

The ECAISA Pilot Project: General results, strengths and Challenges

Hervé-Claude LP¹, Lwanga-Iga I², Kroll-Lwanga-Iga S², N Nyangiwe³,
Nkubungu Y², Majavo N² & Kreienbrock L¹

(1) Institute for Biometry, Epidemiology and Information Processing, WHO-Collaborating Centre for Research and Training in Veterinary Public Health, University of Veterinary Medicine of Hannover, Foundation

(2) The Animal Diseases Surveillance Unit, State Veterinary Services, Department of Agriculture & Rural development, Eastern Cape Province

(3) Döhne Agricultural Development Institute, Department of Agriculture & Rural development, Eastern Cape Province



Study area and objectives



Adapted from original in <http://www.demarcation.org.za/>

- ▶ To serve as preparation for the Provincial census
- ▶ Test methodologies

24.06.2010

ISVEE XII ECAISA Pilot Census Study

2

Pilot Census Study

Ward	Personnel	Vehicles	Days
3 Great kei	8	2 - 3	7
4 Mbashe	16	3 - 4	7
Total	24	5 - 7	7

24.06.2010

ISVEE XII ECAISA Pilot Census Study

3

General Overview

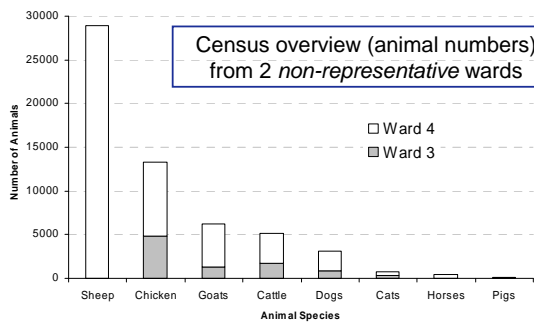
- ▶ 2179 farmers (100%)
- ▶ Animal information
 - ▶ Population structure, numbers, etc.
 - ▶ Sanitary Animal Status (AHS, Rabies, etc)
 - ▶ General farming issues (infrastructure, etc)
- ▶ Questionnaires, personnel, speed, logistics evaluation

24.06.2010

ISVEE XII ECAISA Pilot Census Study

4

Overview: Local Animal population



24.06.2010

ISVEE XII ECAISA Pilot Census Study

5

Interview field strategies

- ▶ "Door to door"



- ▶ "In vehicle"



24.06.2010

ISVEE XII ECAISA Pilot Census Study

6

Efficiency

- ▶ 8 to 16 data collectors per ward
- ▶ 2-4 vehicles per ward
- ▶ Ward
 - ▶ Ward 3: 40,558 sq. km.
 - ▶ 8 data collectors
 - ▶ Ward 4: 122,782 sq. km.
 - ▶ 16 data collectors



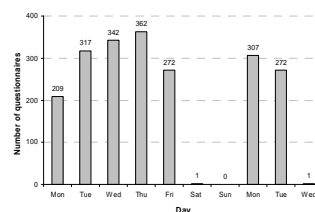
24.06.2010

ISVEE XII ECAISA Pilot Census Study

7

Efficiency

- ▶ In the whole pilot:
 - ▶ Max: 160 questionnaires (~23 per day)
 - ▶ Average: 75 questionnaires (~11 per day)
- ▶ Most effective in the early hours
- ▶ Weekend work not feasible



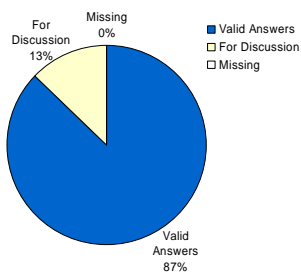
24.06.2010

ISVEE XII ECAISA Pilot Census Study

8

Questionnaire evaluation I

- ▶ Are you a commercial or a subsistence farmer?



24.06.2010

ISVEE XII ECAISA Pilot Census Study

9

Questionnaire evaluation II

Variable	Cattle Breed ownership						
	Valid Answers		For Discussion		Missing		Total
	N	%	N	%	N	%	N
Bonsmara Owned	1067	100	.	0	.	0	1067
Brahman Owned	1067	100	.	0	.	0	1067
Holsten Owned	1067	100	.	0	.	0	1067
Jersey Owned	1067	100	.	0	.	0	1067
Nguni Owned	1067	100	.	0	.	0	1067
Pinzgauer Owned	1067	100	.	0	.	0	1067
Other Breed Owned	.	0	.	0	1067	100	1067

24.06.2010

ISVEE XII ECAISA Pilot Census Study

10

Questionnaire evaluation III

Overall GPS readings evaluation

evaluation	n	%
Missing	299	13,7
For Discussion	714	32,8
Valid Answers	1105	50,7
Data entry swap	61	2,8
Total	2179	100



24.06.2010

ISVEE XII ECAISA Pilot Census Study

11

Questionnaire evaluation IV

"Farmers that indicated they own cattle but failed to report it later on in the questionnaire"

Total Cattle Reported No	N	%
= 0	84	7,87
> 0	983	92,13
Total	1067	100,00

24.06.2010

ISVEE XII ECAISA Pilot Census Study

12

Observed Greatest Strengths

- ▶ Data collectors were mostly State Veterinary Services personnel
- ▶ Deep knowledge of the area
- ▶ Good background information
- ▶ Good coordination in the field



24.06.2010

ISVEE XII ECAISA Pilot Census Study

13

Observed Greatest Challenges

- ▶ Working hours
- ▶ Logistics
- ▶ Equipment and training



24.06.2010

ISVEE XII ECAISA Pilot Census Study

14

Conclusions

- ▶ Farmers are highly cooperative
- ▶ Complete enumeration census is feasible
- ▶ Logistics must be coordinated
- ▶ Focused training is needed

24.06.2010

ISVEE XII ECAISA Pilot Census Study

15

Thanks, questions?



24.06.2010

ISVEE XII ECAISA Pilot Census Study

16