## Aluminium (Al)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Animal product** | **Age** | **Kidney** | | | **Liver** | | | **Muscle** | | | **Eggs** | | |
| **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** |
| Cattle | 5 months to 2 years | 138 | 0.08 | 0.18 | 138 | 0.11 | 0.41 | 138 | 0.04 | 0.15 | na | na | na |
| 2 to 4 years | 136 | 0.11 | 0.26 | 136 | 0.16 | 0.54 | 136 | 0.06 | 0.18 | na | na | na |
| greater than 4 years | 136 | 0.10 | 0.23 | 136 | 0.19 | 0.49 | 136 | 0.07 | 0.23 | na | na | na |
| Sheep | less than 12 months | 49 | 0.10 | 0.19 | 49 | 0.14 | 0.26 | 49 | 0.11 | 0.37 | na | na | na |
| 1 to 3 years | 53 | 0.18 | 0.36 | 53 | 0.24 | 0.61 | 53 | 0.07 | 0.19 | na | na | na |
| greater than 3 years | 50 | 0.26 | 0.56 | 50 | 0.29 | 0.93 | 50 | 0.08 | 0.36 | na | na | na |
| Pigs | less than 7 months | 32 | 0.04 | 0.26 | 32 | 0.07 | 0.17 | 32 | 0.02 | 0.12 | na | na | na |
| greater than 7 months | 29 | 0.04 | 0.21 | 29 | 0.12 | 0.45 | 29 | 0.03 | 0.11 | na | na | na |
| Horses | 2 to 5 years | 20 | 0.05 | 0.15 | 20 | 1.20 | 2.20 | 20 | 0.02 | 0.13 | na | na | na |
| 5 to 8 years | 18 | 0.13 | 0.35 | 18 | 0.89 | 2.20 | 18 | 0.08 | 0.32 | na | na | na |
| greater than 8 years | 22 | 0.07 | 0.18 | 22 | 1 | 2.70 | 22 | 0.04 | 0.19 | na | na | na |
| Poultry | 35 to 52 days | na | na | na | 75 | 0.03 | 0.16 | 75 | 0.01 | 0.12 | na | na | na |
| all | na | na | na | na | na | na | na | na | na | 150 | 0.11 | 0.21 |

**Note:** ‘na’ means Not Applicable.

## Antimony (Sb)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Animal product** | **Age** | **Kidney** | | | **Liver** | | | **Muscle** | | | **Eggs** | | |
| **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** |
| Cattle | 5 months to 2 years | 138 | 0 | 0 | 138 | 0 | 0 | 138 | 0 | 0 | na | na | na |
| 2 to 4 years | 136 | 0 | 0 | 136 | 0 | 0 | 136 | 0 | 0 | na | na | na |
| greater than 4 years | 136 | 0 | 0 | 136 | 0 | 0 | 136 | 0 | 0 | na | na | na |
| Sheep | less than 12 months | 49 | 0 | 0 | 49 | 0 | 0 | 49 | 0 | 0 | na | na | na |
| 1 to 3 years | 53 | 0 | 0 | 53 | 0 | 0 | 53 | 0 | 0 | na | na | na |
| greater than 3 years | 50 | 0 | 0 | 50 | 0 | 0 | 50 | 0 | 0 | na | na | na |
| Pigs | less than 7 months | 32 | 0 | 0 | 32 | 0 | 0 | 32 | 0 | 0 | na | na | na |
| greater than 7 months | 29 | 0 | 0 | 29 | 0 | 0 | 29 | 0 | 0 | na | na | na |
| Horses | 2 to 5 years | 20 | 0 | 0 | 20 | 0 | 0 | 20 | 0 | 0 | na | na | na |
| 5 to 8 years | 18 | 0 | 0 | 18 | 0 | 0.01 | 18 | 0 | 0 | na | na | na |
| greater than 8 years | 22 | 0 | 0 | 22 | 0 | 0.01 | 22 | 0 | 0 | na | na | na |
| Poultry | 35 to 52 days | na | na | na | 75 | 0 | 0 | 75 | 0 | 0 | na | na | na |
| all | na | na | na | na | na | na | na | na | na | 150 | 0 | 0 |

**Note:** ‘na’ means Not Applicable.

## Arsenic (As)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Animal product** | **Age** | **Kidney** | | | **Liver** | | | **Muscle** | | | **Eggs** | | |
| **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** |
| Cattle | 5 months to 2 years | 138 | 0 | 0.03 | 138 | 0 | 0.01 | 138 | 0 | 0.01 | na | na | na |
| 2 to 4 years | 136 | 0.01 | 0.04 | 136 | 0 | 0.01 | 136 | 0 | 0.01 | na | na | na |
| greater than 4 years | 136 | 0.01 | 0.03 | 136 | 0 | 0.01 | 136 | 0 | 0.01 | na | na | na |
| Sheep | less than 12 months | 49 | 0 | 0.01 | 49 | 0 | 0 | 49 | 0 | 0.01 | na | na | na |
| 1 to 3 years | 53 | 0 | 0 | 53 | 0 | 0 | 53 | 0 | 0 | na | na | na |
| greater than 3 years | 50 | 0 | 0.01 | 50 | 0 | 0.01 | 50 | 0 | 0 | na | na | na |
| Pigs | less than 7 months | 32 | 0 | 0.03 | 32 | 0 | 0 | 32 | 0 | 0 | na | na | na |
| greater than 7 months | 29 | 0 | 0.02 | 29 | 0 | 0.01 | 29 | 0 | 0 | na | na | na |
| Horses | 2 to 5 years | 20 | 0.01 | 0.01 | 20 | 0 | 0.01 | 20 | 0 | 0.01 | na | na | na |
| 5 to 8 years | 18 | 0.01 | 0.01 | 18 | 0 | 0.01 | 18 | 0 | 0.01 | na | na | na |
| greater than 8 years | 22 | 0.01 | 0.07 | 22 | 0 | 0.07 | 22 | 0 | 0.01 | na | na | na |
| Poultry | 35 to 52 days | na | na | na | 75 | 0.01 | 0.13 | 75 | 0 | 0.01 | na | na | na |
| all | na | na | na | na | na | na | na | na | na | 150 | 0 | 0.01 |

**Note:** ‘na’ means Not Applicable.

## Barium (Ba)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Animal product** | **Age** | **Kidney** | | | **Liver** | | | **Muscle** | | | **Eggs** | | |
| **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** |
| Cattle | 5 months to 2 years | 138 | 0.23 | 0.53 | 138 | 0.02 | 0.04 | 138 | 0.02 | 0.08 | na | na | na |
| 2 to 4 years | 136 | 0.23 | 0.54 | 136 | 0.02 | 0.05 | 136 | 0.01 | 0.04 | na | na | na |
| greater than 4 years | 136 | 0.26 | 0.50 | 136 | 0.02 | 0.07 | 136 | 0.01 | 0.05 | na | na | na |
| Sheep | less than 12 months | 49 | 0.26 | 0.55 | 49 | 0.04 | 0.08 | 49 | 0.01 | 0.02 | na | na | na |
| 1 to 3 years | 53 | 0.32 | 0.69 | 53 | 0.04 | 0.15 | 53 | 0.01 | 0.04 | na | na | na |
| greater than 3 years | 50 | 0.36 | 0.77 | 50 | 0.05 | 0.20 | 50 | 0.02 | 0.07 | na | na | na |
| Pigs | less than 7 months | 32 | 0 | 0.02 | 32 | 0 | 0 | 32 | 0 | 0.01 | na | na | na |
| greater than 7 months | 29 | 0 | 0.01 | 29 | 0 | 0 | 29 | 0 | 0 | na | na | na |
| Horses | 2 to 5 years | 20 | 0.36 | 0.75 | 20 | 0.01 | 0.11 | 20 | 0 | 0.04 | na | na | na |
| 5 to 8 years | 18 | 0.25 | 0.68 | 18 | 0.03 | 0.10 | 18 | 0 | 0.02 | na | na | na |
| greater than 8 years | 22 | 0.28 | 0.70 | 22 | 0.02 | 0.07 | 22 | 0 | 0.02 | na | na | na |
| Poultry | 35 to 52 days | na | na | na | 75 | 0.01 | 0.02 | 75 | 0 | 0.01 | na | na | na |
| all | na | na | na | na | na | na | na | na | na | 150 | 0.45 | 0.60 |

**Note:** ‘na’ means Not Applicable.

## Boron (B)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Animal product** | **Age** | **Kidney** | | | **Liver** | | | **Muscle** | | | **Eggs** | | |
| **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** |
| Cattle | 5 months to 2 years | 138 | 0 | 0.14 | 138 | 0 | 0.10 | 138 | 0 | 0.08 | na | na | na |
| 2 to 4 years | 136 | 0 | 0.15 | 136 | 0 | 0.14 | 136 | 0 | 0.08 | na | na | na |
| greater than 4 years | 136 | 0 | 0.12 | 136 | 0 | 0.11 | 136 | 0 | 0.05 | na | na | na |
| Sheep | less than 12 months | 49 | 0 | 0.10 | 49 | 0 | 0.12 | 49 | 0 | 0.04 | na | na | na |
| 1 to 3 years | 53 | 0 | 0.09 | 53 | 0 | 0.07 | 53 | 0 | 0 | na | na | na |
| greater than 3 years | 50 | 0 | 0.15 | 50 | 0 | 0.15 | 50 | 0 | 0.06 | na | na | na |
| Pigs | less than 7 months | 32 | 0 | 0.08 | 32 | 0.06 | 0.18 | 32 | 0 | 0.06 | na | na | na |
| greater than 7 months | 29 | 0 | 0.18 | 29 | 0.03 | 0.44 | 29 | 0 | 0.06 | na | na | na |
| Horses | 2 to 5 years | 20 | 0 | 0.14 | 20 | 0.18 | 0.57 | 20 | 0.01 | 0.09 | na | na | na |
| 5 to 8 years | 18 | 0.01 | 0.12 | 18 | 0.30 | 1.03 | 18 | 0 | 0.08 | na | na | na |
| greater than 8 years | 22 | 0 | 0.12 | 22 | 0.12 | 0.49 | 22 | 0 | 0.08 | na | na | na |
| Poultry | 35 to 52 days | na | na | na | 75 | 0 | 0.01 | 75 | 0 | 0 | na | na | na |
| all | na | na | na | na | na | na | na | na | na | 150 | 0 | 0.06 |

