



# Animal census of two Eastern Cape rural wards: preliminary results for cattle



Hervé-Claude LP<sup>(1)</sup>, Lwanga-Iga I<sup>(2)</sup>, Kroll-Lwanga-Iga S<sup>(2)</sup>, Nyangiwe N<sup>(3)</sup>, Nkubungu Y<sup>(2)</sup>, Majavu N<sup>(2)</sup>, Matshoba T<sup>(2)</sup>, Koesters S<sup>(1)</sup>, Kreienbrock L<sup>(1)</sup>

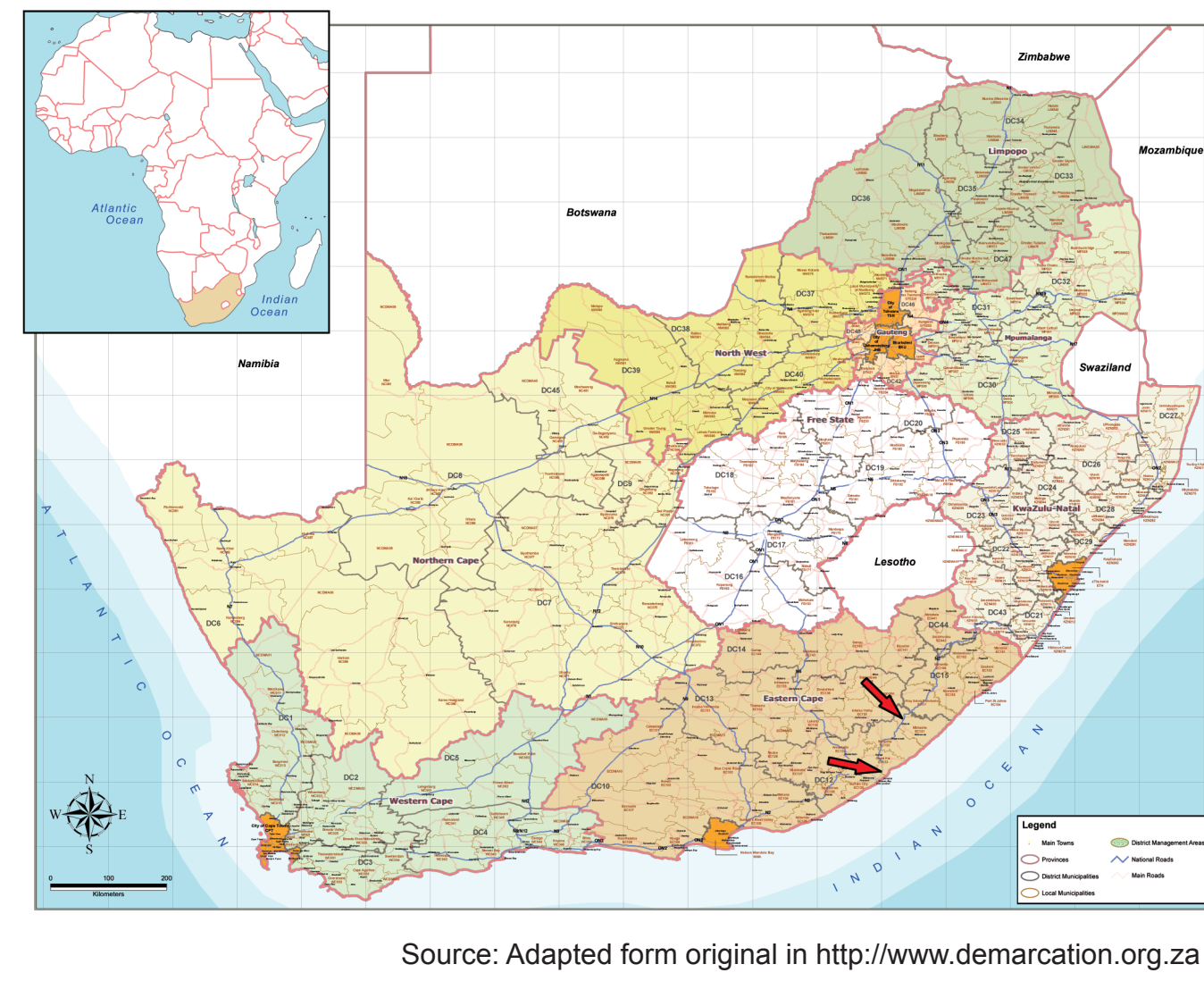


<sup>1</sup> Department of Biometry, Epidemiology and Information Processing and WHO Collaborating Centre for Research and Training in Veterinary Public Health. University of Veterinary Medicine, Hannover, Germany,  
<sup>2</sup> Animal Disease Surveillance Unit. Eastern Cape Provincial Department of Agriculture, East London, South Africa  
<sup>3</sup> Döhne Agricultural Development Institute, Eastern Cape Provincial Department of Agriculture, Stutterheim, South Africa



## Introduction

The Eastern Cape Animal Information System Amathole (ECAISA) is an animal census project in rural areas of the Amathole District Municipality in South Africa.



