



Livestock animals , Environment and Sustainable Development in Rwanda

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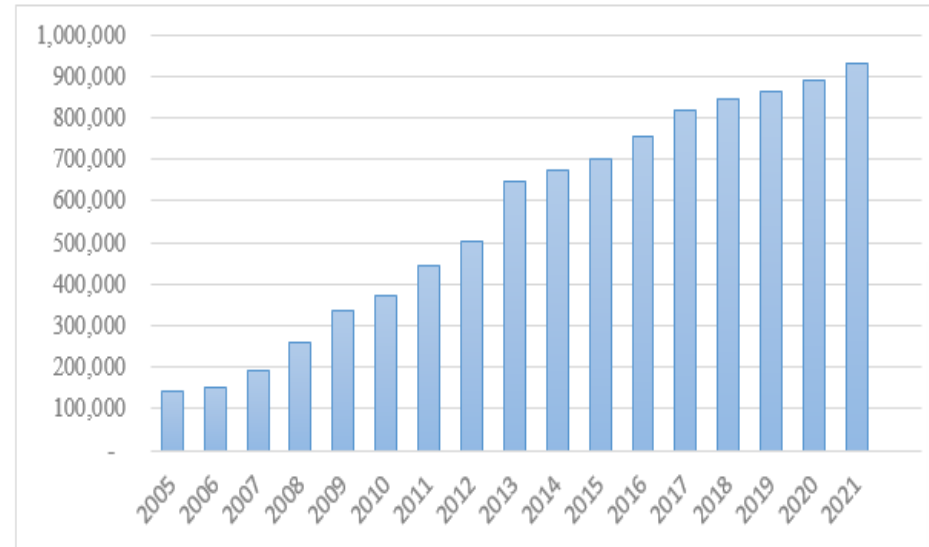
Rwandan Livestock Sector

- The Rwandan livestock industry showed a significant growth in the last decades and is still expected to expand with the national growing economy.
- Important efforts have been deployed by the GoR to strengthen the national livestock sector.
- The GoR is committed to continue develop the livestock sub sector in the way that animals matter for sustainable development and sustainable development matters for animals



I. Dairy Sub-sector in Rwanda

- Growing milk production



The national milk production increased from **142,511 Metric Tons** in 2005 to **999,976 Metric Tons** in 2021/22 (over 700% increase) and is expected to grow as the national target is to reach **1,274,554 Metric Tons** of milk per year by 2024.

