IMPACT Model: Application to Livestock Sector Scenarios

Key messages

- IMPACT is a network of linked economic, water, crop and livestock models simulating the global production, demand and trade of agricultural and food commodities.

- Model is used in the assessment of long-term opportunities and challenges facing global food and agriculture. It generates projections for plausible scenarios of the future. It does not generate predictions.

- Policy Makers, Donors and Research Managers can use the IMPACT model’s projections for informing the allocation of resources to and within the global agricultural sector.

Livestock-based solutions

- IMPACT simulates long-term (e.g., to 2050) projections on the supply, demand and trade (in national and international markets) of livestock commodities; how these change with the underlying drivers of technological, socio-economic and environmental change; and the impacts on populations and the environment.

- Impacts are measured in terms of agricultural incomes (producer revenues, household expenditures), food and nutrition security (e.g., hunger, malnutrition, diet diversity), and the environment (e.g., water use and quality, greenhouse gas emissions).

- Application to eight-country study showed consumption and production of Livestock-derived foods (LDF) to grow substantially, but most of the study countries will import the bulk of their nutrient needs by 2050. Survey data revealed scope for smallholder households to benefit from livestock-related improvements in incomes and child nutrition.

Scale of the tool

- Six livestock value chains
- Eight global livestock production systems
- Commodity markets in 159 Countries
- One world market for each commodity

Status of the tool

- Standard model version fully rolled out and widely available (IMPACT v3)
- Model version with detailed livestock sector under Testing at small scale

Contacts:

IFPRI-Impact-Model@cgiar.org
http://impact-model.ifpri.org/

ILRI contact: Dolapo Enahoro – d.Enahoro@cgiar.org

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