The objective is to generate key information on animal numbers and sanitary status for the Eastern Cape State Veterinary Services.

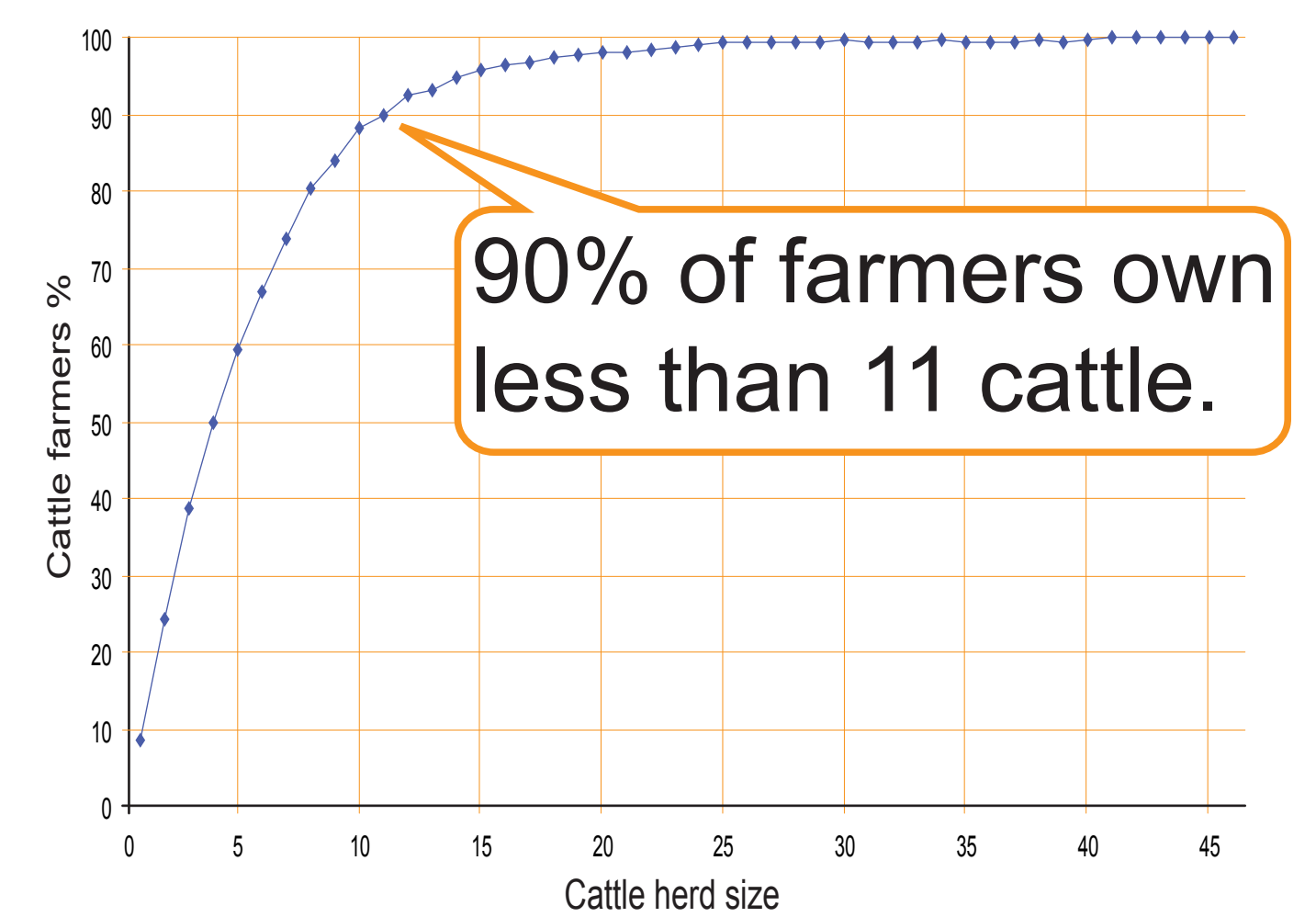
20 data collectors completed 2177 questionnaires in a two week field period. Partial cattle preliminary results with pooled data are presented here.