Dairy Value Chain status in Rwanda

- **Milk aggregation**



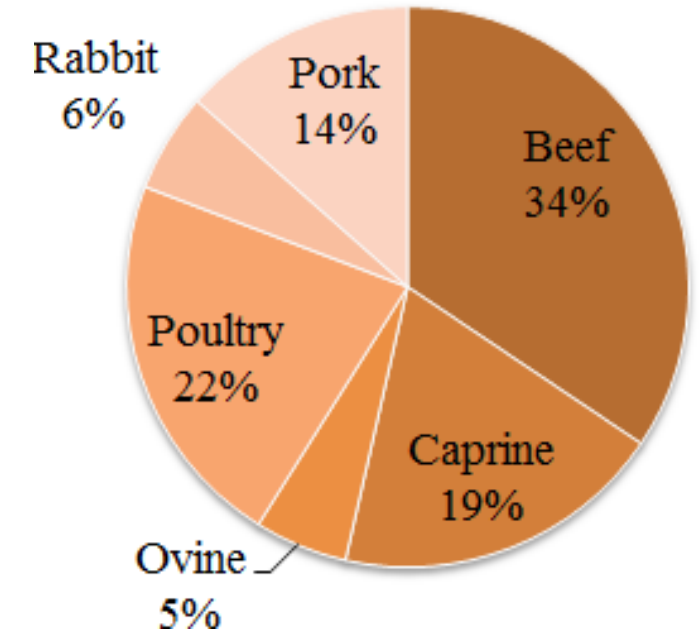
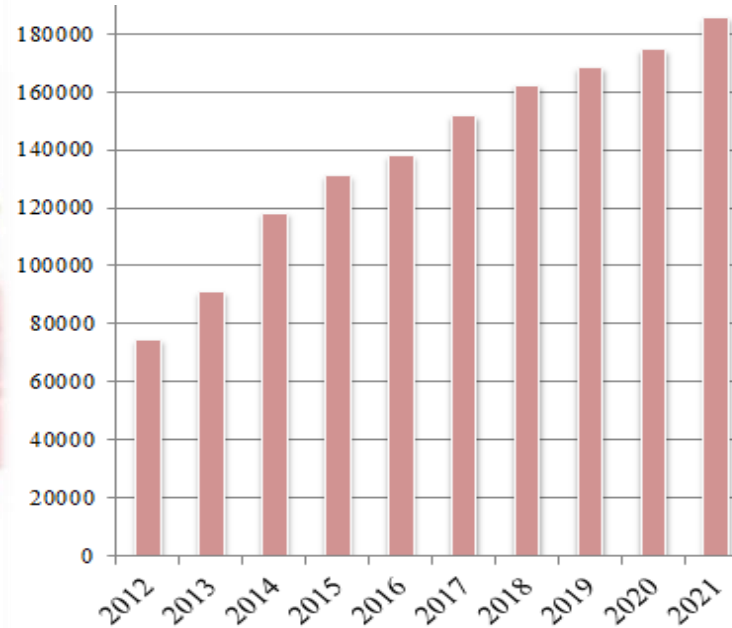
- The country counts a total of 132 Milk Collection Centres (MCCs) with a total installed cooling capacity of 483,000L per day.

- **Milk Processing**

- A total of 50 milk processing plants (7 large and 43 SMEs) with a total installed capacity of **254,000L/day**.
- A milk powder processing plant under construction with a capacity of **600,000L/day**



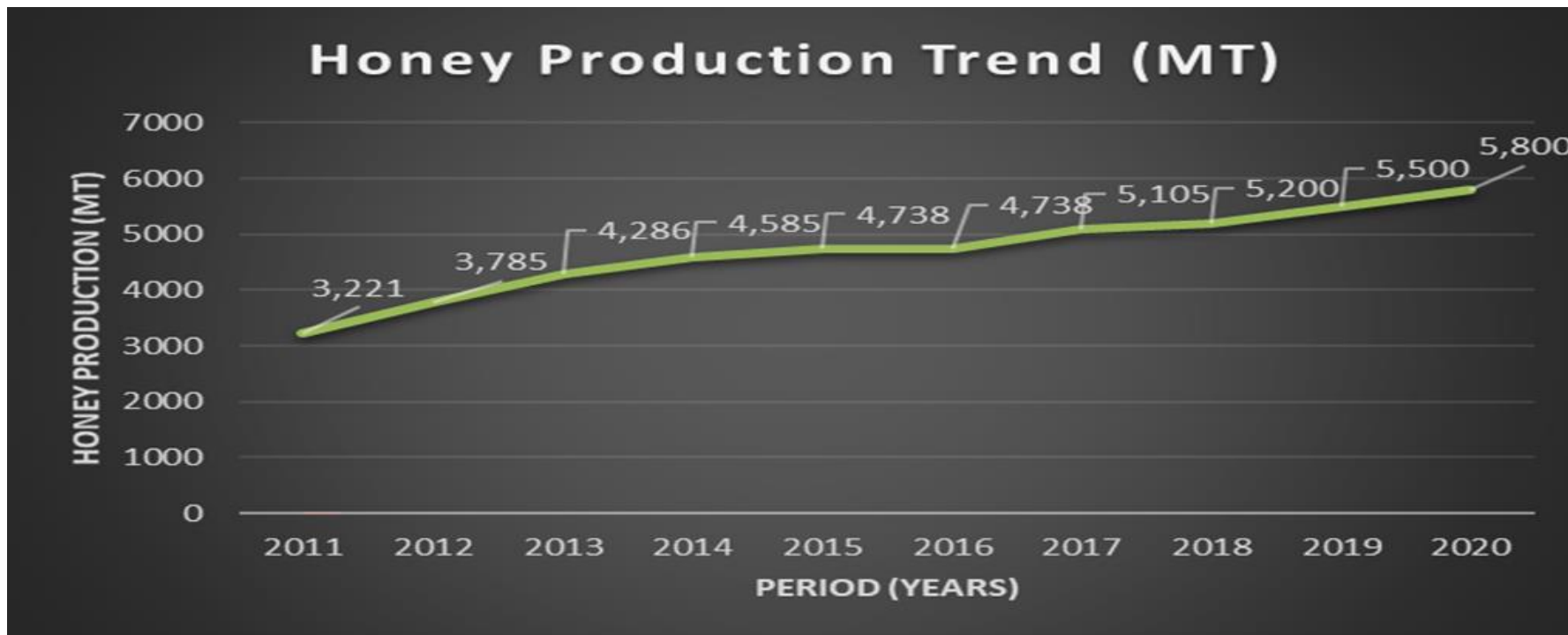
II. Meat production sub-sector in Rwanda