**Note:** ‘na’ means Not Applicable.

## Cadmium (Cd)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Animal product** | **Age** | **Kidney** | | | **Liver** | | | **Muscle** | | | **Eggs** | | |
| **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** |
| Cattle | 5 months to 2 years | 138 | 0.08 | 0.30 | 138 | 0.02 | 0.07 | 138 | 0 | 0 | na | na | na |
| 2 to 4 years | 136 | 0.14 | 0.61 | 136 | 0.03 | 0.15 | 136 | 0 | 0 | na | na | na |
| greater than 4 years | 136 | 0.30 | 1.48 | 136 | 0.05 | 0.17 | 136 | 0 | 0 | na | na | na |
| Sheep | less than 12 months | 49 | 0.06 | 0.27 | 49 | 0.04 | 0.15 | 49 | 0 | 0 | na | na | na |
| 1 to 3 years | 53 | 0.25 | 2.04 | 53 | 0.09 | 0.59 | 53 | 0 | 0 | na | na | na |
| greater than 3 years | 50 | 0.83 | 4.53 | 50 | 0.15 | 1.32 | 50 | 0 | 0.01 | na | na | na |
| Pigs | less than 7 months | 32 | 0.08 | 0.19 | 32 | 0.01 | 0.03 | 32 | 0 | 0 | na | na | na |
| greater than 7 months | 29 | 0.17 | 0.39 | 29 | 0.03 | 0.07 | 29 | 0 | 0 | na | na | na |
| Horses | 2 to 5 years | 20 | 14.49 | 27.92 | 20 | 2.05 | 3.53 | 20 | 0.03 | 0.10 | na | na | na |
| 5 to 8 years | 18 | 10.71 | 25.63 | 18 | 1.09 | 2.46 | 18 | 0.02 | 0.09 | na | na | na |
| greater than 8 years | 22 | 11.47 | 24.33 | 22 | 1.74 | 4.77 | 22 | 0.03 | 0.06 | na | na | na |
| Poultry | 35 to 52 days | na | na | na | 75 | 0.01 | 0.01 | 75 | 0 | 0 | na | na | na |
| all | na | na | na | na | na | na | na | na | na | 150 | 0 | 0 |

**Note:** ‘na’ means Not Applicable.

## Caesium (Cs)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Animal product** | **Age** | **Kidney** | | | **Liver** | | | **Muscle** | | | **Eggs** | | |
| **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** |
| Cattle | 5 months to 2 years | 138 | 0.01 | 0.08 | 138 | 0.01 | 0.07 | 138 | 0.01 | 0.09 | na | na | na |
| 2 to 4 years | 136 | 0.02 | 0.10 | 136 | 0.01 | 0.07 | 136 | 0.01 | 0.09 | na | na | na |
| greater than 4 years | 136 | 0.01 | 0.07 | 136 | 0.01 | 0.06 | 136 | 0.01 | 0.06 | na | na | na |
| Sheep | less than 12 months | 49 | 0.01 | 0.11 | 49 | 0.01 | 0.08 | 49 | 0.02 | 0.14 | na | na | na |
| 1 to 3 years | 53 | 0.01 | 0.08 | 53 | 0 | 0.03 | 53 | 0.01 | 0.05 | na | na | na |
| greater than 3 years | 50 | 0.01 | 0.06 | 50 | 0.01 | 0.04 | 50 | 0.01 | 0.09 | na | na | na |
| Pigs | less than 7 months | 32 | 0.03 | 0.10 | 32 | 0.02 | 0.07 | 32 | 0.05 | 0.09 | na | na | na |
| greater than 7 months | 29 | 0.02 | 0.05 | 29 | 0.01 | 0.04 | 29 | 0.02 | 0.06 | na | na | na |
| Horses | 2 to 5 years | 20 | 0.01 | 0.03 | 20 | 0.02 | 0.05 | 20 | 0.01 | 0.04 | na | na | na |
| 5 to 8 years | 18 | 0.02 | 0.07 | 18 | 0 | 0.04 | 18 | 0.01 | 0.08 | na | na | na |
| greater than 8 years | 22 | 0.01 | 0.05 | 22 | 0.01 | 0.04 | 22 | 0.01 | 0.06 | na | na | na |
| Poultry | 35 to 52 days | na | na | na | 75 | 0 | 0.01 | 75 | 0.01 | 0.03 | na | na | na |
| all | na | na | na | na | na | na | na | na | na | 150 | 0 | 0.03 |

**Note:** ‘na’ means Not Applicable.

## Calcium (Ca)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Animal product** | **Age** | **Kidney** | | | **Liver** | | | **Muscle** | | | **Eggs** | | |
| **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** |
| Cattle | 5 months to 2 years | 138 | 70.11 | 96.84 | 138 | 34.24 | 44.29 | 138 | 35.66 | 78.84 | na | na | na |
| 2 to 4 years | 136 | 67.94 | 102.72 | 136 | 33.91 | 42.06 | 136 | 31.75 | 58.62 | na | na | na |
| greater than 4 years | 136 | 70.01 | 103.61 | 136 | 35.63 | 50 | 136 | 36.25 | 73.82 | na | na | na |
| Sheep | less than 12 months | 49 | 72.02 | 119.60 | 49 | 42.18 | 49.92 | 49 | 31.11 | 37.91 | na | na | na |
| 1 to 3 years | 53 | 78.69 | 141.49 | 53 | 46.34 | 64.45 | 53 | 32.27 | 40.50 | na | na | na |
| greater than 3 years | 50 | 83.86 | 171.40 | 50 | 42.68 | 85.58 | 50 | 35.12 | 46.66 | na | na | na |
| Pigs | less than 7 months | 32 | 58.76 | 67.02 | 32 | 42.97 | 54.98 | 32 | 34.04 | 43.47 | na | na | na |
| greater than 7 months | 29 | 56.41 | 69.47 | 29 | 43.28 | 54.10 | 29 | 30.74 | 40.56 | na | na | na |
| Horses | 2 to 5 years | 20 | 91.45 | 159.81 | 20 | 36.26 | 72.32 | 20 | 31.86 | 89.23 | na | na | na |
| 5 to 8 years | 18 | 112.87 | 193.63 | 18 | 47.40 | 56.76 | 18 | 34.67 | 116.32 | na | na | na |
| greater than 8 years | 22 | 114 | 214.68 | 22 | 43.07 | 53.87 | 22 | 45.12 | 94.96 | na | na | na |
| Poultry | 35 to 52 days | na | na | na | 75 | 39.70 | 47.93 | 75 | 32.70 | 38.11 | na | na | na |
| all | na | na | na | na | na | na | na | na | na | 150 | 419.32 | 478.21 |

**Note:** ‘na’ means Not Applicable.

## Cerium (Ce)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Animal product** | **Age** | **Kidney** | | | **Liver** | | | **Muscle** | | | **Eggs** | | |
| **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** |
| Cattle | 5 months to 2 years | 138 | 0 | 0 | 138 | 0.01 | 0.02 | 138 | 0 | 0 | na | na | na |
| 2 to 4 years | 136 | 0 | 0.01 | 136 | 0.01 | 0.02 | 136 | 0 | 0 | na | na | na |
| greater than 4 years | 136 | 0 | 0.01 | 136 | 0.01 | 0.04 | 136 | 0 | 0 | na | na | na |
| Sheep | less than 12 months | 49 | 0 | 0.01 | 49 | 0.01 | 0.02 | 49 | 0 | 0 | na | na | na |
| 1 to 3 years | 53 | 0 | 0.01 | 53 | 0.01 | 0.06 | 53 | 0 | 0 | na | na | na |
| greater than 3 years | 50 | 0.01 | 0.02 | 50 | 0.03 | 0.13 | 50 | 0 | 0 | na | na | na |
| Pigs | less than 7 months | 32 | 0 | 0 | 32 | 0 | 0 | 32 | 0 | 0 | na | na | na |
| greater than 7 months | 29 | 0 | 0 | 29 | 0 | 0.01 | 29 | 0 | 0 | na | na | na |
| Horses | 2 to 5 years | 20 | 0.01 | 0.02 | 20 | 0.51 | 1 | 20 | 0 | 0 | na | na | na |
| 5 to 8 years | 18 | 0.01 | 0.02 | 18 | 0.57 | 1.20 | 18 | 0 | 0 | na | na | na |
| greater than 8 years | 22 | 0.01 | 0.02 | 22 | 0.40 | 1.17 | 22 | 0 | 0 | na | na | na |
| Poultry | 35 to 52 days | na | na | na | 75 | 0 | 0 | 75 | 0 | 0 | na | na | na |
| all | na | na | na | na | na | na | na | na | na | 150 | 0 | 0 |

