

TABLE 3.4(g) part 1: Site demand parameters for an annual probability of exceedance of 1/2500

| | | | Site Class I | | | Site Class II | | | Site Class III | | | Site Class IV | | | Site Class V | | | Site Class VI | | |
|-----------------|-----|-----|--------------|-----------------|----------------|---------------|-----------------|----------------|----------------|-----------------|----------------|---------------|-----------------|----------------|--------------|-----------------|----------------|---------------|-----------------|----------------|
| Location | M | D | PGA | S _{as} | T _c | PGA | S _{as} | T _c | PGA | S _{as} | T _c | PGA | S _{as} | T _c | PGA | S _{as} | T _c | PGA | S _{as} | T _c |
| Kaitaia | 6.4 | >20 | 0.29 | 0.65 | 0.3 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.6 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 0.9 |
| Kerikeri | 6.4 | >20 | 0.29 | 0.65 | 0.3 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.6 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 0.9 |
| Haruru | 6.4 | >20 | 0.29 | 0.65 | 0.3 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.6 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 0.9 |
| Paihia | 6.4 | >20 | 0.29 | 0.65 | 0.3 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.6 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 0.9 |
| Opua | 6.4 | >20 | 0.29 | 0.65 | 0.3 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.6 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 0.9 |
| Kawakawa | 6.4 | >20 | 0.29 | 0.65 | 0.3 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.6 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 0.9 |
| Moerewa | 6.4 | >20 | 0.29 | 0.65 | 0.3 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.6 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 0.9 |
| Kaikohe | 6.4 | >20 | 0.29 | 0.65 | 0.3 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.6 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 0.9 |
| Hikurangi | 6.4 | >20 | 0.29 | 0.65 | 0.3 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.6 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 0.9 |
| Ngunguru | 6.4 | >20 | 0.29 | 0.65 | 0.3 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.6 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 0.9 |
| Whangarei | 6.4 | >20 | 0.29 | 0.65 | 0.3 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.6 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 0.9 |
| One Tree Point | 6.4 | >20 | 0.29 | 0.65 | 0.3 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.6 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 0.9 |
| Ruakaka | 6.4 | >20 | 0.29 | 0.65 | 0.3 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.6 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 0.9 |
