



# APPENDIX G

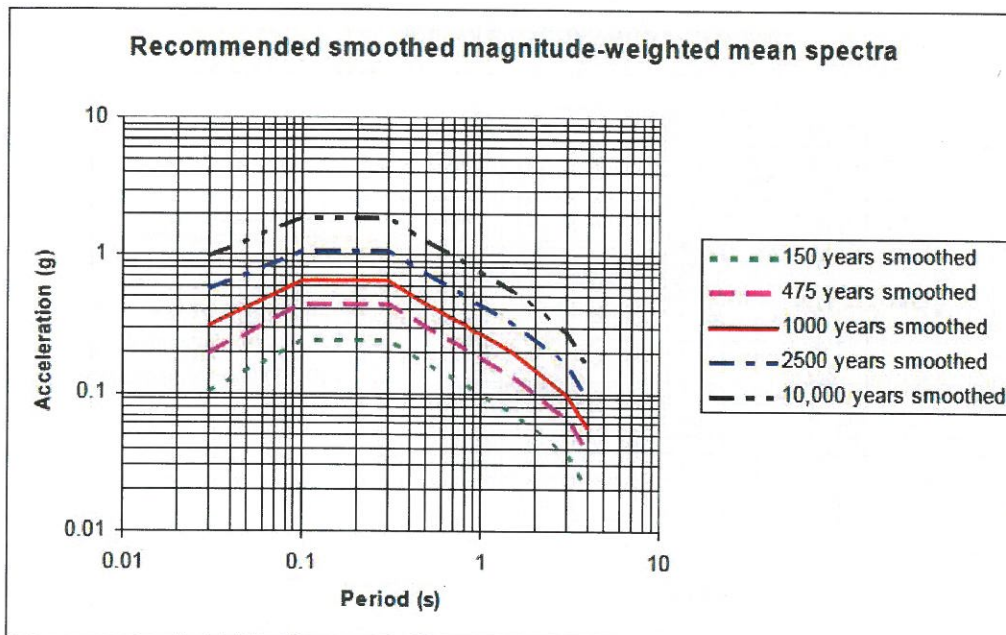
Results of GNS Seismic Hazard Study (Litchfield et al. 2005)



**APPENDIX G**  
**Results of GNS Seismic Hazard Study (Litchfield et al. 2005)**

**Table ES1** Recommended smoothed magnitude-weighted mean spectra

Period T (s)	5% damped response spectrum acceleration SA(T) (g)				
	Return Period (years)				
	150	475	1000	2500	10,000
0	0.10	0.19	0.31	0.56	0.97
0.1	0.24	0.44	0.65	1.06	1.86
0.2	0.24	0.44	0.65	1.06	1.86
0.3	0.24	0.44	0.65	1.06	1.86
0.4	0.19	0.35	0.53	0.85	1.50
0.5	0.16	0.30	0.45	0.72	1.27
0.6	0.14	0.26	0.39	0.63	1.10
0.7	0.13	0.23	0.35	0.56	0.98
0.8	0.12	0.21	0.31	0.51	0.89
0.9	0.11	0.19	0.29	0.47	0.81
1.0	0.098	0.18	0.26	0.43	0.75
1.5	0.072	0.13	0.20	0.32	0.56
2.0	0.054	0.098	0.15	0.24	0.42
2.5	0.043	0.078	0.12	0.19	0.33
3.0	0.036	0.065	0.098	0.16	0.28
3.5	0.026	0.048	0.072	0.12	0.20
4.0	0.020	0.037	0.055	0.089	0.16



**Figure ES1** Recommended smoothed magnitude-weighted mean spectra.

Data and graphs produced and supplied by Litchfield et al. 2005.



**APPENDIX G**  
Results of GNS Seismic Hazard Study (Litchfield et al. 2005)

Table ES2 Smoothed mean spectra with no magnitude-weighting.

Period T (s)	5% damped response spectrum acceleration SA(T) (g)				
	Return Period (years)				
	150	475	1000	2500	10,000
0	0.13	0.25	0.38	0.65	1.10
0.1	0.36	0.65	0.98	1.59	2.78
0.2	0.36	0.65	0.98	1.59	2.78
0.3	0.36	0.65	0.98	1.59	2.78
0.4	0.27	0.49	0.73	1.19	2.08
0.5	0.22	0.39	0.59	0.95	1.67
0.6	0.18	0.33	0.49	0.79	1.39
0.7	0.15	0.28	0.42	0.68	1.19
0.8	0.14	0.24	0.37	0.59	1.04
0.9	0.12	0.22	0.33	0.53	0.93
1.0	0.11	0.20	0.29	0.48	0.83
1.5	0.072	0.13	0.20	0.32	0.56
2.0	0.054	0.098	0.15	0.24	0.42
2.5	0.043	0.078	0.12	0.19	0.33
3.0	0.036	0.065	0.098	0.16	0.28
3.5	0.026	0.048	0.072	0.12	0.20
4.0	0.020	0.037	0.055	0.089	0.16

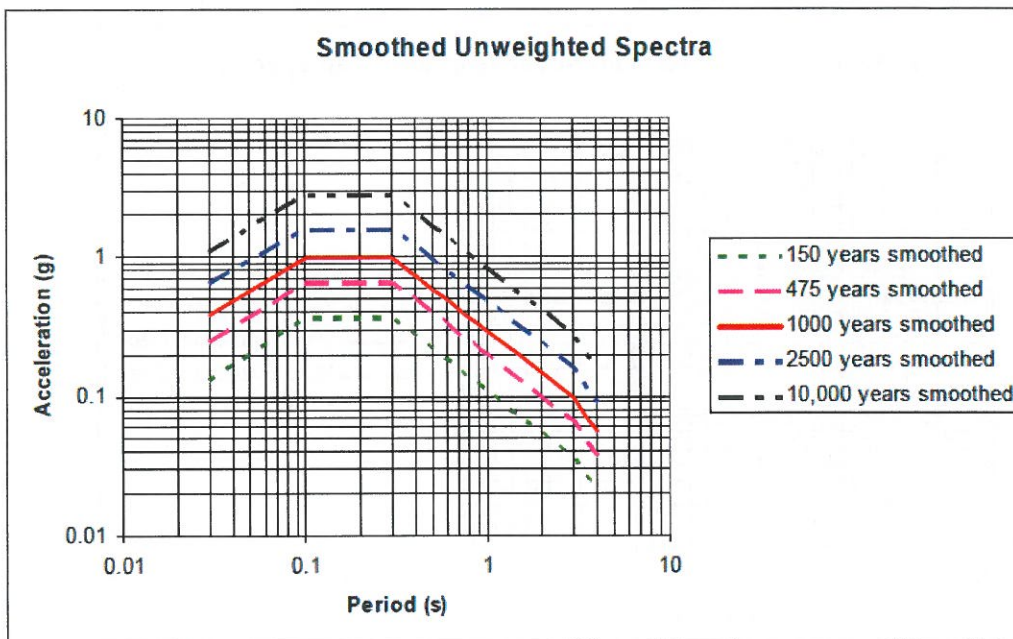


Figure ES2 Smoothed mean spectra with no magnitude-weighting.

Data and graphs produced and supplied by Litchfield et al. 2005.

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