**Note:** ‘na’ means Not Applicable.

## Chromium (Cr)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Animal product** | **Age** | **Kidney** | | | **Liver** | | | **Muscle** | | | **Eggs** | | |
| **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** |
| Cattle | 5 months to 2 years | 138 | 0.03 | 0.05 | 138 | 0.04 | 0.07 | 138 | 0.03 | 0.05 | na | na | na |
| 2 to 4 years | 136 | 0.03 | 0.05 | 136 | 0.04 | 0.06 | 136 | 0.03 | 0.05 | na | na | na |
| greater than 4 years | 136 | 0.03 | 0.05 | 136 | 0.04 | 0.06 | 136 | 0.03 | 0.05 | na | na | na |
| Sheep | less than 12 months | 49 | 0.03 | 0.05 | 49 | 0.05 | 0.06 | 49 | 0.03 | 0.05 | na | na | na |
| 1 to 3 years | 53 | 0.04 | 0.06 | 53 | 0.05 | 0.08 | 53 | 0.03 | 0.06 | na | na | na |
| greater than 3 years | 50 | 0.03 | 0.05 | 50 | 0.05 | 0.07 | 50 | 0.03 | 0.05 | na | na | na |
| Pigs | less than 7 months | 32 | 0.04 | 0.05 | 32 | 0.04 | 0.06 | 32 | 0.03 | 0.05 | na | na | na |
| greater than 7 months | 29 | 0.03 | 0.04 | 29 | 0.05 | 0.06 | 29 | 0.03 | 0.04 | na | na | na |
| Horses | 2 to 5 years | 20 | 0.03 | 0.03 | 20 | 0.05 | 0.07 | 20 | 0.03 | 0.05 | na | na | na |
| 5 to 8 years | 18 | 0.03 | 0.03 | 18 | 0.06 | 0.08 | 18 | 0.03 | 0.04 | na | na | na |
| greater than 8 years | 22 | 0.03 | 0.03 | 22 | 0.05 | 0.09 | 22 | 0.03 | 0.04 | na | na | na |
| Poultry | 35 to 52 days | na | na | na | 75 | 0.05 | 0.09 | 75 | 0.05 | 0.07 | na | na | na |
| all | na | na | na | na | na | na | na | na | na | 150 | 0.01 | 0.03 |

**Note:** ‘na’ means Not Applicable.

## Cobalt (Co)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Animal product** | **Age** | **Kidney** | | | **Liver** | | | **Muscle** | | | **Eggs** | | |
| **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** |
| Cattle | 5 months to 2 years | 138 | 0.03 | 0.04 | 138 | 0.07 | 0.10 | 138 | 0 | 0.01 | na | na | na |
| 2 to 4 years | 136 | 0.03 | 0.05 | 136 | 0.07 | 0.10 | 136 | 0 | 0.01 | na | na | na |
| greater than 4 years | 136 | 0.03 | 0.05 | 136 | 0.07 | 0.12 | 136 | 0 | 0.01 | na | na | na |
| Sheep | less than 12 months | 49 | 0.04 | 0.06 | 49 | 0.05 | 0.07 | 49 | 0 | 0.01 | na | na | na |
| 1 to 3 years | 53 | 0.04 | 0.06 | 53 | 0.06 | 0.08 | 53 | 0 | 0.01 | na | na | na |
| greater than 3 years | 50 | 0.04 | 0.07 | 50 | 0.06 | 0.09 | 50 | 0 | 0.01 | na | na | na |
| Pigs | less than 7 months | 32 | 0.02 | 0.05 | 32 | 0.03 | 0.04 | 32 | 0 | 0 | na | na | na |
| greater than 7 months | 29 | 0.02 | 0.03 | 29 | 0.02 | 0.04 | 29 | 0 | 0 | na | na | na |
| Horses | 2 to 5 years | 20 | 0.03 | 0.05 | 20 | 0.07 | 0.18 | 20 | 0 | 0.01 | na | na | na |
| 5 to 8 years | 18 | 0.03 | 0.08 | 18 | 0.08 | 0.25 | 18 | 0 | 0.01 | na | na | na |
| greater than 8 years | 22 | 0.02 | 0.04 | 22 | 0.05 | 0.10 | 22 | 0 | 0.01 | na | na | na |
| Poultry | 35 to 52 days | na | na | na | 75 | 0.02 | 0.03 | 75 | 0 | 0 | na | na | na |
| all | na | na | na | na | na | na | na | na | na | 150 | 0 | 0.01 |

**Note:** ‘na’ means Not Applicable.

## Copper (Cu)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Animal product** | **Age** | **Kidney** | | | **Liver** | | | **Muscle** | | | **Eggs** | | |
| **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** |
| Cattle | 5 months to 2 years | 138 | 3.31 | 4.01 | 138 | 21.73 | 54.66 | 138 | 0.56 | 1.04 | na | na | na |
| 2 to 4 years | 136 | 3.07 | 3.97 | 136 | 20.16 | 58.22 | 136 | 0.58 | 1.27 | na | na | na |
| greater than 4 years | 136 | 3.08 | 3.79 | 136 | 23.20 | 80.04 | 136 | 0.56 | 0.82 | na | na | na |
| Sheep | less than 12 months | 49 | 2.64 | 3.31 | 49 | 56.46 | 92.26 | 49 | 0.72 | 0.97 | na | na | na |
| 1 to 3 years | 53 | 2.73 | 3.38 | 53 | 65.93 | 110.91 | 53 | 0.72 | 0.97 | na | na | na |
| greater than 3 years | 50 | 2.44 | 3.59 | 50 | 49.60 | 173.53 | 50 | 0.76 | 0.89 | na | na | na |
| Pigs | less than 7 months | 32 | 4.70 | 8.91 | 32 | 7.59 | 24.22 | 32 | 0.57 | 0.78 | na | na | na |
| greater than 7 months | 29 | 6.71 | 12.34 | 29 | 40.71 | 98.32 | 29 | 0.54 | 0.67 | na | na | na |
| Horses | 2 to 5 years | 20 | 4.83 | 6.03 | 20 | 5.79 | 9.66 | 20 | 0.86 | 1.55 | na | na | na |
| 5 to 8 years | 18 | 4.28 | 6.25 | 18 | 5 | 7.80 | 18 | 1.48 | 1.91 | na | na | na |
| greater than 8 years | 22 | 4.50 | 5.91 | 22 | 5.41 | 6.98 | 22 | 1.28 | 1.63 | na | na | na |
| Poultry | 35 to 52 days | na | na | na | 75 | 2.79 | 3.60 | 75 | 0.25 | 0.33 | na | na | na |
| all | na | na | na | na | na | na | na | na | na | 150 | 0.48 | 0.56 |

**Note:** ‘na’ means Not Applicable.

## Gallium (Ga)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Animal product** | **Age** | **Kidney** | | | **Liver** | | | **Muscle** | | | **Eggs** | | |
| **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** |
| Cattle | 5 months to 2 years | 138 | 0.01 | 0.01 | 138 | 0 | 0 | 138 | 0 | 0 | na | na | na |
| 2 to 4 years | 136 | 0.01 | 0.01 | 136 | 0 | 0 | 136 | 0 | 0 | na | na | na |
| greater than 4 years | 136 | 0.01 | 0.01 | 136 | 0 | 0 | 136 | 0 | 0 | na | na | na |
| Sheep | less than 12 months | 49 | 0.01 | 0.01 | 49 | 0 | 0 | 49 | 0 | 0 | na | na | na |
| 1 to 3 years | 53 | 0.01 | 0.01 | 53 | 0 | 0 | 53 | 0 | 0 | na | na | na |
| greater than 3 years | 50 | 0.01 | 0.02 | 50 | 0 | 0.01 | 50 | 0 | 0 | na | na | na |
| Pigs | less than 7 months | 32 | 0 | 0 | 32 | 0 | 0 | 32 | 0 | 0 | na | na | na |
| greater than 7 months | 29 | 0 | 0 | 29 | 0 | 0 | 29 | 0 | 0 | na | na | na |
| Horses | 2 to 5 years | 20 | 0.01 | 0.02 | 20 | 0.01 | 0.01 | 20 | 0 | 0 | na | na | na |
| 5 to 8 years | 18 | 0.01 | 0.02 | 18 | 0.01 | 0.01 | 18 | 0 | 0 | na | na | na |
| greater than 8 years | 22 | 0.01 | 0.02 | 22 | 0 | 0.01 | 22 | 0 | 0 | na | na | na |
| Poultry | 35 to 52 days | na | na | na | 75 | 0 | 0 | 75 | 0 | 0 | na | na | na |
| all | na | na | na | na | na | na | na | na | na | 150 | 0.01 | 0.01 |

**Note:** ‘na’ means Not Applicable.

## Germanium (Ge)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Animal product** | **Age** | **Kidney** | | | **Liver** | | | **Muscle** | | | **Eggs** | | |
| **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** |
| Cattle | 5 months to 2 years | 138 | 0.01 | 0.03 | 138 | 0.01 | 0.04 | 138 | 0.01 | 0.01 | na | na | na |
| 2 to 4 years | 136 | 0.02 | 0.04 | 136 | 0.02 | 0.04 | 136 | 0.01 | 0.02 | na | na | na |
| greater than 4 years | 136 | 0.02 | 0.04 | 136 | 0.02 | 0.04 | 136 | 0.01 | 0.02 | na | na | na |
| Sheep | less than 12 months | 49 | 0.01 | 0.03 | 49 | 0.02 | 0.04 | 49 | 0.01 | 0.01 | na | na | na |
| 1 to 3 years | 53 | 0 | 0.03 | 53 | 0 | 0.05 | 53 | 0 | 0.01 | na | na | na |
| greater than 3 years | 50 | 0.02 | 0.07 | 50 | 0.03 | 0.10 | 50 | 0.01 | 0.02 | na | na | na |
| Pigs | less than 7 months | 32 | 0.01 | 0.02 | 32 | 0.04 | 0.08 | 32 | 0.01 | 0.01 | na | na | na |
| greater than 7 months | 29 | 0.02 | 0.03 | 29 | 0.07 | 0.12 | 29 | 0.01 | 0.01 | na | na | na |
| Horses | 2 to 5 years | 20 | 0.02 | 0.04 | 20 | 0.08 | 0.20 | 20 | 0.01 | 0.02 | na | na | na |
| 5 to 8 years | 18 | 0.03 | 0.04 | 18 | 0.12 | 0.22 | 18 | 0.02 | 0.03 | na | na | na |
| greater than 8 years | 22 | 0.02 | 0.03 | 22 | 0.08 | 0.15 | 22 | 0.02 | 0.03 | na | na | na |
| Poultry | 35 to 52 days | na | na | na | 75 | 0 | 0 | 75 | 0 | 0 | na | na | na |
| all | na | na | na | na | na | na | na | na | na | 150 | 0.01 | 0.01 |