## Results: Herd Size

Farmers in rural areas were asked about the total number of cattle owned.

The most common herd size was of 2 animals.

Bigger than 20 animals herds were extremely rare (20 of 976 farmers) in the study areas.

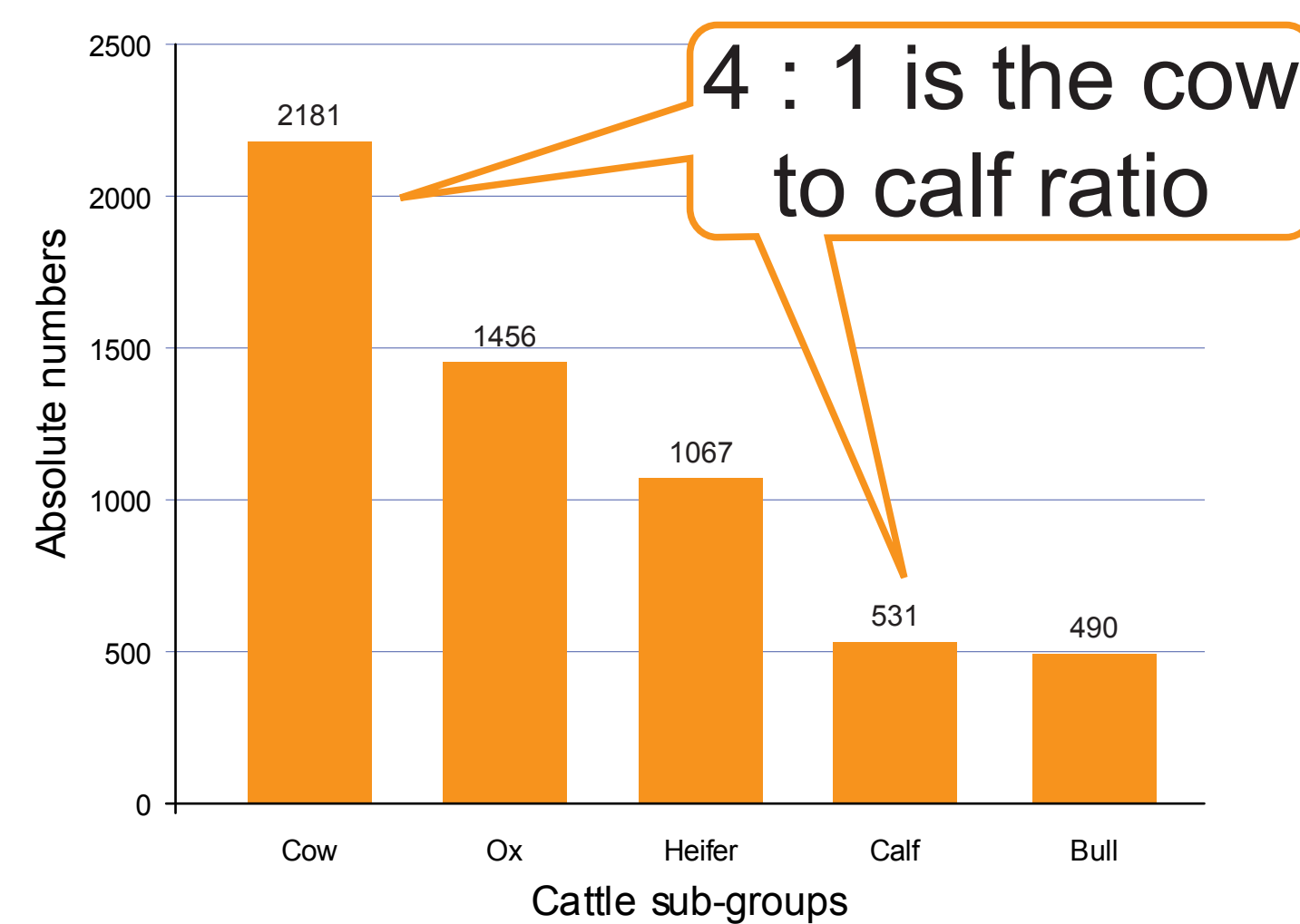


Cattle population cumulative density function

There were 5719 cattle owned by 976 farmers in the area, representing 45% of all interviewed farmers in the study.

## Results: Population Sub-groups

The cattle sub-groups found in the study area were:  
cows 38%  
oxen 25%  
heifers 19%  
bulls 9%  
calves 9%



Both the cow - calf and the cow - bull ratios are ~4:1. This situation speaks of a relatively high bull proportion and low fertility rates. Also of interest is that only 30% of herds contain at least one bull.