| Dargaville | 6.4 | >20 | 0.29 | 0.65 | 0.3 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.6 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 0.9 |
| Waipu | 6.4 | >20 | 0.29 | 0.65 | 0.3 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.6 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 0.9 |
| Mangawhai Heads | 6.4 | >20 | 0.29 | 0.65 | 0.3 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.6 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 0.9 |
| Wellsford | 6.4 | >20 | 0.29 | 0.65 | 0.3 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.6 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 0.9 |
| Warkworth | 6.4 | >20 | 0.29 | 0.65 | 0.3 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.6 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 0.9 |
| Snells Beach | 6.4 | >20 | 0.29 | 0.65 | 0.3 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.6 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 0.9 |
| Hibiscus Coast | 6.4 | >20 | 0.29 | 0.65 | 0.3 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.6 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 0.9 |
| Parakai | 6.4 | >20 | 0.29 | 0.65 | 0.3 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.6 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 0.9 |
| Helensville | 6.4 | >20 | 0.29 | 0.65 | 0.3 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.6 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 0.9 |
| Coromandel | 6.5 | >20 | 0.29 | 0.65 | 0.3 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.6 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 0.9 |
| Riverhead | 6.4 | >20 | 0.29 | 0.65 | 0.3 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.6 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 0.9 |
| Kumeu-Huapai | 6.4 | >20 | 0.29 | 0.65 | 0.3 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.6 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 0.9 |
| Waimauku | 6.4 | >20 | 0.29 | 0.65 | 0.3 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.6 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 0.9 |
| Waiheke West | 6.4 | >20 | 0.29 | 0.65 | 0.3 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.6 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 0.9 |
| Whitianga | 6.7 | >20 | 0.29 | 0.65 | 0.3 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.6 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 0.9 |
| Muriwai | 6.4 | >20 | 0.29 | 0.65 | 0.3 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.6 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 0.9 |
| Auckland | 6.4 | >20 | 0.29 | 0.65 | 0.3 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.6 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 0.9 |

TABLE 3.4(g) part 2: Site demand parameters for an annual probability of exceedance of 1/2500

| | | | Site Class I | | | Site Class II | | | Site Class III | | | Site Class IV | | | Site Class V | | | Site Class VI | | |