**Note:** ‘na’ means Not Applicable.

## Iron (Fe)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Animal product** | **Age** | **Kidney** | | | **Liver** | | | **Muscle** | | | **Eggs** | | |
| **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** |
| Cattle | 5 months to 2 years | 138 | 58.90 | 88.74 | 138 | 52.54 | 98.62 | 138 | 16.78 | 25.45 | na | na | na |
| 2 to 4 years | 136 | 63.94 | 99.05 | 136 | 54.09 | 93.46 | 136 | 19.86 | 31.37 | na | na | na |
| greater than 4 years | 136 | 65.41 | 94.86 | 136 | 61.19 | 118.84 | 136 | 21.17 | 33.15 | na | na | na |
| Sheep | less than 12 months | 49 | 36.03 | 91.31 | 49 | 64.37 | 115.14 | 49 | 13.06 | 16 | na | na | na |
| 1 to 3 years | 53 | 45.87 | 184.61 | 53 | 85.69 | 196.90 | 53 | 16.20 | 21.17 | na | na | na |
| greater than 3 years | 50 | 65.10 | 197.19 | 50 | 124.71 | 263.05 | 50 | 18.59 | 23.12 | na | na | na |
| Pigs | less than 7 months | 32 | 32.40 | 46.54 | 32 | 139.41 | 210.81 | 32 | 6.99 | 10.73 | na | na | na |
| greater than 7 months | 29 | 49.73 | 85.93 | 29 | 204.43 | 457.32 | 29 | 10.54 | 13.73 | na | na | na |
| Horses | 2 to 5 years | 20 | 50.54 | 62.42 | 20 | 258.89 | 542.03 | 20 | 24.61 | 44.85 | na | na | na |
| 5 to 8 years | 18 | 56.65 | 86.70 | 18 | 460.70 | 1319.29 | 18 | 42.34 | 53.90 | na | na | na |
| greater than 8 years | 22 | 44.64 | 57.56 | 22 | 193.15 | 751.73 | 22 | 35.09 | 44.63 | na | na | na |
| Poultry | 35 to 52 days | na | na | na | 75 | 73.34 | 109.95 | 75 | 2.88 | 3.48 | na | na | na |
| all | na | na | na | na | na | na | na | na | na | 150 | 11.09 | 14.87 |

**Note:** ‘na’ means Not Applicable.

## Lead (Pb)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Animal product** | **Age** | **Kidney** | | | **Liver** | | | **Muscle** | | | **Eggs** | | |
| **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** |
| Cattle | 5 months to 2 years | 138 | 0.02 | 0.05 | 138 | 0.01 | 0.03 | 138 | 0 | 0 | na | na | na |
| 2 to 4 years | 136 | 0.01 | 0.04 | 136 | 0.01 | 0.02 | 136 | 0 | 0 | na | na | na |
| greater than 4 years | 136 | 0.02 | 0.05 | 136 | 0.01 | 0.03 | 136 | 0 | 0 | na | na | na |
| Sheep | less than 12 months | 49 | 0.02 | 0.07 | 49 | 0.01 | 0.04 | 49 | 0 | 0 | na | na | na |
| 1 to 3 years | 53 | 0.03 | 0.11 | 53 | 0.02 | 0.10 | 53 | 0 | 0 | na | na | na |
| greater than 3 years | 50 | 0.03 | 0.18 | 50 | 0.02 | 0.19 | 50 | 0 | 0 | na | na | na |
| Pigs | less than 7 months | 32 | 0 | 0.01 | 32 | 0 | 0.01 | 32 | 0 | 0 | na | na | na |
| greater than 7 months | 29 | 0 | 0.01 | 29 | 0 | 0.01 | 29 | 0 | 0 | na | na | na |
| Horses | 2 to 5 years | 20 | 0.03 | 0.10 | 20 | 0.10 | 0.23 | 20 | 0 | 0 | na | na | na |
| 5 to 8 years | 18 | 0.02 | 0.21 | 18 | 0.06 | 0.51 | 18 | 0 | 0 | na | na | na |
| greater than 8 years | 22 | 0.02 | 0.06 | 22 | 0.07 | 0.14 | 22 | 0 | 0 | na | na | na |
| Poultry | 35 to 52 days | na | na | na | 75 | 0 | 0 | 75 | 0 | 0 | na | na | na |
| all | na | na | na | na | na | na | na | na | na | 150 | 0 | 0 |

**Note:** ‘na’ means Not Applicable.

## Lithium (Li)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Animal product** | **Age** | **Kidney** | | | **Liver** | | | **Muscle** | | | **Eggs** | | |
| **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** |
| Cattle | 5 months to 2 years | 138 | 0.03 | 0.06 | 138 | 0.02 | 0.04 | 138 | 0.02 | 0.04 | na | na | na |
| 2 to 4 years | 136 | 0.02 | 0.05 | 136 | 0.01 | 0.04 | 136 | 0.01 | 0.03 | na | na | na |
| greater than 4 years | 136 | 0.04 | 0.06 | 136 | 0.03 | 0.04 | 136 | 0.02 | 0.04 | na | na | na |
| Sheep | less than 12 months | 49 | 0.04 | 0.06 | 49 | 0.02 | 0.04 | 49 | 0.02 | 0.04 | na | na | na |
| 1 to 3 years | 53 | 0.02 | 0.06 | 53 | 0.01 | 0.04 | 53 | 0.01 | 0.04 | na | na | na |
| greater than 3 years | 50 | 0.03 | 0.06 | 50 | 0.02 | 0.05 | 50 | 0.01 | 0.04 | na | na | na |
| Pigs | less than 7 months | 32 | 0.02 | 0.04 | 32 | 0 | 0.03 | 32 | 0 | 0.03 | na | na | na |
| greater than 7 months | 29 | 0.03 | 0.04 | 29 | 0.02 | 0.04 | 29 | 0.02 | 0.04 | na | na | na |
| Horses | 2 to 5 years | 20 | 0.04 | 0.05 | 20 | 0.02 | 0.04 | 20 | 0.02 | 0.03 | na | na | na |
| 5 to 8 years | 18 | 0.04 | 0.05 | 18 | 0.02 | 0.03 | 18 | 0.02 | 0.03 | na | na | na |
| greater than 8 years | 22 | 0.04 | 0.06 | 22 | 0.02 | 0.04 | 22 | 0.02 | 0.03 | na | na | na |
| Poultry | 35 to 52 days | na | na | na | 75 | 0 | 0 | 75 | 0 | 0 | na | na | na |
| all | na | na | na | na | na | na | na | na | na | 150 | 0.04 | 0.07 |

**Note:** ‘na’ means Not Applicable.

## Magnesium (Mg)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Animal product** | **Age** | **Kidney** | | | **Liver** | | | **Muscle** | | | **Eggs** | | |
| **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** |
| Cattle | 5 months to 2 years | 138 | 140.72 | 168.21 | 138 | 153.19 | 185.28 | 138 | 170.31 | 202.38 | na | na | na |
| 2 to 4 years | 136 | 134.80 | 159.63 | 136 | 150.18 | 174.71 | 136 | 164.32 | 197.84 | na | na | na |
| greater than 4 years | 136 | 132.97 | 154.22 | 136 | 152.08 | 175.53 | 136 | 166.18 | 199.80 | na | na | na |
| Sheep | less than 12 months | 49 | 133.54 | 154.30 | 49 | 155.58 | 173.74 | 49 | 170.43 | 208.63 | na | na | na |
| 1 to 3 years | 53 | 144.80 | 159.42 | 53 | 165.56 | 179.69 | 53 | 177.98 | 215.25 | na | na | na |
| greater than 3 years | 50 | 129.55 | 156.38 | 50 | 150.77 | 184.69 | 50 | 156.94 | 203.91 | na | na | na |
| Pigs | less than 7 months | 32 | 140.10 | 161.97 | 32 | 164.20 | 190.74 | 32 | 178.94 | 219.40 | na | na | na |
| greater than 7 months | 29 | 134.08 | 155.83 | 29 | 156.78 | 179.33 | 29 | 191.49 | 205.66 | na | na | na |
| Horses | 2 to 5 years | 20 | 109.81 | 135.35 | 20 | 136.17 | 171.89 | 20 | 165.37 | 190.34 | na | na | na |
| 5 to 8 years | 18 | 126.66 | 137.75 | 18 | 170.47 | 183.52 | 18 | 188.67 | 217.09 | na | na | na |
| greater than 8 years | 22 | 129.37 | 136.58 | 22 | 163.30 | 179.94 | 22 | 182.02 | 223.23 | na | na | na |
| Poultry | 35 to 52 days | na | na | na | 75 | 185.26 | 200.34 | 75 | 291.12 | 319.11 | na | na | na |
| all | na | na | na | na | na | na | na | na | na | 150 | 102.02 | 115.06 |

**Note:** ‘na’ means Not Applicable.

## Manganese (Mn)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Animal product** | **Age** | **Kidney** | | | **Liver** | | | **Muscle** | | | **Eggs** | | |
| **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** |
| Cattle | 5 months to 2 years | 138 | 0.94 | 1.15 | 138 | 2.53 | 3.25 | 138 | 0.07 | 0.13 | na | na | na |
| 2 to 4 years | 136 | 0.88 | 1.11 | 136 | 2.45 | 3.11 | 136 | 0.06 | 0.14 | na | na | na |
| greater than 4 years | 136 | 0.84 | 1.08 | 136 | 2.40 | 3.24 | 136 | 0.06 | 0.10 | na | na | na |
| Sheep | less than 12 months | 49 | 0.75 | 1.07 | 49 | 2.30 | 3.28 | 49 | 0.08 | 0.10 | na | na | na |
| 1 to 3 years | 53 | 0.79 | 1.11 | 53 | 2.07 | 3.09 | 53 | 0.08 | 0.12 | na | na | na |
| greater than 3 years | 50 | 0.75 | 0.94 | 50 | 1.83 | 2.73 | 50 | 0.09 | 0.12 | na | na | na |
| Pigs | less than 7 months | 32 | 1.09 | 1.43 | 32 | 2.27 | 3.05 | 32 | 0.07 | 0.10 | na | na | na |
| greater than 7 months | 29 | 1.07 | 1.26 | 29 | 2.25 | 2.91 | 29 | 0.06 | 0.08 | na | na | na |
| Horses | 2 to 5 years | 20 | 0.76 | 0.95 | 20 | 1.36 | 1.88 | 20 | 0.07 | 0.19 | na | na | na |
| 5 to 8 years | 18 | 0.78 | 1.03 | 18 | 1.60 | 2.13 | 18 | 0.18 | 0.23 | na | na | na |
| greater than 8 years | 22 | 0.70 | 0.87 | 22 | 1.66 | 2.10 | 22 | 0.13 | 0.18 | na | na | na |
| Poultry | 35 to 52 days | na | na | na | 75 | 2.52 | 3.29 | 75 | 0.09 | 0.10 | na | na | na |
| all | na | na | na | na | na | na | na | na | na | 150 | 0.24 | 0.31 |