This data aggregated hundreds of small cattle herds and does not represent a single production unit.

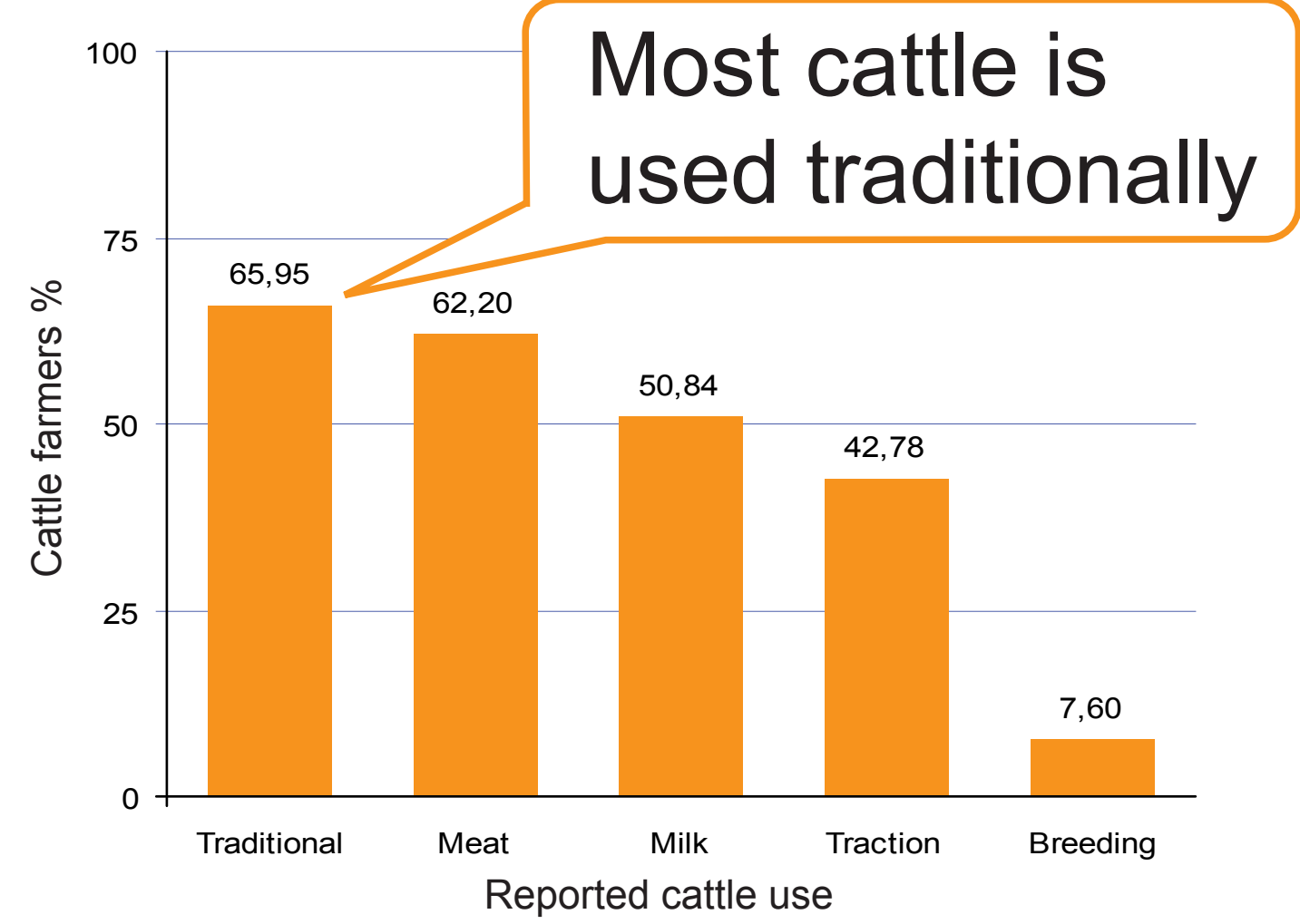
## Results: Intended Use

The most commonly reported use for cattle is described as "traditional", meaning as gifts, for ceremonies and also as a source of pride and respect.

Milk and milk derivatives are regularly produced.

Meat production, mentioned as one of the main purposes for cattle ownership, is low and animals are rarely slaughtered.