|-------------------------|-----|-----|--------------|-----------------|----------------|---------------|-----------------|----------------|----------------|-----------------|----------------|---------------|-----------------|----------------|--------------|-----------------|----------------|---------------|-----------------|----------------|
| Location | M | D | PGA | S _{as} | T _c | PGA | S _{as} | T _c | PGA | S _{as} | T _c | PGA | S _{as} | T _c | PGA | S _{as} | T _c | PGA | S _{as} | T _c |
| Maraetai | 6.5 | >20 | 0.29 | 0.65 | 0.3 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.6 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 0.9 |
| Beachlands-Pine Harbour | 6.5 | >20 | 0.29 | 0.65 | 0.3 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.6 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 0.9 |
| Manukau City | 6.4 | >20 | 0.29 | 0.65 | 0.3 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.6 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 0.9 |
| Tairua | 6.9 | >20 | 0.29 | 0.65 | 0.3 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.6 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 0.9 |
| Pauanui | 6.9 | >20 | 0.29 | 0.65 | 0.3 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.6 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 0.9 |
| Clarks Beach | 6.4 | >20 | 0.29 | 0.65 | 0.3 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.6 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 0.9 |
| Thames | 6.9 | >20 | 0.29 | 0.65 | 0.3 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.6 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 0.9 |
| Patumahoe | 6.5 | >20 | 0.29 | 0.65 | 0.3 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.6 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 0.9 |
| Pukekohe | 6.6 | >20 | 0.29 | 0.65 | 0.3 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.6 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 0.9 |
| Whangamata | 7.0 | >20 | 0.29 | 0.65 | 0.4 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.7 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 0.9 |
| Pokeno | 6.7 | >20 | 0.29 | 0.65 | 0.3 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.6 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 0.9 |
| Waiuku | 6.5 | >20 | 0.29 | 0.65 | 0.3 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.6 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 0.9 |
| Tuakau | 6.6 | >20 | 0.29 | 0.65 | 0.3 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.6 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 0.9 |
| Ngatea | 6.9 | >20 | 0.29 | 0.65 | 0.4 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.7 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 1.0 |
