http://www.e-conference.elewa.org/agriculture.

## Current status of Brucellosis and helminthosis in cattle and goats in the southwestern rangeland zone of Uganda

<sup>1</sup>Ssewannyana E., <sup>1</sup>Kabi F., <sup>2</sup>Masembe C., <sup>3</sup>Nabukenya I. and <sup>4</sup>Mwebembezi W.

<sup>1</sup>National Livestock Resources Research Institute, Tororo, Uganda; <sup>2</sup>Institute of Environment and Natural Resources, Makerere University, Kampala, Uganda; <sup>3</sup>Zonal Agricultural Research and Development Institute, Mbarara, Uganda; <sup>4</sup>Veterinary Department, Mbarara, Uganda

\*Corresponding author email: edssewannyana@yahoo.com

## **ABSTRACT**

**不会会会会会会会会会会会会会会会会会会会会会** 

a cross-sectional study was undertaken with the main aim of establishing the current status of Brucellosis and Helminthosis in cattle and goats in the nine districts comprising the Southwestern Rangeland Zone (SWRZ) of Uganda. *Methodology and results*: Blood and faecal samples were collected from a total of randomly selected 912 cattle and 530 goats in the nine districts of Sembabule, Kiruhura, Rakai, Lyantonde, Isingiro, Mbarara, Bushenyi, Ntungamo and Ibanda. Serum was subsequently prepared from the blood samples and antibody titres for Brucellosis were established using the Indirect Enzyme Linked Immuno-sorbent Assay (ELISA) procedure. All the faecal samples were examined for Strongyle eggs using the standardized procedure of Macmaster technique. This study established that Kiruhura and

Objectives of study: Between July 2008 and September 2009,

Proceedings of the 3<sup>rd</sup> International e-Conference on Agricultural BioSciences 2010 Page: 62 – 63; Abstract ID: IeCAB010-328b

http://www.e-conference.elewa.org/agriculture.

highest prevalence of cattle Isingiro districts had the Brucellosis with sero-prevalences of 41 and 34%, respectively: while Ntungamo district had the lowest sero-prevalence of 5%. The sero-prevalence of Brucellosis in goats was highest in Rakai and Isingiro districts with sero-prevalences of 46 and 27%, respectively; while Ntungamo district had a seroprevalence of 1.9%. Cattle and goats more than 24 months old sero-prevalence of 50%. had the hiahest least Trichostrongylus, Strongyloides and Haemonchus eggs were the most commonly indentified, making these worm species the commonest cause of helminthosis which could be due to lack of host specificity.

Conclusion and application of findings: These findings will contribute to the improvement of strategies for the control of Brucellosis and Helminthosis in cattle and goats in SWRZ of Uganda.

**Key words:** Brucellosis, Helminthosis, Cattle, Goats, Rangeland

爷爷条条条条条条条条条条条条条条条条条