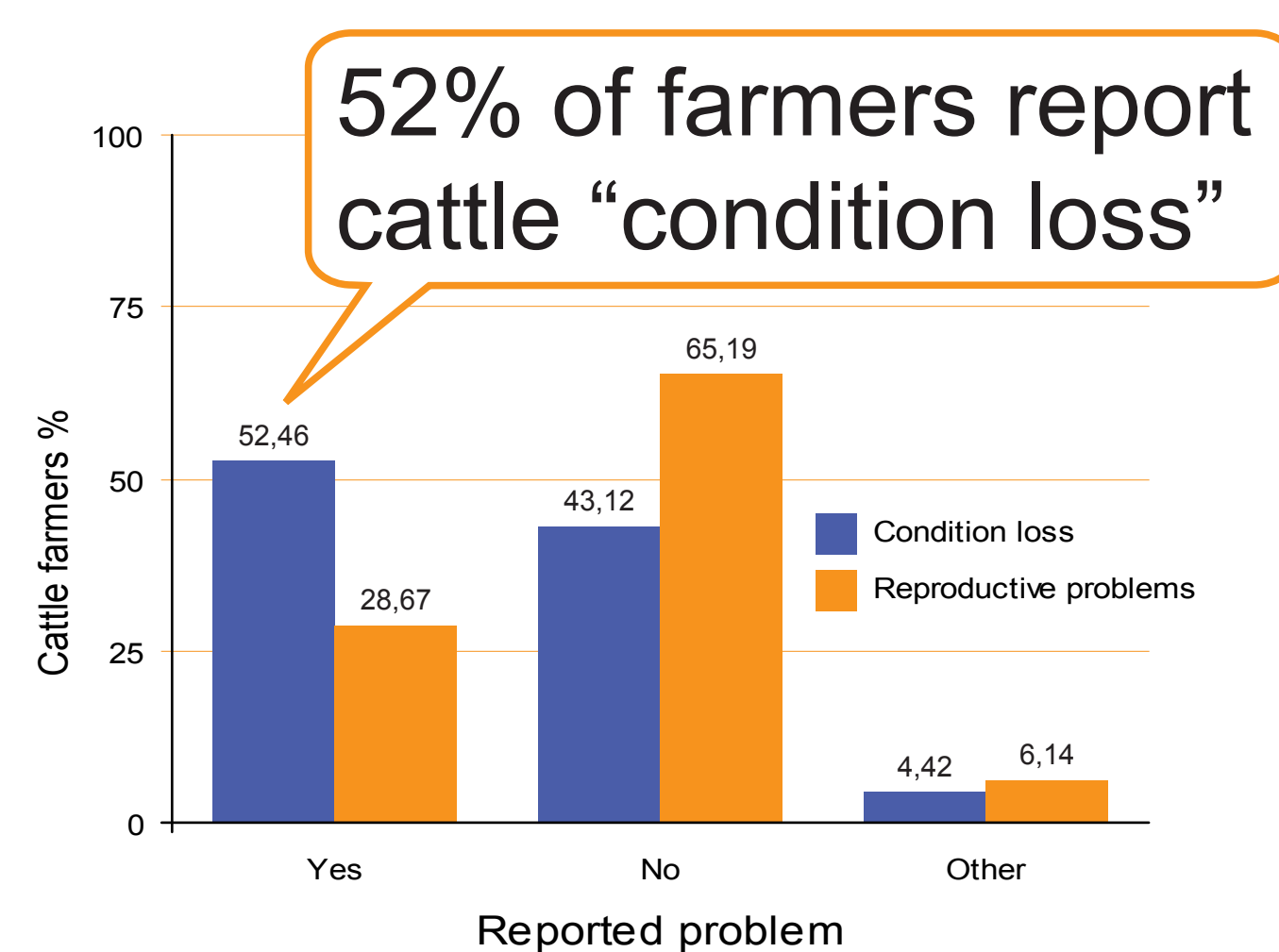
Consequently with the low reproduction ratios, less than 8% of animals are kept for breeding purposes.



## Results: Cattle Health

The most commonly mentioned aspects were:

★ "Condition Loss", probably due to natural grass seasonality (the main feed source) and poor sanitary and disease status.



★ "Reproductive problems" were mentioned by almost one third of cattle farmers and is probably due to multiple factors like the already mentioned bad nutritional and disease status.

## Conclusions

Main conclusions at this stage are:

- ★ Bulls, cows and calves proportions are apparently not appropriate for cattle breeding.
- ★ Although meat and milk production are of interest, the most reported use is still traditional.

These rural cattle populations have mainly a non-commercial purpose, and therefore recommendations and measures to increase production, animal condition or fertility rates need to consider the strong cultural factors present.