Number of Livestock and irrigation areas per region

Livestock

Table

Description automatically generated

For the calculation of the water demand only mammals should be considered. The numbers presented in the graph represent the numbers of 2014.

The number of livestock increases by 2-3% per year which has to be corrected for the chosen year.

Source:

<https://livestocklab.ifas.ufl.edu/media/livestocklabifasufledu/pdf-/pdfs-by-country-pre2019/BF_ASFProd_Mark_02082017.pdf>

Furthermore, to calculate the water demand, the number of animals must be converted to tropical livestock units (TLU). Therefore, the amount of cattle has to get multiplied with a factor of 0,7, the number of pigs with a factor of 0,2, the amount of sheep and goats with a factor of 0,1 and the number of birds with a factor of 0,01.

Source:

<https://productions-animales.org/article/view/4855/17716>

After these two corrections the amount of TLUs per region is as follows:

|  |  |
| --- | --- |
| **Region** | **TLU** |
| Boucle du Mouhoun | 1131029 |
| Cascades | 721229,7 |
| Centre | 283858,7 |
| Centre-Est | 720595,4 |
| Centre-Nord | 816612,1 |
| Centre-Ouest | 1203625 |
| Centre-Sud | 515176,2 |
| Est | 1338991 |
| Hauts-Bassins | 1755962 |
| Nord | 733246,8 |
| Plateau Central | 539122,7 |
| Sahel | 2220477 |
| Sud-Ouest | 541879,7 |

Irrigation area

Table

Description automatically generated

This is data from 2001. The amount of total irrigated areas has actually increased to 55 000 ha in 2020. Different approaches could be used to determine the actual water demand at the time and to project water demand in the future. Due to the fact that other studies suggest, that the real amount of irrigated areas could be twice as high the data is just extrapolated based on the total growth, assuming that the distribution stays the same, for a first estimate.

Source: https://www.researchgate.net/publication/235704701\_Irrigation\_in\_Africa\_Europe\_and\_Latin\_America\_Update\_of\_the\_digital\_global\_map\_of\_irrigation\_areas\_to\_Version\_4