The national meat production increased from **118,348 Metric Tons** in 2012 to **185,989 Metric Tons** in 2021/22 with a target of **215,078 Metric Tons** by 2024. Meat production is dominated by beef representing **34%** of the national production.

III. Honey production sub-sector in Rwanda

- Rwanda recognises honey production as one of the economic activities with great potential of improving the livelihood of the people in the rural and urban communities and a sustainable way of forest utilisation.



- The Rwanda's honey is sold locally and regionally in the neighboring countries and since 2016 it was allowed to be sold in EU countries and recently in China.

Honey Value Chain in Rwanda

- **Honey collection**



- The country counts a total of 52 honey Collection Centres (MCCs) and 2 honey factories (Rutsiro and Nyamagabe)

- **Honey Processing**

- Total national annual production (MT) : 5,800/6000
- Total no. of Honey processors companies : 20
- Quality - certified processors and exporters: 10 companies.
- Farm gate price : 3.5 USD/Kg



IV. AQUACULTURE PRODUCTION SYSTEMS



10 private investors. 3,458,000 fingerlings are produced, and the target for 2024 is 4,004,167 fingerlings per month



Cage Fish Farming: **35 operational farms** in cages in Lakes Kivu and Muhazi. Twin lakes (Burera and Ruhondo) are also suitable for cage farming with a limitation of the availability of Coldwater Species with a better growth rate than Tilapia. 2,225,562 kg is the current production from all operators and 6,579,300 kg is targeted to be achieved in 2023/2024.



Tank and Pond Fish Farming: 2 farms in tanks and 130 farms in ponds with 96 productive farms.



Fish Farming in Dam 2,184,713 Tilapia fingerlings have been stocked in 35 Irrigation dams. The estimated annual production is 786,496.68 and the stocking is still ongoing

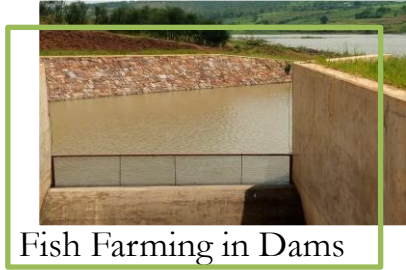
Current Modern Fish Farming systems used in Rwanda



