



# DAIRY SCIENCE 2007

*Meeting the challenges for pasture-based dairying*

## **Genotype by calving system interaction for milk yield traits and calving interval in Holstein-Friesian cattle**

### **Short title: genotype by calving system interaction**

M. HAILE-MARIAM<sup>1</sup> and M.E. GODDARD<sup>1,2</sup>

<sup>1</sup>Animal Genetics and Genomics, Department of Primary Industries, Australia

<sup>2</sup>The University of Melbourne, Australia

# Is genotype by calving system interaction important?

Milk yield and calving interval (fertility) were analysed to test for the presence of genotype by calving system interaction

Genotypes are bulls that had progeny which produced in

- Split,
  - Year-round and
  - Seasonal
- } production environments

# **No evidence for genotype by calving system interaction**

- **Most bulls ranked similar across calving systems**
- **A few bulls showed a moderate level of re-ranking**
- **Farmers could use ABVs without worrying about genotype by calving system interaction**