

House 9 Papakowhai Renovation Project



House 9 Family Room Temperatures Winter (May – September)					
Period	Mean 24 Hr Temp (°C)	Mean Minimum Temp (°C) 24 Hr	Mean Minimum Temp (°C) Morning	Mean Minimum Temp (°C) Evening	Mean Minimum Temps (°C) Night
Pre Renovation (2006)	16.5	14.2	14.7	16.9	14.5
Post Renovation (2008)	16.9	14.2	14.5	17.4	14.8

House 9 Main Bedroom Temperatures Winter (May – September)					
Period	Mean 24 Hr Temp (°C)	Mean Minimum Temp (°C) 24 Hr	Mean Minimum Temp (°C) Morning	Mean Minimum Temp (°C) Evening	Mean Minimum Temps (°C) Night
Pre Renovation 2006)	15.1	14.2	14.6	15.0	14.4
Post Renovation (2008)	15.5	14.3	14.6	15.5	14.7

House 9 Winter (June – August) Temperature Histograms		
Period	Family Room	Main Bedroom
Pre-Retrofit (2006)	<p>P09 - Family room - Year one</p>	<p>P09 - Bedroom - Year one</p>
Post-Retrofit (2008)	<p>P09 - Family room - Year three</p>	<p>P09 - Bedroom - Year three</p>

**House 9
Papakowhai Renovation Project**



Period	House 9 Main Bedroom July Relative Humidity	
	% Time Above 70%, 24 hr	% Time Above 70%, night
Intermediate (2007)	3%	7%
Post-Retrofit (2008)	9%	16%

House 9 July Temperatures - % Time Below Healthy Temperatures				
Period	Family Room		Main Bedroom	
	% time below 18°C, 24 hr	% time below 18°C, evening	% time below 16°C, 24 hr	% time below 16°C, night
Pre-Retrofit (2006)	80%	37%	60%	81%
Post-Retrofit (2008)	71%	21%	48%	54%