

# The application of advanced interactive Livestock Management Reports in INTERGIS, based on official milk performance recording

J du Toit<sup>1</sup>#, G Buchanan<sup>2</sup> and MJ Viljoen<sup>1</sup>

<sup>1</sup>ARC-Animal Production Institute, Private Bag x5013, Stellenbosch, South Africa 7599;

<sup>2</sup>ARC-Systems Development, P.O. Box 8783, Pretoria, South Africa 0001.

#Corresponding Author, (email): dtoitj@arc.agric.za

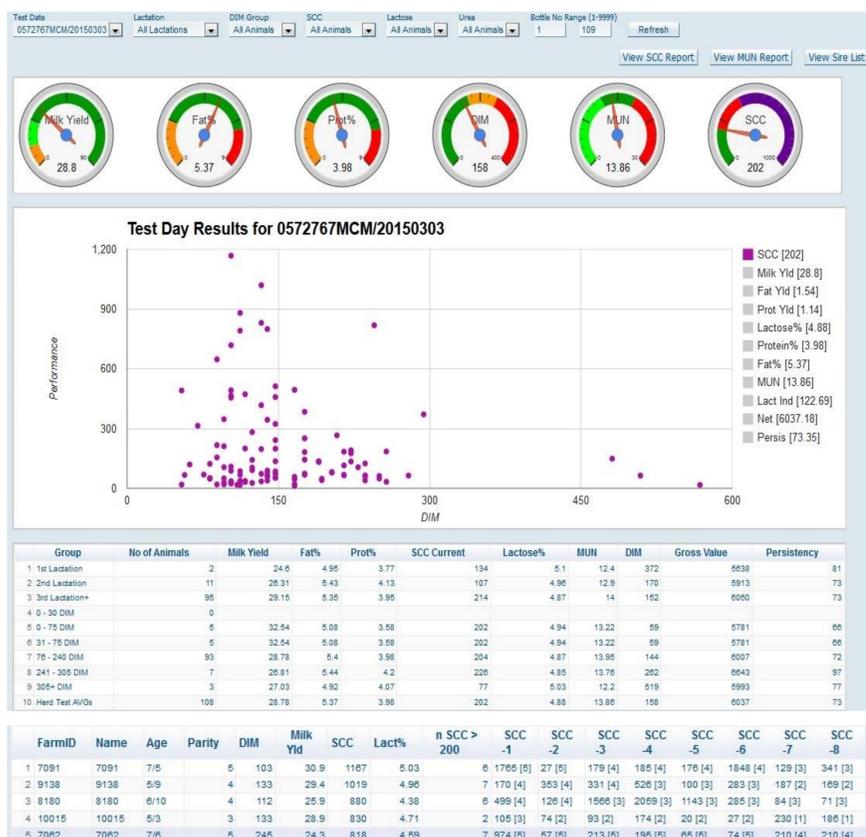
## INTRODUCTION

- Reporting on results from milk recording systems recently focus more on the relationship between production traits and management information.
- Health and nutritional traits are being included in performance recording.
- Development revolves around the evaluation of groups of cows within similar health and/or feeding treatment.
- Ongoing information being captured in INTERGIS (see Figure 1).

### Objective:

**The development and improvement of an interactive report system towards ensuring economic sustainability for dairy farms**

**Figure 2. Dashboard for Somatic Cell Count filtered on production or treatment group**



## DISCUSSION

- Feed requirements and health status of the herd can easily be monitored.
- In pasture-based systems MUN levels in milk assist farmers in managing fertilizer levels of pastures.
- Filter on individual and/or groups of animals for SCC, indicating problematic cows to be treated.
- MUN reports can also be filtered on values outside the standard norm.

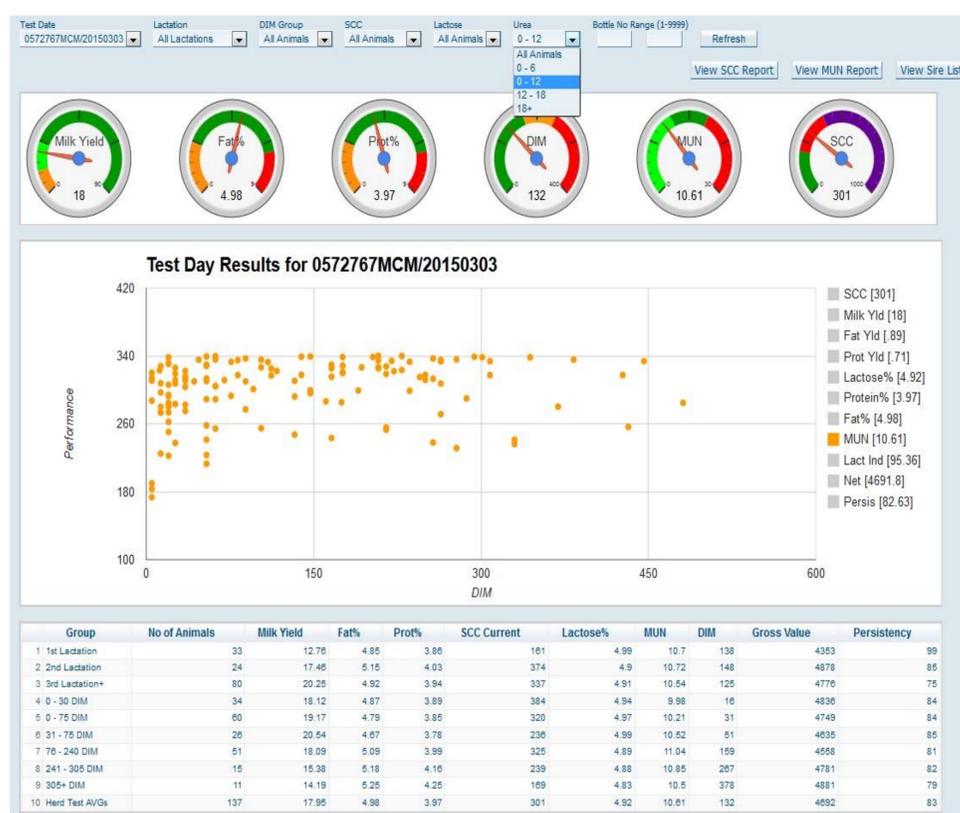
**Figure 1. Milk Dashboard on production traits and the dropdown menus with filters on performance**



## METHOD

- An existing scientifically based programme was upgraded to extend management options.
- State of the art technology was used to develop these functionalities.
- Evaluation of individual cow performance was extended to groups of cows with similar treatment.

**Figure 3. Dashboard for Milk Urea Nitrogen levels filtered on a group of cows below 12 mg/dl**



## CONCLUSION

- Based on management information, cow efficiency is improved by early intervention and management adjustments.
- The variety of reports offer the opportunity for animal scientists, feed consultants, veterinarians and extension officers to assist dairy farmers on aspects influencing herd efficiency and productivity.