| Paeroa | 7.0 | >20 | 0.29 | 0.65 | 0.4 | 0.34 | 0.74 | 0.5 | 0.38 | 0.82 | 0.6 | 0.39 | 0.88 | 0.7 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 1.0 |
| Waihi | 7.1 | >20 | 0.29 | 0.65 | 0.4 | 0.34 | 0.74 | 0.5 | 0.38 | 0.82 | 0.6 | 0.39 | 0.88 | 0.7 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 1.0 |
| Te Kauwhata | 6.7 | >20 | 0.29 | 0.65 | 0.3 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.6 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 0.9 |
| Waihi Beach-Bowentown | 7.2 | >20 | 0.29 | 0.65 | 0.4 | 0.34 | 0.74 | 0.5 | 0.38 | 0.82 | 0.6 | 0.39 | 0.88 | 0.7 | 0.39 | 0.92 | 0.8 | 0.39 | 1.0 | 1.0 |
| Te Aroha | 7.1 | >20 | 0.29 | 0.65 | 0.4 | 0.34 | 0.74 | 0.5 | 0.38 | 0.82 | 0.6 | 0.39 | 0.88 | 0.7 | 0.39 | 0.92 | 0.9 | 0.39 | 0.98 | 1.0 |
| Huntly | 6.7 | >20 | 0.29 | 0.65 | 0.3 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.6 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 0.9 |
| Katikati | 7.3 | >20 | 0.29 | 0.65 | 0.4 | 0.34 | 0.74 | 0.5 | 0.38 | 0.82 | 0.6 | 0.39 | 0.89 | 0.7 | 0.39 | 0.93 | 0.9 | 0.39 | 1.03 | 1.0 |
| Omokoroa | 7.3 | >20 | 0.32 | 0.69 | 0.4 | 0.36 | 0.8 | 0.5 | 0.4 | 0.89 | 0.6 | 0.42 | 0.97 | 0.7 | 0.42 | 1.01 | 0.8 | 0.42 | 1.1 | 1.0 |
| Mount Maunganui | 7.3 | >20 | 0.36 | 0.79 | 0.4 | 0.41 | 0.9 | 0.5 | 0.45 | 1.0 | 0.6 | 0.46 | 1.07 | 0.7 | 0.46 | 1.1 | 0.8 | 0.46 | 1.18 | 1.0 |
| Morrinsville | 7.1 | >20 | 0.29 | 0.65 | 0.4 | 0.34 | 0.74 | 0.5 | 0.38 | 0.82 | 0.6 | 0.39 | 0.88 | 0.7 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 1.0 |
| Ngaruawahia | 6.8 | >20 | 0.29 | 0.65 | 0.3 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.6 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 0.9 |
| Tauranga | 7.3 | >20 | 0.36 | 0.79 | 0.4 | 0.41 | 0.9 | 0.5 | 0.45 | 1.0 | 0.6 | 0.46 | 1.07 | 0.7 | 0.46 | 1.1 | 0.8 | 0.46 | 1.18 | 1.0 |
| Te Puke | 7.3 | >20 | 0.44 | 0.96 | 0.4 | 0.5 | 1.09 | 0.5 | 0.53 | 1.18 | 0.6 | 0.54 | 1.24 | 0.7 | 0.53 | 1.26 | 0.8 | 0.52 | 1.31 | 1.0 |
| Hamilton | 6.9 | >20 | 0.29 | 0.65 | 0.4 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.7 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 0.9 |
| Raglan | 6.6 | >20 | 0.29 | 0.65 | 0.3 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.6 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 0.9 |
| Matamata | 7.3 | >20 | 0.32 | 0.69 | 0.4 | 0.37 | 0.8 | 0.5 | 0.4 | 0.89 | 0.6 | 0.42 | 0.96 | 0.8 | 0.42 | 1.0 | 0.9 | 0.42 | 1.08 | 1.0 |

TABLE 3.4(g) part 3: Site demand parameters for an annual probability of exceedance of 1/2500

| | | | Site Class I | | | Site Class II | | | Site Class III | | | Site Class IV | | | Site Class V | | | Site Class VI | | |
|--------------------------------|-----|-----|--------------|-----------------|----------------|---------------|-----------------|----------------|----------------|-----------------|----------------|---------------|-----------------|----------------|--------------|-----------------|----------------|---------------|-----------------|----------------|