**Note:** ‘na’ means Not Applicable.

## Mercury (Hg)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Animal product** | **Age** | **Kidney** | | | **Liver** | | | **Muscle** | | | **Eggs** | | |
| **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** |
| Cattle | 5 months to 2 years | 138 | 0 | 0.01 | 138 | 0 | 0 | 138 | 0 | 0 | na | na | na |
| 2 to 4 years | 136 | 0 | 0.01 | 136 | 0 | 0 | 136 | 0 | 0 | na | na | na |
| greater than 4 years | 136 | 0 | 0.01 | 136 | 0 | 0 | 136 | 0 | 0 | na | na | na |
| Sheep | less than 12 months | 49 | 0 | 0.01 | 49 | 0 | 0 | 49 | 0 | 0 | na | na | na |
| 1 to 3 years | 53 | 0 | 0.01 | 53 | 0 | 0 | 53 | 0 | 0 | na | na | na |
| greater than 3 years | 50 | 0 | 0.01 | 50 | 0 | 0.01 | 50 | 0 | 0 | na | na | na |
| Pigs | less than 7 months | 32 | 0 | 0.02 | 32 | 0 | 0.01 | 32 | 0 | 0 | na | na | na |
| greater than 7 months | 29 | 0.01 | 0.05 | 29 | 0 | 0.01 | 29 | 0 | 0 | na | na | na |
| Horses | 2 to 5 years | 20 | 0.01 | 0.03 | 20 | 0 | 0.01 | 20 | 0 | 0 | na | na | na |
| 5 to 8 years | 18 | 0.01 | 0.12 | 18 | 0 | 0.02 | 18 | 0 | 0 | na | na | na |
| greater than 8 years | 22 | 0.02 | 0.10 | 22 | 0 | 0.02 | 22 | 0 | 0 | na | na | na |
| Poultry | 35 to 52 days | na | na | na | 75 | 0 | 0 | 75 | 0 | 0 | na | na | na |
| all | na | na | na | na | na | na | na | na | na | 150 | 0 | 0 |

**Note:** ‘na’ means Not Applicable.

## Molybdenum (Mo)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Animal product** | **Age** | **Kidney** | | | **Liver** | | | **Muscle** | | | **Eggs** | | |
| **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** |
| Cattle | 5 months to 2 years | 138 | 0.36 | 0.45 | 138 | 0.96 | 1.29 | 138 | 0.01 | 0.02 | na | na | na |
| 2 to 4 years | 136 | 0.34 | 0.45 | 136 | 0.96 | 1.26 | 136 | 0.01 | 0.02 | na | na | na |
| greater than 4 years | 136 | 0.35 | 0.45 | 136 | 0.95 | 1.23 | 136 | 0.01 | 0.02 | na | na | na |
| Sheep | less than 12 months | 49 | 0.40 | 0.63 | 49 | 1.01 | 1.38 | 49 | 0.01 | 0.02 | na | na | na |
| 1 to 3 years | 53 | 0.38 | 0.62 | 53 | 1.03 | 1.28 | 53 | 0.01 | 0.02 | na | na | na |
| greater than 3 years | 50 | 0.40 | 0.69 | 50 | 1.08 | 1.44 | 50 | 0.01 | 0.02 | na | na | na |
| Pigs | less than 7 months | 32 | 0.60 | 0.76 | 32 | 1.08 | 1.45 | 32 | 0.01 | 0.02 | na | na | na |
| greater than 7 months | 29 | 0.55 | 0.76 | 29 | 1.32 | 1.65 | 29 | 0.01 | 0.01 | na | na | na |
| Horses | 2 to 5 years | 20 | 0.26 | 0.33 | 20 | 1.44 | 2.61 | 20 | 0.01 | 0.02 | na | na | na |
| 5 to 8 years | 18 | 0.30 | 0.35 | 18 | 1.64 | 2.06 | 18 | 0.01 | 0.02 | na | na | na |
| greater than 8 years | 22 | 0.28 | 0.33 | 22 | 1.68 | 2.90 | 22 | 0.01 | 0.02 | na | na | na |
| Poultry | 35 to 52 days | na | na | na | 75 | 0.63 | 0.76 | 75 | 0.03 | 0.05 | na | na | na |
| all | na | na | na | na | na | na | na | na | na | 150 | 0.06 | 0.11 |

**Note:** ‘na’ means Not Applicable.

## Nickel (Ni)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Animal product** | **Age** | **Kidney** | | | **Liver** | | | **Muscle** | | | **Eggs** | | |
| **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** |
| Cattle | 5 months to 2 years | 138 | 0.02 | 0.03 | 138 | 0.01 | 0.02 | 138 | 0.01 | 0.03 | na | na | na |
| 2 to 4 years | 136 | 0.02 | 0.03 | 136 | 0.01 | 0.02 | 136 | 0.01 | 0.02 | na | na | na |
| greater than 4 years | 136 | 0.02 | 0.03 | 136 | 0.01 | 0.02 | 136 | 0.01 | 0.02 | na | na | na |
| Sheep | less than 12 months | 49 | 0.04 | 0.08 | 49 | 0.01 | 0.02 | 49 | 0.01 | 0.02 | na | na | na |
| 1 to 3 years | 53 | 0.03 | 0.05 | 53 | 0.01 | 0.02 | 53 | 0.01 | 0.02 | na | na | na |
| greater than 3 years | 50 | 0.03 | 0.06 | 50 | 0.01 | 0.03 | 50 | 0.01 | 0.03 | na | na | na |
| Pigs | less than 7 months | 32 | 0.02 | 0.04 | 32 | 0.01 | 0.01 | 32 | 0.01 | 0.01 | na | na | na |
| greater than 7 months | 29 | 0.02 | 0.03 | 29 | 0.01 | 0.01 | 29 | 0.01 | 0.01 | na | na | na |
| Horses | 2 to 5 years | 20 | 0.02 | 0.04 | 20 | 0.01 | 0.02 | 20 | 0.01 | 0.02 | na | na | na |
| 5 to 8 years | 18 | 0.02 | 0.04 | 18 | 0.01 | 0.02 | 18 | 0.01 | 0.02 | na | na | na |
| greater than 8 years | 22 | 0.02 | 0.03 | 22 | 0.01 | 0.02 | 22 | 0.01 | 0.03 | na | na | na |
| Poultry | 35 to 52 days | na | na | na | 75 | 0.02 | 0.04 | 75 | 0.01 | 0.02 | na | na | na |
| all | na | na | na | na | na | na | na | na | na | 150 | 0.03 | 0.06 |

**Note:** ‘na’ means Not Applicable.

## Phosphorus (P)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Animal product** | **Age** | **Kidney** | | | **Liver** | | | **Muscle** | | | **Eggs** | | |
| **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** |
| Cattle | 5 months to 2 years | 138 | 2096.40 | 2461.07 | 138 | 3012.40 | 3410.56 | 138 | 1521.90 | 1794.20 | na | na | na |
| 2 to 4 years | 136 | 1979.80 | 2315 | 136 | 2948.15 | 3424.50 | 136 | 1433.80 | 1714.05 | na | na | na |
| greater than 4 years | 136 | 1983.35 | 2286.45 | 136 | 2949.35 | 3442.05 | 136 | 1488.45 | 1770.70 | na | na | na |
| Sheep | less than 12 months | 49 | 2013.30 | 2299.94 | 49 | 3193.50 | 3515.62 | 49 | 1560.20 | 1728.46 | na | na | na |
| 1 to 3 years | 53 | 2155.20 | 2439.88 | 53 | 3351 | 3797.90 | 53 | 1576.90 | 1752.68 | na | na | na |
| greater than 3 years | 50 | 1922.05 | 2337.97 | 50 | 3126.85 | 3817.21 | 50 | 1394.80 | 1732.25 | na | na | na |
| Pigs | less than 7 months | 32 | 2030.80 | 2337.56 | 32 | 2849.95 | 3431.66 | 32 | 1577.25 | 1919.50 | na | na | na |
| greater than 7 months | 29 | 1894.00 | 2232.40 | 29 | 2876.10 | 3156.60 | 29 | 1676.20 | 1818.48 | na | na | na |
| Horses | 2 to 5 years | 20 | 1551.15 | 1860.52 | 20 | 2193.60 | 2783.22 | 20 | 1473.30 | 1662.73 | na | na | na |
| 5 to 8 years | 18 | 1675.80 | 1977.07 | 18 | 2762.20 | 3074.13 | 18 | 1618.25 | 1873.77 | na | na | na |
| greater than 8 years | 22 | 1696.70 | 1823.78 | 22 | 2589.75 | 3043.37 | 22 | 1639.10 | 1842.93 | na | na | na |
| Poultry | 35 to 52 days | na | na | na | 75 | 2568.90 | 2961.02 | 75 | 2130.20 | 2395.56 | na | na | na |
| all | na | na | na | na | na | na | na | na | na | 150 | 1629.15 | 1876.01 |

