



## Effect of ProDairy on Milk Production

Bay of Plenty, 2011

### Introduction

Donaghys ProDairy is a scientifically formulated probiotic extract designed to enhance digestion, feed conversion and increase milksolid production. It aids the establishment and performance of healthy rumen microbes which are required for efficient digestion and overall performance of dairy cattle.

### Materials and Methods

A trial was conducted on 288 lactating dairy cows on a Bay of Plenty dairy farm for 68 days between 12 October and 19 December 2011. 288 cows were split evenly into three evenly matched groups. 96 cows were treated with a 'live' version of ProDairy containing  $10^{15}$  CFU LAB1 bacteria, 96 cows were treated with the commercialised version of ProDairy and the remainder were left as an untreated control. There were two herd tests conducted on 17 November and 19 December.

An analysis of covariance (ANCOVA) with starting weight as covariate was performed in R statistical analysis package to test for the difference in means.

### Results

Daily milk solid production of both herds is shown in Table 1. ProDairy treated cows exhibited a larger decrease in milk solid production compared to untreated controls over the course of the trial.

	<b>Change in MS Production (g MS/day)</b>	<b>Difference</b>
<b>ProDairy</b>	-502	-37
<b>Control</b>	-465	
	<b>Standard error of difference (g/day)</b>	49