| Location | M | D | PGA | S _{as} | T _c | PGA | S _{as} | T _c | PGA | S _{as} | T _c | PGA | S _{as} | T _c | PGA | S _{as} | T _c | PGA | S _{as} | T _c |
| Cambridge | 7.1 | >20 | 0.29 | 0.65 | 0.4 | 0.34 | 0.74 | 0.5 | 0.38 | 0.82 | 0.6 | 0.39 | 0.88 | 0.7 | 0.39 | 0.92 | 0.8 | 0.39 | 0.97 | 1.0 |
| Ruatoria | 7.9 | >20 | 1.3 | 2.94 | 0.3 | 1.34 | 2.85 | 0.4 | 1.28 | 2.6 | 0.5 | 1.17 | 2.3 | 0.6 | 1.08 | 2.12 | 0.7 | 0.98 | 1.95 | 1.0 |
| Whakatane | 7.4 | >20 | 0.96 | 2.2 | 0.3 | 1.05 | 2.32 | 0.4 | 1.07 | 2.28 | 0.6 | 1.01 | 2.16 | 0.7 | 0.94 | 2.04 | 0.9 | 0.87 | 1.98 | 1.2 |
| Edgecumbe | 7.3 | >20 | 0.87 | 1.98 | 0.3 | 0.96 | 2.13 | 0.4 | 0.98 | 2.12 | 0.6 | 0.94 | 2.03 | 0.7 | 0.88 | 1.94 | 0.9 | 0.8 | 1.89 | 1.2 |
| Ohope | 7.5 | >20 | 0.97 | 2.23 | 0.3 | 1.06 | 2.34 | 0.4 | 1.07 | 2.28 | 0.5 | 1.01 | 2.15 | 0.7 | 0.95 | 2.03 | 0.9 | 0.87 | 1.96 | 1.2 |
| Pirongia | 7.0 | >20 | 0.29 | 0.65 | 0.4 | 0.34 | 0.74 | 0.4 | 0.38 | 0.82 | 0.5 | 0.39 | 0.88 | 0.7 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 0.9 |
| Te Awamutu | 7.1 | >20 | 0.29 | 0.65 | 0.4 | 0.34 | 0.74 | 0.5 | 0.38 | 0.82 | 0.6 | 0.39 | 0.88 | 0.7 | 0.39 | 0.92 | 0.8 | 0.39 | 0.96 | 1.0 |
| Opotiki | 7.5 | >20 | 0.97 | 2.23 | 0.3 | 1.05 | 2.31 | 0.4 | 1.06 | 2.24 | 0.5 | 1.0 | 2.11 | 0.7 | 0.94 | 2.0 | 0.8 | 0.87 | 1.91 | 1.1 |
| Kihikihi | 7.1 | >20 | 0.29 | 0.65 | 0.4 | 0.34 | 0.74 | 0.5 | 0.38 | 0.82 | 0.6 | 0.39 | 0.88 | 0.7 | 0.39 | 0.92 | 0.8 | 0.39 | 0.97 | 1.0 |
| Putaruru | 7.4 | >20 | 0.34 | 0.74 | 0.4 | 0.39 | 0.85 | 0.5 | 0.42 | 0.94 | 0.6 | 0.44 | 1.01 | 0.7 | 0.44 | 1.05 | 0.8 | 0.44 | 1.13 | 1.0 |
| Ngongotaha | 7.4 | >20 | 0.49 | 1.09 | 0.4 | 0.55 | 1.22 | 0.5 | 0.59 | 1.3 | 0.6 | 0.59 | 1.34 | 0.7 | 0.58 | 1.34 | 0.8 | 0.56 | 1.39 | 1.0 |
| Kawerau | 7.4 | >20 | 0.85 | 1.94 | 0.3 | 0.94 | 2.07 | 0.4 | 0.96 | 2.06 | 0.6 | 0.91 | 1.97 | 0.8 | 0.85 | 1.88 | 1.0 | 0.78 | 1.83 | 1.2 |
| Rotorua | 7.4 | >20 | 0.55 | 1.23 | 0.4 | 0.62 | 1.36 | 0.5 | 0.65 | 1.43 | 0.6 | 0.65 | 1.45 | 0.7 | 0.63 | 1.43 | 0.9 | 0.6 | 1.47 | 1.1 |
| Otorohanga | 7.1 | >20 | 0.29 | 0.65 | 0.4 | 0.34 | 0.74 | 0.5 | 0.38 | 0.82 | 0.6 | 0.39 | 0.88 | 0.7 | 0.39 | 0.92 | 0.8 | 0.39 | 0.97 | 1.0 |
| Tokoroa | 7.4 | >20 | 0.39 | 0.87 | 0.4 | 0.45 | 0.98 | 0.5 | 0.48 | 1.07 | 0.6 | 0.5 | 1.13 | 0.7 | 0.49 | 1.16 | 0.8 | 0.49 | 1.23 | 1.0 |
| Te Kuiti | 7.2 | >20 | 0.29 | 0.65 | 0.4 | 0.34 | 0.74 | 0.5 | 0.38 | 0.82 | 0.6 | 0.39 | 0.88 | 0.7 | 0.39 | 0.92 | 0.8 | 0.39 | 1.0 | 1.0 |
| Mangakino | 7.4 | >20 | 0.41 | 0.9 | 0.4 | 0.46 | 1.01 | 0.5 | 0.5 | 1.1 | 0.6 | 0.51 | 1.16 | 0.7 | 0.51 | 1.18 | 0.8 | 0.5 | 1.25 | 1.0 |
| Murupara | 7.6 | >20 | 0.84 | 1.93 | 0.3 | 0.92 | 2.01 | 0.4 | 0.93 | 1.97 | 0.5 | 0.89 | 1.89 | 0.6 | 0.85 | 1.82 | 0.8 | 0.79 | 1.75 | 1.0 |
