | DMI | Alfalfa | Pasture | Hay | Concentrate | Grass silage | Corn silage |  | DMI | Alfalfa | Pasture | Hay | Concentrate | Grass silage | Corn silage |
| 1 | CON† | 22.3 | 10 | 0 | 0 | 37 | 11 | 42 |  | 21.9 | 11 | 0 | 0 | 35 | 15 | 39 |
| 2 | CON† | 20.4 | 0 | 0 | 0 | 31 | 21 | 48 |  | 17.9 | 0 | 0 | 0 | 20 | 26 | 54 |
| 3 | CON† | 23.5 | 0 | 0 | 0 | 39 | 61 | 0 |  | 17.3 | 0 | 0 | 48 | 52 | 0 | 0 |
| 4 | CON† | 24.0 | 7 | 0 | 0 | 37 | 8 | 46 |  | 21.0 | 0 | 0 | 0 | 30 | 11 | 59 |
| 5 | CON† | 24.7 | 8 | 0 | 0 | 38 | 8 | 47 |  | 26.5 | 9 | 0 | 0 | 40 | 12 | 40 |
| 6 | CON | 23.7 | 0 | 46 | 0 | 54 | 0 | 0 |  | 15.9 | 0 | 67 | 0 | 33 | 0 | 0 |
| 7 | CON | 20.3 | 0 | 18 | 5 | 23 | 38 | 17 |  | 23.6 | 0 | 22 | 4 | 25 | 17 | 31 |
| 8 | CON | 18.1 | 0 | 10 | 0 | 28 | 33 | 30 |  | 21.7 | 0 | 42 | 0 | 23 | 12 | 23 |
| 9 | CON | 23.5 | 0 | 60 | 0 | 21 | 19 | 0 |  | 22.4 | 0 | 70 | 3 | 16 | 11 | 0 |
| 10 | CON | 19.5 | 0 | 4 | 0 | 37 | 29 | 30 |  | 21.1 | 0 | 15 | 0 | 34 | 12 | 39 |
| 11 | ORG | 15.8 | 0 | 36 | 14 | 26 | 24 | 0 |  | 19.4 | 0 | 63 | 4 | 11 | 14 | 9 |
| 12 | ORG | 15.7 | 4 | 21 | 0 | 8 | 31 | 37 |  | 17.1 | 0 | 76 | 5 | 11 | 0 | 8 |
| 13 | ORG | 21.0 | 0 | 15 | 16 | 20 | 50 | 0 |  | 17.4 | 0 | 70 | 7 | 23 | 0 | 0 |
| 14 | ORG | 18.6 | 18 | 63 | 0 | 10 | 9 | 0 |  | 19.6 | 9 | 63 | 8 | 9 | 12 | 0 |
| 15 | ORG | 17.3 | 0 | 0 | 10 | 21 | 42 | 27 |  | 20.3 | 0 | 23 | 8 | 18 | 30 | 21 |
| 16 | ORG | 18.9 | 0 | 28 | 0 | 13 | 43 | 16 |  | 23.0 | 0 | 69 | 0 | 17 | 0 | 14 |
| 17 | ORG | 15.3 | 7 | 33 | 8 | 21 | 32 | 0 |  | 20.5 | 0 | 46 | 12 | 16 | 0 | 26 |
| 18 | ORG | 14.6 | 0 | 41 | 0 | 12 | 46 | 0 |  | 16.3 | 0 | 74 | 15 | 11 | 0 | 0 |
| 19 | ORG | 17.5 | 10 | 32 | 0 | 36 | 21 | 0 |  | 17.6 | 12 | 43 | 10 | 36 | 0 | 0 |
| 20 | ORG | 14.5 | 0 | 15 | 28 | 31 | 26 | 0 |  | 14.9 | 0 | 16 | 6 | 37 | 29 | 12 |
| 21 | ORG | 15.5 | 0 | 0 | 18 | 13 | 13 | 57 |  | 16.6 | 0 | 28 | 17 | 13 | 11 | 32 |
| 22 | ORG | -\* | -\* | -\* | -\* | -\* | -\* | -\* |  | 15.4 | 0 | 0 | 12 | 19 | 69 | 0 |
| 23 | ORG | 16.0 | 35 | 0 | 0 | 17 | 48 | 0 |  | 17.0 | 0 | 13 | 0 | 43 | 26 | 19 |
| 24 | ORG | 22.4 | 0 | 45 | 0 | 22 | 33 | 0 |  | 20.3 | 0 | 56 | 0 | 22 | 22 | 0 |
| 25 | ORG | 17.8 | 0 | 0 | 21 | 17 | 62 | 0 |  | 15.2 | 0 | 77 | 0 | 23 | 0 | 0 |
| 26 | ORG | 15.2 | 0 | 40 | 0 | 14 | 46 | 0 |  | 16.6 | 0 | 70 | 0 | 14 | 16 | 0 |
| 27 | ORG | 15.1 | 0 | 23 | 0 | 18 | 58 | 0 |  | 19.2 | 0 | 86 | 0 | 14 | 0 | 0 |
| 28 | ORG | 15.6 | 0 | 23 | 0 | 35 | 42 | 0 |  | 14.2 | 0 | 30 | 0 | 38 | 32 | 0 |
| 29 | ORG | 17.3 | 16 | 16 | 0 | 26 | 42 | 0 |  | 17.6 | 19 | 9 | 0 | 26 | 47 | 0 |
| 30 | ORG | 16.5 | 0 | 72 | 0 | 6 | 23 | 0 |  | 19.1 | 0 | 67 | 29 | 5 | 0 | 0 |
| 31 | ORG | 13.2 | 33 | 0 | 0 | 24 | 43 | 0 |  | 14.5 | 24 | 15 | 0 | 19 | 42 | 0 |
| 32 | ORG | 14.4 | 39 | 0 | 43 | 19 | 0 | 0 |  | 14.1 | 13 | 26 | 43 | 17 | 0 | 0 |
| Media CON |  | 22.0 | 3 | 14 | 1 | 35 | 32 | 26 |  | 20.9 | 2 | 21 | 5 | 31 | 12 | 28 |
| Media ORG |  | 16.6 | 8 | 24 | 7 | 19 | 35 | 6 |  | 17.6 | 3 | 46 | 8 | 20 | 16 | 6 |

Supplementary Table S1.Detailed information of dietary inquiries in each organic (ORG) and conventional (CON) farm. Data are presented as percentage of each feed material of total dry matter intake (kg DMI).

†Farms with TMR (total mixed ration) \*No sampling performed so this farm was not included in the calculations