**Note:** ‘na’ means Not Applicable.

## Potassium (K)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Animal product** | **Age** | **Kidney** | | | **Liver** | | | **Muscle** | | | **Eggs** | | |
| **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** |
| Cattle | 5 months to 2 years | 138 | 2181.75 | 2559.14 | 138 | 2588.05 | 2960.60 | 138 | 2611.40 | 3169.58 | na | na | na |
| 2 to 4 years | 136 | 2100.85 | 2426.45 | 136 | 2504.20 | 2852.90 | 136 | 2590.80 | 2962.95 | na | na | na |
| greater than 4 years | 136 | 2090.65 | 2394 | 136 | 2520.10 | 2953.90 | 136 | 2595.75 | 3098.30 | na | na | na |
| Sheep | less than 12 months | 49 | 1925.70 | 2202.64 | 49 | 2334.40 | 2636.44 | 49 | 2491.20 | 2928.50 | na | na | na |
| 1 to 3 years | 53 | 2029.60 | 2297.54 | 53 | 2458.10 | 2743.48 | 53 | 2561.40 | 2896.42 | na | na | na |
| greater than 3 years | 50 | 1826.95 | 2303.45 | 50 | 2296.10 | 2615.54 | 50 | 2343.35 | 2849.85 | na | na | na |
| Pigs | less than 7 months | 32 | 2040.40 | 2363.20 | 32 | 2258.75 | 2684.64 | 32 | 2593.35 | 3240.22 | na | na | na |
| greater than 7 months | 29 | 1951 | 2306.90 | 29 | 2297.90 | 2762.84 | 29 | 2703 | 2963.76 | na | na | na |
| Horses | 2 to 5 years | 20 | 1842.25 | 2125.34 | 20 | 2235.40 | 2813.88 | 20 | 2393.35 | 2801.91 | na | na | na |
| 5 to 8 years | 18 | 2075.80 | 2273.30 | 18 | 2648.85 | 2840.02 | 18 | 2549.65 | 2964.02 | na | na | na |
| greater than 8 years | 22 | 2104.80 | 2344.45 | 22 | 2562.70 | 2777.75 | 22 | 2663.00 | 2916.23 | na | na | na |
| Poultry | 35 to 52 days | na | na | na | 75 | 2483.20 | 2685.94 | 75 | 3065.70 | 3389.78 | na | na | na |
| all | na | na | na | na | na | na | na | na | na | 150 | 1295.15 | 1548.23 |

**Note:** ‘na’ means Not Applicable.

## Rubidium (Rb)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Animal product** | **Age** | **Kidney** | | | **Liver** | | | **Muscle** | | | **Eggs** | | |
| **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** |
| Cattle | 5 months to 2 years | 138 | 3.56 | 11.46 | 138 | 7.05 | 21.67 | 138 | 3.50 | 10.26 | na | na | na |
| 2 to 4 years | 136 | 3.26 | 9.19 | 136 | 6.19 | 17.47 | 136 | 3.29 | 9.03 | na | na | na |
| greater than 4 years | 136 | 3.13 | 7.66 | 136 | 6.16 | 14.01 | 136 | 3.22 | 7.16 | na | na | na |
| Sheep | less than 12 months | 49 | 3.95 | 11.92 | 49 | 7.66 | 22.47 | 49 | 3.78 | 10.27 | na | na | na |
| 1 to 3 years | 53 | 2.44 | 10.77 | 53 | 4.61 | 23.05 | 53 | 2.47 | 10.88 | na | na | na |
| greater than 3 years | 50 | 2.82 | 9.24 | 50 | 4.83 | 18.86 | 50 | 2.73 | 10.66 | na | na | na |
| Pigs | less than 7 months | 32 | 4.80 | 11.05 | 32 | 8.82 | 18.38 | 32 | 5.57 | 12.86 | na | na | na |
| greater than 7 months | 29 | 3.78 | 8.24 | 29 | 6.17 | 16.84 | 29 | 4.59 | 10.12 | na | na | na |
| Horses | 2 to 5 years | 20 | 2.70 | 3.66 | 20 | 5.49 | 6.85 | 20 | 2.68 | 4.18 | na | na | na |
| 5 to 8 years | 18 | 2.21 | 5.31 | 18 | 4.30 | 8.44 | 18 | 2.01 | 5.14 | na | na | na |
| greater than 8 years | 22 | 2.67 | 6.16 | 22 | 4.58 | 9.64 | 22 | 2.64 | 5.95 | na | na | na |
| Poultry | 35 to 52 days | na | na | na | 75 | 6.22 | 11.57 | 75 | 6.28 | 11.15 | na | na | na |
| all | na | na | na | na | na | na | na | na | na | 150 | 2.16 | 3.78 |

**Note:** ‘na’ means Not Applicable.

## Scandium (Sc)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Animal product** | **Age** | **Kidney** | | | **Liver** | | | **Muscle** | | | **Eggs** | | |
| **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** |
| Cattle | 5 months to 2 years | 138 | 0 | 0.08 | 138 | 0.01 | 0.10 | 138 | 0 | 0.09 | na | na | na |
| 2 to 4 years | 136 | 0.01 | 0.10 | 136 | 0 | 0.12 | 136 | 0 | 0.10 | na | na | na |
| greater than 4 years | 136 | 0.01 | 0.11 | 136 | 0 | 0.11 | 136 | 0 | 0.10 | na | na | na |
| Sheep | less than 12 months | 49 | 0 | 0.05 | 49 | 0 | 0.08 | 49 | 0 | 0.07 | na | na | na |
| 1 to 3 years | 53 | 0.01 | 0.06 | 53 | 0.01 | 0.08 | 53 | 0.02 | 0.07 | na | na | na |
| greater than 3 years | 50 | 0.02 | 0.09 | 50 | 0.03 | 0.08 | 50 | 0.03 | 0.10 | na | na | na |
| Pigs | less than 7 months | 32 | 0 | 0.07 | 32 | 0.01 | 0.08 | 32 | 0.02 | 0.12 | na | na | na |
| greater than 7 months | 29 | 0 | 0.07 | 29 | 0 | 0.06 | 29 | 0.01 | 0.10 | na | na | na |
| Horses | 2 to 5 years | 20 | 0 | 0.06 | 20 | 0.01 | 0.11 | 20 | 0 | 0.11 | na | na | na |
| 5 to 8 years | 18 | 0.02 | 0.13 | 18 | 0 | 0.09 | 18 | 0 | 0.06 | na | na | na |
| greater than 8 years | 22 | 0.01 | 0.09 | 22 | 0.01 | 0.12 | 22 | 0 | 0.11 | na | na | na |
| Poultry | 35 to 52 days | na | na | na | 75 | 0.01 | 0.04 | 75 | 0.01 | 0.03 | na | na | na |
| all | na | na | na | na | na | na | na | na | na | 150 | 0 | 0.09 |

**Note:** ‘na’ means Not Applicable.

## Selenium (Se)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Animal product** | **Age** | **Kidney** | | | **Liver** | | | **Muscle** | | | **Eggs** | | |
| **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** |
| Cattle | 5 months to 2 years | 138 | 1 | 1.55 | 138 | 0.25 | 0.52 | 138 | 0.09 | 0.22 | na | na | na |
| 2 to 4 years | 136 | 1.11 | 1.54 | 136 | 0.25 | 0.44 | 136 | 0.09 | 0.20 | na | na | na |
| greater than 4 years | 136 | 1.07 | 1.55 | 136 | 0.27 | 0.46 | 136 | 0.12 | 0.21 | na | na | na |
| Sheep | less than 12 months | 49 | 0.90 | 1.19 | 49 | 0.24 | 0.47 | 49 | 0.07 | 0.15 | na | na | na |
| 1 to 3 years | 53 | 0.97 | 1.37 | 53 | 0.29 | 0.62 | 53 | 0.08 | 0.17 | na | na | na |
| greater than 3 years | 50 | 0.90 | 1.30 | 50 | 0.31 | 0.51 | 50 | 0.08 | 0.15 | na | na | na |
| Pigs | less than 7 months | 32 | 1.53 | 2.07 | 32 | 0.61 | 0.76 | 32 | 0.21 | 0.30 | na | na | na |
| greater than 7 months | 29 | 2.09 | 2.90 | 29 | 0.68 | 0.95 | 29 | 0.21 | 0.29 | na | na | na |
| Horses | 2 to 5 years | 20 | 0.96 | 1.17 | 20 | 0.28 | 0.33 | 20 | 0.11 | 0.15 | na | na | na |
| 5 to 8 years | 18 | 1.02 | 1.23 | 18 | 0.31 | 0.45 | 18 | 0.13 | 0.19 | na | na | na |
| greater than 8 years | 22 | 0.93 | 1.06 | 22 | 0.28 | 0.47 | 22 | 0.11 | 0.18 | na | na | na |
| Poultry | 35 to 52 days | na | na | na | 75 | 0.60 | 0.76 | 75 | 0.21 | 0.36 | na | na | na |
| all | na | na | na | na | na | na | na | na | na | 150 | 0.23 | 0.31 |