| Gisborne | 7.9 | >20 | 1.46 | 3.3 | 0.3 | 1.49 | 3.17 | 0.4 | 1.41 | 2.83 | 0.5 | 1.27 | 2.47 | 0.6 | 1.17 | 2.26 | 0.8 | 1.04 | 2.05 | 1.1 |
| Taupo | 7.4 | >20 | 0.67 | 1.54 | 0.3 | 0.75 | 1.65 | 0.4 | 0.77 | 1.67 | 0.5 | 0.75 | 1.64 | 0.7 | 0.72 | 1.6 | 0.8 | 0.68 | 1.6 | 1.1 |
| Taumarunui | 7.5 | >20 | 0.42 | 0.94 | 0.4 | 0.48 | 1.04 | 0.5 | 0.51 | 1.12 | 0.6 | 0.52 | 1.16 | 0.7 | 0.52 | 1.19 | 0.8 | 0.51 | 1.24 | 1.0 |
| Turangi | 7.4 | >20 | 0.79 | 1.82 | 0.3 | 0.87 | 1.92 | 0.4 | 0.88 | 1.9 | 0.5 | 0.85 | 1.83 | 0.6 | 0.82 | 1.78 | 0.8 | 0.77 | 1.72 | 1.0 |
| Waitara | 7.0 | >20 | 0.29 | 0.65 | 0.4 | 0.34 | 0.74 | 0.5 | 0.38 | 0.83 | 0.6 | 0.39 | 0.91 | 0.7 | 0.39 | 0.94 | 0.8 | 0.4 | 1.02 | 1.0 |
| Wairoa | 7.8 | >20 | 1.25 | 2.83 | 0.3 | 1.29 | 2.77 | 0.4 | 1.25 | 2.54 | 0.5 | 1.14 | 2.27 | 0.6 | 1.06 | 2.11 | 0.8 | 0.96 | 1.95 | 1.0 |
| New Plymouth | 7.0 | >20 | 0.31 | 0.67 | 0.4 | 0.35 | 0.77 | 0.5 | 0.38 | 0.86 | 0.6 | 0.4 | 0.93 | 0.7 | 0.4 | 0.96 | 0.8 | 0.4 | 1.03 | 1.0 |
| Oakura (New Plymouth District) | 7.0 | >20 | 0.32 | 0.69 | 0.4 | 0.36 | 0.81 | 0.5 | 0.4 | 0.89 | 0.6 | 0.41 | 0.96 | 0.7 | 0.41 | 0.99 | 0.8 | 0.41 | 1.06 | 1.0 |
| Inglewood | 7.1 | >20 | 0.37 | 0.81 | 0.4 | 0.42 | 0.93 | 0.5 | 0.46 | 1.01 | 0.6 | 0.47 | 1.07 | 0.7 | 0.46 | 1.08 | 0.9 | 0.46 | 1.15 | 1.0 |
| Stratford | 7.3 | >20 | 0.36 | 0.79 | 0.4 | 0.41 | 0.9 | 0.5 | 0.44 | 0.98 | 0.6 | 0.46 | 1.05 | 0.7 | 0.46 | 1.08 | 0.8 | 0.46 | 1.14 | 1.0 |
| Ohakune | 7.5 | >20 | 0.75 | 1.73 | 0.3 | 0.82 | 1.8 | 0.4 | 0.83 | 1.79 | 0.5 | 0.81 | 1.74 | 0.6 | 0.79 | 1.7 | 0.7 | 0.75 | 1.66 | 0.9 |
| Raetihi | 7.5 | >20 | 0.73 | 1.68 | 0.3 | 0.79 | 1.75 | 0.4 | 0.81 | 1.74 | 0.5 | 0.8 | 1.7 | 0.6 | 0.77 | 1.66 | 0.7 | 0.73 | 1.63 | 0.9 |

TABLE 3.4(g) part 4: Site demand parameters for an annual probability of exceedance of 1/2500

| | | | Site Class I | | | Site Class II | | | Site Class III | | | Site Class IV | | | Site Class V | | | Site Class VI | | |
|------------------|-----|-----|--------------|-----------------|----------------|---------------|-----------------|----------------|----------------|-----------------|----------------|---------------|-----------------|----------------|--------------|-----------------|----------------|---------------|-----------------|----------------|
| Location | M | D | PGA | S _{as} | T _c | PGA | S _{as} | T _c | PGA | S _{as} | T _c | PGA | S _{as} | T _c | PGA | S _{as} | T _c | PGA | S _{as} | T _c |
| Eltham | 7.4 | >20 | 0.37 | 0.81 | 0.4 | 0.42 | 0.92 | 0.5 | 0.45 | 1.0 | 0.6 | 0.47 | 1.06 | 0.7 | 0.47 | 1.1 | 0.8 | 0.47 | 1.16 | 1.0 |
| Opunake | 7.1 | >20 | 0.44 | 0.96 | 0.4 | 0.5 | 1.09 | 0.5 | 0.53 | 1.16 | 0.6 | 0.53 | 1.19 | 0.7 | 0.52 | 1.19 | 0.9 | 0.5 | 1.23 | 1.1 |
| Waiouru | 7.6 | >20 | 0.85 | 1.95 | 0.3 | 0.91 | 2.0 | 0.4 | 0.92 | 1.97 | 0.5 | 0.89 | 1.88 | 0.6 | 0.85 | 1.82 | 0.7 | 0.8 | 1.75 | 1.0 |
