



## 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.