**Note:** ‘na’ means Not Applicable.

## Silicon (Si)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Animal product** | **Age** | **Kidney** | | | **Liver** | | | **Muscle** | | | **Eggs** | | |
| **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** |
| Cattle | 5 months to 2 years | 138 | 2.86 | 5.29 | 138 | 1.48 | 3.36 | 138 | 1.37 | 3.20 | na | na | na |
| 2 to 4 years | 136 | 3.06 | 5.74 | 136 | 1.48 | 4.24 | 136 | 1.32 | 4.05 | na | na | na |
| greater than 4 years | 136 | 3.34 | 6.10 | 136 | 1.67 | 4.23 | 136 | 1.51 | 3.91 | na | na | na |
| Sheep | less than 12 months | 49 | 2.68 | 5.68 | 49 | 1.35 | 4.11 | 49 | 1.34 | 4.38 | na | na | na |
| 1 to 3 years | 53 | 1.96 | 4.67 | 53 | 0.98 | 3.49 | 53 | 0.96 | 2.74 | na | na | na |
| greater than 3 years | 50 | 2.98 | 4.91 | 50 | 1.96 | 4.07 | 50 | 1.79 | 4.10 | na | na | na |
| Pigs | less than 7 months | 32 | 1.65 | 4.99 | 32 | 1.37 | 4.82 | 32 | 1.19 | 4.56 | na | na | na |
| greater than 7 months | 29 | 1.22 | 4.87 | 29 | 1.62 | 4.61 | 29 | 1.01 | 4.20 | na | na | na |
| Horses | 2 to 5 years | 20 | 2.28 | 4.61 | 20 | 2.02 | 4.10 | 20 | 1.81 | 3.36 | na | na | na |
| 5 to 8 years | 18 | 3.56 | 6.30 | 18 | 4.03 | 6.21 | 18 | 2.42 | 4.92 | na | na | na |
| greater than 8 years | 22 | 2.50 | 6.14 | 22 | 2.30 | 5.39 | 22 | 1.60 | 4.78 | na | na | na |
| Poultry | 35 to 52 days | na | na | na | 75 | 0.95 | 1.86 | 75 | 1 | 1.98 | na | na | na |
| all | na | na | na | na | na | na | na | na | na | 150 | 0.90 | 2.01 |

**Note:** ‘na’ means Not Applicable.

## Silver (Ag)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Animal product** | **Age** | **Kidney** | | | **Liver** | | | **Muscle** | | | **Eggs** | | |
| **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** |
| Cattle | 5 months to 2 years | 138 | 0 | 0 | 138 | 0.01 | 0.03 | 138 | 0 | 0 | na | na | na |
| 2 to 4 years | 136 | 0 | 0 | 136 | 0.01 | 0.03 | 136 | 0 | 0 | na | na | na |
| greater than 4 years | 136 | 0 | 0 | 136 | 0.01 | 0.03 | 136 | 0 | 0 | na | na | na |
| Sheep | less than 12 months | 49 | 0 | 0 | 49 | 0.01 | 0.05 | 49 | 0 | 0 | na | na | na |
| 1 to 3 years | 53 | 0 | 0 | 53 | 0.03 | 0.11 | 53 | 0 | 0 | na | na | na |
| greater than 3 years | 50 | 0 | 0 | 50 | 0.05 | 0.14 | 50 | 0 | 0 | na | na | na |
| Pigs | less than 7 months | 32 | 0 | 0 | 32 | 0 | 0 | 32 | 0 | 0 | na | na | na |
| greater than 7 months | 29 | 0 | 0 | 29 | 0 | 0 | 29 | 0 | 0 | na | na | na |
| Horses | 2 to 5 years | 20 | 0 | 0 | 20 | 0 | 0 | 20 | 0 | 0 | na | na | na |
| 5 to 8 years | 18 | 0 | 0 | 18 | 0 | 0 | 18 | 0 | 0 | na | na | na |
| greater than 8 years | 22 | 0 | 0 | 22 | 0 | 0 | 22 | 0 | 0 | na | na | na |
| Poultry | 35 to 52 days | na | na | na | 75 | 0 | 0 | 75 | 0 | 0 | na | na | na |
| all | na | na | na | na | na | na | na | na | na | 150 | 0 | 0 |

**Note:** ‘na’ means Not Applicable.

## Sodium (Na)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Animal product** | **Age** | **Kidney** | | | **Liver** | | | **Muscle** | | | **Eggs** | | |
| **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** |
| Cattle | 5 months to 2 years | 138 | 1430.15 | 1679.55 | 138 | 535.80 | 667.64 | 138 | 454.84 | 601.96 | na | na | na |
| 2 to 4 years | 136 | 1436.35 | 1662.90 | 136 | 530.80 | 644.26 | 136 | 442.36 | 574.98 | na | na | na |
| greater than 4 years | 136 | 1512.25 | 1829.05 | 136 | 574.01 | 704.94 | 136 | 499.06 | 703.83 | na | na | na |
| Sheep | less than 12 months | 49 | 1622.10 | 1788.98 | 49 | 542.20 | 654.67 | 49 | 478.74 | 584.08 | na | na | na |
| 1 to 3 years | 53 | 1665 | 1905.14 | 53 | 573.61 | 667.72 | 53 | 483.44 | 583.24 | na | na | na |
| greater than 3 years | 50 | 1641.70 | 2031.82 | 50 | 574.68 | 681.39 | 50 | 510.15 | 695.44 | na | na | na |
| Pigs | less than 7 months | 32 | 1266.95 | 1525.51 | 32 | 913.71 | 1118.32 | 32 | 448.87 | 600.08 | na | na | na |
| greater than 7 months | 29 | 1331.80 | 1631.26 | 29 | 886.36 | 1065.24 | 29 | 360.72 | 431.33 | na | na | na |
| Horses | 2 to 5 years | 20 | 1351.50 | 1728.21 | 20 | 465.86 | 607.84 | 20 | 354.33 | 483.75 | na | na | na |
| 5 to 8 years | 18 | 1613.75 | 1867.63 | 18 | 540.54 | 625.94 | 18 | 426.88 | 533.80 | na | na | na |
| greater than 8 years | 22 | 1663.85 | 1937.33 | 22 | 544.75 | 642.13 | 22 | 406.86 | 500.96 | na | na | na |
| Poultry | 35 to 52 days | na | na | na | 75 | 663.65 | 838.60 | 75 | 304.64 | 355.58 | na | na | na |
| all | na | na | na | na | na | na | na | na | na | 150 | 1287.50 | 1378.01 |

**Note:** ‘na’ means Not Applicable.

## Strontium (Sr)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Animal product** | **Age** | **Kidney** | | | **Liver** | | | **Muscle** | | | **Eggs** | | |
| **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** |
| Cattle | 5 months to 2 years | 138 | 0.14 | 0.27 | 138 | 0.05 | 0.09 | 138 | 0.05 | 0.15 | na | na | na |
| 2 to 4 years | 136 | 0.13 | 0.27 | 136 | 0.05 | 0.10 | 136 | 0.04 | 0.11 | na | na | na |
| greater than 4 years | 136 | 0.14 | 0.32 | 136 | 0.06 | 0.11 | 136 | 0.05 | 0.16 | na | na | na |
| Sheep | less than 12 months | 49 | 0.23 | 0.38 | 49 | 0.08 | 0.12 | 49 | 0.06 | 0.09 | na | na | na |
| 1 to 3 years | 53 | 0.19 | 0.50 | 53 | 0.08 | 0.12 | 53 | 0.05 | 0.08 | na | na | na |
| greater than 3 years | 50 | 0.20 | 0.61 | 50 | 0.07 | 0.18 | 50 | 0.05 | 0.13 | na | na | na |
| Pigs | less than 7 months | 32 | 0.04 | 0.06 | 32 | 0.03 | 0.04 | 32 | 0.02 | 0.02 | na | na | na |
| greater than 7 months | 29 | 0.04 | 0.05 | 29 | 0.02 | 0.03 | 29 | 0.01 | 0.02 | na | na | na |
| Horses | 2 to 5 years | 20 | 0.26 | 0.50 | 20 | 0.07 | 0.24 | 20 | 0.05 | 0.25 | na | na | na |
| 5 to 8 years | 18 | 0.32 | 0.54 | 18 | 0.10 | 0.20 | 18 | 0.08 | 0.28 | na | na | na |
| greater than 8 years | 22 | 0.30 | 0.55 | 22 | 0.08 | 0.17 | 22 | 0.08 | 0.21 | na | na | na |
| Poultry | 35 to 52 days | na | na | na | 75 | 0.04 | 0.06 | 75 | 0.02 | 0.04 | na | na | na |
| all | na | na | na | na | na | na | na | na | na | 150 | 0.41 | 1.03 |

**Note:** ‘na’ means Not Applicable.

## Thallium (Tl)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Animal product** | **Age** | **Kidney** | | | **Liver** | | | **Muscle** | | | **Eggs** | | |
| **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** |
| Cattle | 5 months to 2 years | 138 | 0 | 0.01 | 138 | 0 | 0 | 138 | 0 | 0 | na | na | na |
| 2 to 4 years | 136 | 0 | 0.02 | 136 | 0 | 0 | 136 | 0 | 0 | na | na | na |
| greater than 4 years | 136 | 0 | 0.02 | 136 | 0 | 0 | 136 | 0 | 0 | na | na | na |
| Sheep | less than 12 months | 49 | 0 | 0.05 | 49 | 0 | 0 | 49 | 0 | 0 | na | na | na |
| 1 to 3 years | 53 | 0 | 0.01 | 53 | 0 | 0 | 53 | 0 | 0 | na | na | na |
| greater than 3 years | 50 | 0 | 0.01 | 50 | 0 | 0 | 50 | 0 | 0 | na | na | na |
| Pigs | less than 7 months | 32 | 0.01 | 0.01 | 32 | 0 | 0.01 | 32 | 0 | 0 | na | na | na |
| greater than 7 months | 29 | 0 | 0.01 | 29 | 0 | 0 | 29 | 0 | 0 | na | na | na |
| Horses | 2 to 5 years | 20 | 0 | 0 | 20 | 0 | 0 | 20 | 0 | 0 | na | na | na |
| 5 to 8 years | 18 | 0 | 0 | 18 | 0 | 0 | 18 | 0 | 0 | na | na | na |
| greater than 8 years | 22 | 0 | 0 | 22 | 0 | 0 | 22 | 0 | 0 | na | na | na |
| Poultry | 35 to 52 days | na | na | na | 75 | 0.01 | 0.01 | 75 | 0.01 | 0.02 | na | na | na |
| all | na | na | na | na | na | na | na | na | na | 150 | 0 | 0 |

