Livestock Yield Gaps

To what extent can livestock productivity be improved?

LD4D LIVESTOCK DATA FOR DECISIONS

References

1 **Henderson, B., Godde, C., Medina-Hidalgo, D., van Wijk, M., Silvestri, S., Douxchamps, S., Stephenson, E., Power, B., Rigolot, C., Cacho, O. and Herrero, M. 2016.** Closing system-wide yield gaps to increase food production and mitigate GHGs among mixed crop-livestock smallholders in Sub-Saharan Africa. Agricultural Systems, 143: 106-113.

Available at: https://www.sciencedirect.com/science/article/pii/S0308521X15300640

2 **Cortez-Arriola, J., Groot, J. C. J., Améndola Massiotti, R. D., Scholberg, J. M. S., Valentina Mariscal Aguayo, D., Tittonell, P. & Rossing, W. A. H. 2014.** Resource use efficiency and farm productivity gaps of smallholder dairy farming in North-west Michoacán, Mexico. Agricultural Systems, 126: 15-24.

Available at: https://www.sciencedirect.com/science/article/pii/S0308521X13001352

3 **van der Linden, A., Oosting, S. J., van de Ven, G. W. J., de Boer, I. J. M. & van Ittersum, M. K. 2015.** A framework for quantitative analysis of livestock systems using theoretical concepts of production ecology. Agricultural Systems, 139: 100-109.

Available at: https://www.sciencedirect.com/science/article/pii/S0308521X15300020

4 **Mayberry, D., Ash, A., Prestwidge, D., Godde, C. M., Henderson, B., Duncan, A., Blummel, M., Ramana Reddy, Y. and Herrero, M. 2017.** Yield gap analyses to estimate attainable bovine milk yields and evaluate options to increase production in Ethiopia and India. Agricultural Systems, 155: 43-51.

Available at: https://www.ncbi.nlm.nih.gov/pubmed/28701809

5 **Tittonell, P. and Giller, K. E. 2013.** When yield gaps are poverty traps: The paradigm of ecological intensification in African smallholder agriculture. Field Crops Research, 143: 76-90.

Available at: https://www.sciencedirect.com/science/article/pii/S0378429012003346

6 **Herrero, M., Mayberry, D., Van de Steeg, J., Phelan, D., Ash, A., Diyezee, K., Robinson, T., Henderson, B., Gilbert, M., Van Wijk, M., Godde, C., Blummel, M., Prestwidge, D., Stephenson, E., Power, B. and Parsons, D. 2016.** Understanding livestock yield gaps for poverty alleviation food security and the environment: The LiveGAPS Project. CSIRO, Brisbane, Australia.

Available at: https://research.csiro.au/livegaps/wp-content/uploads/sites/37/2015/08/Herrero-et-al.-2016.-Understanding-livestock-yield-gaps-for-poverty-alleviation-food-security-and-the-environment.pdf

7 **Salmon, G., Teufel, N., Baltenweck, I., van Wijk, M., Claessens, L. and Marshall, K. 2018.** Trade-offs in livestock development at farm level: Different actors with different objectives. Global Food Security, 17: 103-112.

Available at: https://www.sciencedirect.com/science/article/pii/S2211912417301372

8 **CSIRO. 2018.** LiveGAPS. Online accessed 04/01/2018.

Available at: https://research.csiro.au/livegaps/

9 **Mayberry, D., Ash, A., Prestwidge, D. and Herrero, M. 2018.** Closing yield gaps in smallholder goat production systems in Ethiopia and India. Livestock Science, 214: 238-244.

Available at: https://www.sciencedirect.com/science/article/pii/S1871141318301914

10 **Kosgey, I. S. and Okeyo, A. M. 2007.** Genetic improvement of small ruminants in low-input, smallholder production systems: Technical and infrastructural issues. Small Ruminant Research, 70: 76-88.

Available at: https://www.sciencedirect.com/science/article/pii/S0921448807000120

11 **Thorpe, W., Muriuki, H. G., Omore, A., Owango, M. O. and Staal, S. 2000.** Dairy development in Kenya: the past, the present and the future. In Annual Symposium of the Animal Production Society of Kenya (KARI Headquarters, Nairobi.

Available at: https://cgspace.cgiar.org/handle/10568/1723

12 **Peacock, C., Ahuya, C. O., Ojango, J. M. K. and Okeyo, A. M. 2011.** Practical crossbreeding for improved livelihoods in developing countries: The FARM Africa goat project. Livestock Science, 136: 38-44.

Available at: https://www.sciencedirect.com/science/article/pii/S1871141310004798

13 **Rege, J. E. O., Marshall, K., Notenbaert, A., Ojango, J. M. K. and Okeyo, A. M. 2011.** Pro-poor animal improvement and breeding — What can science do? Livestock Science, 136: 15-28.

Available at: https://www.sciencedirect.com/science/article/pii/S1871141310004774