Cage Fish Farming



Pond Fish Farming



Fish Farming in Dams



Tank Fish Farming



Rice Fish Integration

Applies regulations on health and environment matters



Breeding Happs



Incubator



Tilapia Fingerlings

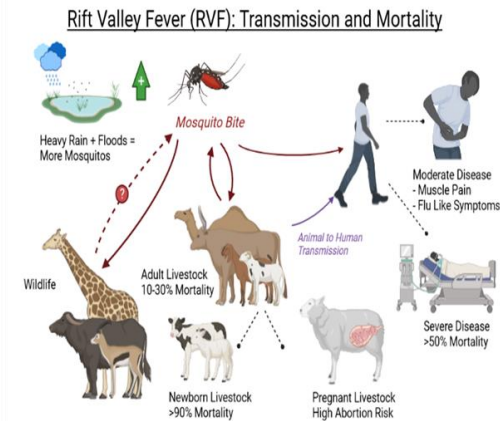


Indoor Breeding and Broodstock holding tanks

Building Veterinary Services' climate resilience

While animal production contributes to greenhouse gas emissions, animal health is also affected by climate change.

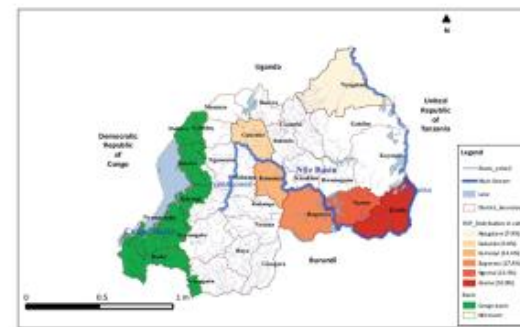
For these reasons, climate change is inherently an animal health issue.



- Ensure better preparedness and response to global threat
- Raised awareness on how the control of animal diseases
- Anticipate high-risk situations and respond with early interventions



RVF outbreak: 2018 and 2022



RVF out break of 2018



RVF out break of 2022

Semen & animal vaccines delivered using drones

- 7 Pig breeding centers countrywide established ;
- Around 20,000 doses of swine semen distributed per year;
- 487 zipline dropsites in all Districts.
- Ongoing trial for bovine semen
- <https://www.dw.com/en/using-drones-in-rwanda-to-deliver-semen-to-rural-breeders/video-62228464>
- <https://www.youtube.com/watch?v=yobN6ufDVjc&t=59s>



Greening Girinka

- Climate smart approaches and technologies for the intensification of smallholder crop-livestock farm systems are identified and tested;
- The capacity of stakeholders involved in the intensification of crop-livestock systems is developed in climate-smart approaches and technologies;

Smallholder farmers

(Girinka beneficiaries /

Once cow per poor family

program **applying**

appropriate climate

positive approaches &

techniques



Dog welfare in Rwanda:



WAG Rwanda – Rwandan NGO running Rwanda’s only dog shelter

Focuses on rescuing, rehabilitating and rehoming street dogs

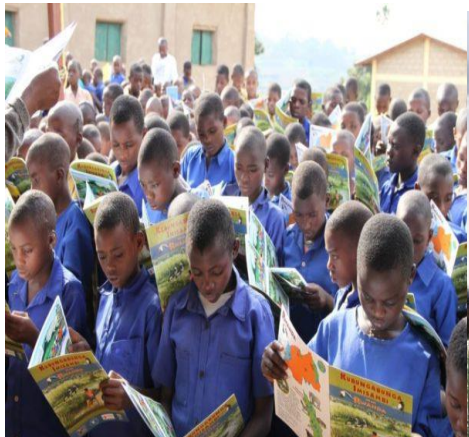
Plus --

- Dog ownership education
- Community engagement & low cost sterilizations
- Research
- Part of national rabies elimination working group



Rwanda Wildlife/animal Conservation

- Provide sustainable solutions to critical wildlife conservation issues in Rwanda and the East African region using a holistic and multi-disciplinary, One Health Approach.”
- Work with local communities to encourage local people to take pride in Rwanda’s wildlife. Change attitudes and behaviours towards wildlife and their habitat.
- Saving the endangered grey crowned cranes
- Raise awareness and increase collaboration between government institutions and other stakeholders on Illegal Wildlife Trafficking
- Conservation of animal genetic resources



Thank you