**Note:** ‘na’ means Not Applicable.

## Tin (Sn)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Animal product** | **Age** | **Kidney** | | | **Liver** | | | **Muscle** | | | **Eggs** | | |
| **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** |
| Cattle | 5 months to 2 years | 138 | 0 | 0 | 138 | 0 | 0 | 138 | 0 | 0 | na | na | na |
| 2 to 4 years | 136 | 0 | 0 | 136 | 0 | 0 | 136 | 0 | 0 | na | na | na |
| greater than 4 years | 136 | 0 | 0 | 136 | 0 | 0 | 136 | 0 | 0 | na | na | na |
| Sheep | less than 12 months | 49 | 0 | 0 | 49 | 0 | 0 | 49 | 0 | 0 | na | na | na |
| 1 to 3 years | 53 | 0 | 0 | 53 | 0 | 0 | 53 | 0 | 0 | na | na | na |
| greater than 3 years | 50 | 0 | 0 | 50 | 0 | 0 | 50 | 0 | 0 | na | na | na |
| Pigs | less than 7 months | 32 | 0 | 0 | 32 | 0 | 0.01 | 32 | 0 | 0 | na | na | na |
| greater than 7 months | 29 | 0 | 0 | 29 | 0 | 0.01 | 29 | 0 | 0 | na | na | na |
| Horses | 2 to 5 years | 20 | 0 | 0 | 20 | 0 | 0.01 | 20 | 0 | 0 | na | na | na |
| 5 to 8 years | 18 | 0 | 0 | 18 | 0 | 0.01 | 18 | 0 | 0 | na | na | na |
| greater than 8 years | 22 | 0 | 0 | 22 | 0 | 0.01 | 22 | 0 | 0 | na | na | na |
| Poultry | 35 to 52 days | na | na | na | 75 | 0 | 0 | 75 | 0 | 0 | na | na | na |
| all | na | na | na | na | na | na | na | na | na | 150 | 0 | 0 |

**Note:** ‘na’ means Not Applicable.

## Titanium (Ti)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Animal product** | **Age** | **Kidney** | | | **Liver** | | | **Muscle** | | | **Eggs** | | |
| **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** |
| Cattle | 5 months to 2 years | 138 | 0 | 0.01 | 138 | 0 | 0.01 | 138 | 0 | 0 | na | na | na |
| 2 to 4 years | 136 | 0 | 0.01 | 136 | 0 | 0.02 | 136 | 0 | 0.01 | na | na | na |
| greater than 4 years | 136 | 0 | 0.01 | 136 | 0 | 0.02 | 136 | 0 | 0 | na | na | na |
| Sheep | less than 12 months | 49 | 0 | 0.02 | 49 | 0 | 0.01 | 49 | 0 | 0.01 | na | na | na |
| 1 to 3 years | 53 | 0 | 0.02 | 53 | 0 | 0.01 | 53 | 0 | 0.01 | na | na | na |
| greater than 3 years | 50 | 0.01 | 0.02 | 50 | 0.01 | 0.02 | 50 | 0 | 0.01 | na | na | na |
| Pigs | less than 7 months | 32 | 0 | 0.01 | 32 | 0 | 0.01 | 32 | 0 | 0.01 | na | na | na |
| greater than 7 months | 29 | 0 | 0.01 | 29 | 0 | 0.01 | 29 | 0 | 0.01 | na | na | na |
| Horses | 2 to 5 years | 20 | 0.01 | 0.02 | 20 | 0.11 | 0.46 | 20 | 0 | 0 | na | na | na |
| 5 to 8 years | 18 | 0.03 | 0.04 | 18 | 0.28 | 0.97 | 18 | 0 | 0.01 | na | na | na |
| greater than 8 years | 22 | 0.01 | 0.03 | 22 | 0.22 | 0.77 | 22 | 0 | 0 | na | na | na |
| Poultry | 35 to 52 days | na | na | na | 75 | 0 | 0 | 75 | 0 | 0 | na | na | na |
| all | na | na | na | na | na | na | na | na | na | 150 | 0 | 0 |

**Note:** ‘na’ means Not Applicable.

## Vanadium (V)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Animal product** | **Age** | **Kidney** | | | **Liver** | | | **Muscle** | | | **Eggs** | | |
| **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** |
| Cattle | 5 months to 2 years | 138 | 0.01 | 0.02 | 138 | 0 | 0.01 | 138 | 0 | 0 | na | na | na |
| 2 to 4 years | 136 | 0.01 | 0.02 | 136 | 0 | 0.01 | 136 | 0 | 0 | na | na | na |
| greater than 4 years | 136 | 0.01 | 0.02 | 136 | 0.01 | 0.01 | 136 | 0 | 0 | na | na | na |
| Sheep | less than 12 months | 49 | 0.01 | 0.05 | 49 | 0 | 0.01 | 49 | 0 | 0 | na | na | na |
| 1 to 3 years | 53 | 0.01 | 0.02 | 53 | 0 | 0.01 | 53 | 0 | 0 | na | na | na |
| greater than 3 years | 50 | 0.02 | 0.04 | 50 | 0.01 | 0.02 | 50 | 0 | 0.01 | na | na | na |
| Pigs | less than 7 months | 32 | 0.01 | 0.02 | 32 | 0 | 0.01 | 32 | 0 | 0 | na | na | na |
| greater than 7 months | 29 | 0.01 | 0.01 | 29 | 0 | 0.01 | 29 | 0 | 0 | na | na | na |
| Horses | 2 to 5 years | 20 | 0.01 | 0.02 | 20 | 0.03 | 0.07 | 20 | 0 | 0 | na | na | na |
| 5 to 8 years | 18 | 0.01 | 0.02 | 18 | 0.03 | 0.08 | 18 | 0 | 0 | na | na | na |
| greater than 8 years | 22 | 0.01 | 0.02 | 22 | 0.03 | 0.06 | 22 | 0 | 0 | na | na | na |
| Poultry | 35 to 52 days | na | na | na | 75 | 0 | 0 | 75 | 0 | 0 | na | na | na |
| all | na | na | na | na | na | na | na | na | na | 150 | 0 | 0 |

**Note:** ‘na’ means Not Applicable.

## Zinc (Zn)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Animal product** | **Age** | **Kidney** | | | **Liver** | | | **Muscle** | | | **Eggs** | | |
| **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** |
| Cattle | 5 months to 2 years | 138 | 16.43 | 21.71 | 138 | 33.86 | 51.90 | 138 | 42.44 | 55.48 | na | na | na |
| 2 to 4 years | 136 | 16.06 | 22.53 | 136 | 33.31 | 49.33 | 136 | 42.80 | 56.90 | na | na | na |
| greater than 4 years | 136 | 17.06 | 22.64 | 136 | 38 | 58.97 | 136 | 48.58 | 63.99 | na | na | na |
| Sheep | less than 12 months | 49 | 18.64 | 26.71 | 49 | 34.64 | 46.96 | 49 | 38.94 | 52.77 | na | na | na |
| 1 to 3 years | 53 | 20.65 | 26.10 | 53 | 37.60 | 48.38 | 53 | 38.02 | 49.67 | na | na | na |
| greater than 3 years | 50 | 19.67 | 28.62 | 50 | 36.17 | 44.22 | 50 | 40.19 | 56.59 | na | na | na |
| Pigs | less than 7 months | 32 | 20.19 | 25.39 | 32 | 60.37 | 95.61 | 32 | 22.99 | 31.09 | na | na | na |
| greater than 7 months | 29 | 19.46 | 29.54 | 29 | 72.06 | 97.50 | 29 | 32.07 | 45.59 | na | na | na |
| Horses | 2 to 5 years | 20 | 25.69 | 30.84 | 20 | 77.31 | 124.24 | 20 | 33.83 | 39.25 | na | na | na |
| 5 to 8 years | 18 | 22.21 | 26.18 | 18 | 49.94 | 116.35 | 18 | 30.60 | 38.31 | na | na | na |
| greater than 8 years | 22 | 23.48 | 28.10 | 22 | 54.54 | 111.65 | 22 | 34.97 | 43.51 | na | na | na |
| Poultry | 35 to 52 days | na | na | na | 75 | 24.74 | 35.08 | 75 | 5.35 | 6.08 | na | na | na |
| all | na | na | na | na | na | na | na | na | na | 150 | 9.59 | 11.13 |

**Note:** ‘na’ means Not Applicable.

## Zirconium (Zr)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Animal product** | **Age** | **Kidney** | | | **Liver** | | | **Muscle** | | | **Eggs** | | |
| **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** | **Total samples** | **Median** | **90th percentile** |
| Cattle | 5 months to 2 years | 138 | 0 | 0 | 138 | 0 | 0 | 138 | 0 | 0 | na | na | na |
| 2 to 4 years | 136 | 0 | 0 | 136 | 0 | 0 | 136 | 0 | 0 | na | na | na |
| greater than 4 years | 136 | 0 | 0 | 136 | 0 | 0 | 136 | 0 | 0 | na | na | na |
| Sheep | less than 12 months | 49 | 0 | 0 | 49 | 0 | 0 | 49 | 0 | 0 | na | na | na |
| 1 to 3 years | 53 | 0 | 0 | 53 | 0 | 0 | 53 | 0 | 0 | na | na | na |
| greater than 3 years | 50 | 0 | 0 | 50 | 0 | 0.01 | 50 | 0 | 0 | na | na | na |
| Pigs | less than 7 months | 32 | 0 | 0 | 32 | 0 | 0 | 32 | 0 | 0 | na | na | na |
| greater than 7 months | 29 | 0 | 0 | 29 | 0 | 0 | 29 | 0 | 0 | na | na | na |
| Horses | 2 to 5 years | 20 | 0 | 0 | 20 | 0.01 | 0.08 | 20 | 0 | 0 | na | na | na |
| 5 to 8 years | 18 | 0 | 0 | 18 | 0.03 | 0.09 | 18 | 0 | 0 | na | na | na |
| greater than 8 years | 22 | 0 | 0 | 22 | 0.02 | 0.04 | 22 | 0 | 0 | na | na | na |
| Poultry | 35 to 52 days | na | na | na | 75 | 0 | 0 | 75 | 0 | 0 | na | na | na |
| all | na | na | na | na | na | na | na | na | na | 150 | 0 | 0 |

**Note:** ‘na’ means Not Applicable.