



Primary Growth Partnership: Dairy Post - Farm Gate Programme Executive Summary (January to March 2013)

Adjustments to programme management have been completed in line with the strategic refresh by the business and all post-farm-gate themes are now making good progress against the business plan.

The projects in the area of creating and managing food structures are providing new knowledge for the improved management and development of new and existing products. Outputs from current projects have been successfully adopted into product development projects within Fonterra. These successes are also providing the confidence to include additional food structure design projects in the 2013/2014 business plan.

The Department of Mathematics and Statistics at Massey University is continuing to progress the creation of published material that will be used to bring about a more rational statistical framework for sampling of foods made in large industrial processes, such as the scale of dairy processing used in New Zealand. There is also exciting potential through the implementation of new process monitoring tools for the real time control of milk powder manufacture.

Work on protein quality has the potential to change the current standard international methodology for measuring protein quality to a new method that provides a significant advantage to dairy protein when compared with substitutes. Publicity relating to the new Digestible Indispensable Amino Acid Score (DIAAS) has been phenomenal. Press releases by International Dairy Federation (IDF) and Global Dairy Platform (GDP) have generated hundreds of articles worldwide. Validation work is continuing.

Papers recently been accepted or submitted for publication

- *A Tightened Single Sampling Variables Plan*, submitted to the Journal of the Operational Research Society 12th January 2013
- McGregor RM, Poppitt SD. *Milk protein for improved metabolic health: a review of the evidence*. In submission Nutr & Metab. Milk Proteins: From Expression to Food, March 2013.
- McGregor RM, Poppitt SD. *Milk proteins and human health*, In Press 2013.