**S2 Table. Fixed parameters used in the productivity model: average weights and ages at birth, weaning and maturity in the different cattle categories.**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Beef sector | | | | | | | |
|  | | Weight at birth (kg) | Weight at weaning  (kg) | Weight at maturity (kg)\* | Average daily gain (kg/day) birth-150 days | Average daily gain (kg/day)  150-250 days | Average daily gain (kg/day)  >250 days |
| Female | Breeding herd replacement | 45 | 300 | 675\*\* | 1.04 | 1.11 | 0.49 |
| Weanling | 45 | 300 | 325 | 1.04 | 1.11 | 0.49 |
| Heifer sold after 1 year old without calving | 45 | 300 | 688 | 1.04 | 1.11 | 0.49 |
| Male | Breeding herd replacement | 48 | 325 | 1000 | 1.14 | 1.34 | 1.49 |
| Light weanling | 48 | 300 | 300 | 1.14 | 1.34 | 1.49 |
| Heavy weanling | 48 | 325 | 420 | 1.14 | 1.34 | 1.49 |
| Young bull | 48 | 325 | 755 | 1.14 | 1.34 | 1.49 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Dairy sector (without veal production) | | | | | | | |
|  | | Weight at birth (kg) | Weight at weaning  (kg) | Weight at maturity (kg) | Average daily gain (kg/day) birth-150 days | Average daily gain (kg/day)  >150 days | |
| Female | Breeding herd replacement | 41 | 100 | 630\*\*\* | 0.82 | 0.67 | |
| Heifer sold after 1 year old without calving | 41 | 100 | 620 | 0.82 | 0.67 | |
| Male | Breeding herd replacement | 43 | 150 | 800 | 1.04 | 1.08 | |
| Young bull | 43 | 150 | 666 | 1.04 | 1.08 | |
| Veal production (dairy sector) | | | | | | | |
|  | | Weight at birth (kg) | Age at introduction in feedlot/export (days) | Age at maturity (days) | Weight at introduction in feedlot/export (kg) | Average daily gain (kg/day) birth-7 days | Average daily gain (kg/day) 7 days to sale |
| Female | Veal | 41 | 7 | 182 | 45 | 0.8 | 1.1 |
| Male | Veal | 43 | 7 | 182 | 48 | 1 | 1.1 |
| Export | 43 | 7 |  |  | 1 |  |

\*age and weight at maturity of breeding females (cows) correspond to the age/weight at first calving.

\*\*culling weight of beef cows: 750 kg

\*\*\*culling weight of dairy cows: 700 kg

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