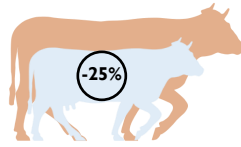


Increasing Availability of Animal-Source Foods through Quality Feeds

THE ISSUE

Feed is the number one constraint to livestock productivity as identified by key livestock stakeholders in Burkina Faso, Niger, Ethiopia, Rwanda, Nepal and Cambodia.

Feed accounts for 50% to 80% of costs of livestock production¹



Productivity gained by genetic advances may decrease by 25% without quality feed²

It is becoming increasingly obvious that we won't realize the potential gains in our investments in health and genetics without addressing feed.²

– Kristen MacNaughtan, Bill & Melinda Gates Foundation

Lack of access to quality feed prevents smallholder farmers from seizing opportunities to improve income and human nutrition through increased livestock productivity and production.

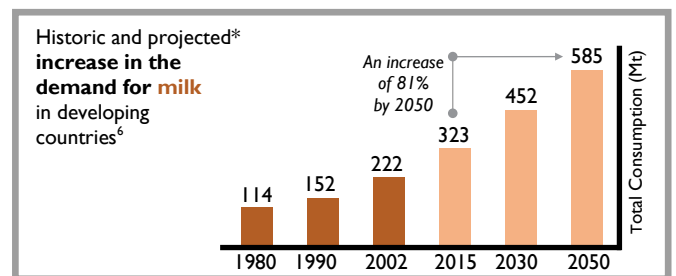
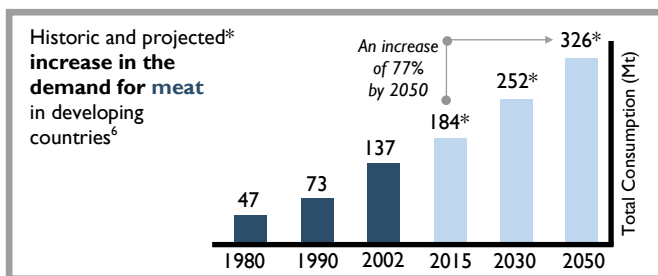
GLOBAL IMPORTANCE

In **Burkina Faso**, quality feed increased weight gain in sheep and goats by 47%³

In **Nepal**, feed deficits mean that only one-third of the feed requirements for livestock production are met⁴

In **Ethiopia**, quality feed and improved herd structure could increase milk production by nearly 130%⁵

Due to rapidly increasing populations, urbanization and income growth, the demand for animal-source food, such as milk and meat, in sub-Saharan Africa and Southeast Asia, is projected to increase substantially by 2050, compared to 2015 levels.⁶



LOOKING AHEAD

Research and development efforts are needed to increase access to quality feed is critical to meet the projected increases in the demand for animal-source food by 2050 and to increase smallholder incomes.

1 Understand the Context

Use participatory methods to prioritize research and integrate gender throughout project activities

2 Close Knowledge Gaps through Research

E.g., Research on the nutritional requirements of indigenous and crossbred animals to formulate optimally balanced diets

3 Work with Farmers to Build Capacity

Conduct on-farm feeding trials to show farmers best bet feeding approaches and the economic returns

4 Scale Up Innovations

Work with government, NGOs and private sector systems to adopt and scale up feed innovations

Feed the Future Innovation Lab for Livestock Systems

Based on the 2018 Global Nutrition Symposium presentations, available at <http://livestocklab.ifas.ufl.edu>



Sources: 1. Chamberlain & Wilkinson, 1996; DeLorenzo et al., 1992; Abright et al., 2016 | 2. MacNaughtan, K., 2018 | 3. Tamini et al., 2014 | 4. Parivar, 1998 | 5. Herrero et al., 2015 | 6. Thornton, 2010