| Napier | 7.9 | >20 | 1.41 | 3.2 | 0.3 | 1.44 | 3.07 | 0.4 | 1.37 | 2.76 | 0.5 | 1.24 | 2.42 | 0.7 | 1.14 | 2.22 | 0.8 | 1.02 | 2.03 | 1.1 |
| Clive | 7.9 | >20 | 1.46 | 3.33 | 0.3 | 1.5 | 3.2 | 0.4 | 1.42 | 2.86 | 0.5 | 1.28 | 2.49 | 0.7 | 1.17 | 2.28 | 0.9 | 1.04 | 2.08 | 1.2 |
| Hawera | 7.4 | >20 | 0.4 | 0.89 | 0.4 | 0.45 | 0.99 | 0.5 | 0.49 | 1.07 | 0.6 | 0.5 | 1.12 | 0.7 | 0.5 | 1.15 | 0.8 | 0.49 | 1.2 | 1.0 |
| Hastings | 7.9 | >20 | 1.49 | 3.39 | 0.3 | 1.52 | 3.25 | 0.4 | 1.44 | 2.9 | 0.5 | 1.3 | 2.52 | 0.7 | 1.19 | 2.31 | 0.9 | 1.06 | 2.11 | 1.2 |
| Taihape | 7.7 | >20 | 1.01 | 2.31 | 0.3 | 1.07 | 2.32 | 0.4 | 1.06 | 2.23 | 0.5 | 1.01 | 2.07 | 0.6 | 0.95 | 1.97 | 0.8 | 0.88 | 1.87 | 1.0 |
| Havelock North | 7.9 | >20 | 1.51 | 3.43 | 0.3 | 1.53 | 3.28 | 0.4 | 1.45 | 2.92 | 0.5 | 1.31 | 2.54 | 0.7 | 1.2 | 2.32 | 0.9 | 1.06 | 2.12 | 1.2 |
| Patea | 7.4 | >20 | 0.53 | 1.2 | 0.3 | 0.59 | 1.28 | 0.4 | 0.62 | 1.33 | 0.5 | 0.62 | 1.34 | 0.7 | 0.61 | 1.34 | 0.8 | 0.59 | 1.36 | 1.0 |
| Whanganui | 7.5 | >20 | 0.86 | 1.98 | 0.3 | 0.92 | 2.02 | 0.4 | 0.93 | 1.98 | 0.5 | 0.9 | 1.89 | 0.6 | 0.86 | 1.82 | 0.7 | 0.81 | 1.75 | 0.9 |
| Waipawa | 7.9 | >20 | 1.65 | 3.76 | 0.3 | 1.67 | 3.57 | 0.4 | 1.57 | 3.14 | 0.5 | 1.4 | 2.69 | 0.7 | 1.28 | 2.44 | 0.9 | 1.12 | 2.23 | 1.3 |
| Waipukurau | 7.9 | >20 | 1.7 | 3.87 | 0.3 | 1.72 | 3.66 | 0.4 | 1.61 | 3.21 | 0.5 | 1.43 | 2.74 | 0.7 | 1.3 | 2.47 | 0.9 | 1.14 | 2.26 | 1.3 |
| Marton | 7.6 | >20 | 1.07 | 2.47 | 0.3 | 1.13 | 2.47 | 0.4 | 1.12 | 2.34 | 0.5 | 1.05 | 2.16 | 0.6 | 0.99 | 2.04 | 0.8 | 0.91 | 1.92 | 1.0 |
| Bulls | 7.7 | >20 | 1.15 | 2.66 | 0.3 | 1.21 | 2.64 | 0.4 | 1.19 | 2.48 | 0.5 | 1.11 | 2.25 | 0.6 | 1.04 | 2.12 | 0.8 | 0.95 | 1.98 | 1.1 |
| Dannevirke | 7.9 | >20 | 1.67 | 3.85 | 0.3 | 1.69 | 3.65 | 0.4 | 1.6 | 3.21 | 0.5 | 1.43 | 2.76 | 0.7 | 1.3 | 2.49 | 1.0 | 1.15 | 2.29 | 1.3 |
| Feilding | 7.8 | >20 | 1.29 | 2.98 | 0.3 | 1.34 | 2.91 | 0.4 | 1.3 | 2.68 | 0.5 | 1.2 | 2.39 | 0.7 | 1.11 | 2.22 | 0.9 | 1.01 | 2.06 | 1.2 |
| Ashhurst | 7.9 | 7 | 1.52 | 3.52 | 0.3 | 1.57 | 3.4 | 0.4 | 1.5 | 3.04 | 0.5 | 1.35 | 2.65 | 0.7 | 1.24 | 2.42 | 1.0 | 1.1 | 2.24 | 1.3 |
| Woodville | 7.9 | 6 | 1.67 | 3.85 | 0.3 | 1.71 | 3.69 | 0.4 | 1.62 | 3.26 | 0.5 | 1.45 | 2.81 | 0.8 | 1.32 | 2.53 | 1.0 | 1.16 | 2.34 | 1.4 |
| Palmerston North | 7.8 | 6 | 1.46 | 3.38 | 0.3 | 1.5 | 3.27 | 0.4 | 1.44 | 2.94 | 0.5 | 1.31 | 2.59 | 0.7 | 1.21 | 2.37 | 0.9 | 1.08 | 2.2 | 1.3 |
| Pahiatua | 7.9 | 7 | 1.73 | 3.98 | 0.3 | 1.74 | 3.76 | 0.4 | 1.64 | 3.3 | 0.5 | 1.47 | 2.82 | 0.8 | 1.33 | 2.55 | 1.0 | 1.17 | 2.34 | 1.4 |
| Foxton Beach | 7.8 | >20 | 1.31 | 3.02 | 0.3 | 1.36 | 2.95 | 0.4 | 1.32 | 2.71 | 0.5 | 1.21 | 2.42 | 0.7 | 1.13 | 2.25 | 0.9 | 1.02 | 2.1 | 1.2 |
| Foxton | 7.8 | >20 | 1.36 | 3.14 | 0.3 | 1.41 | 3.05 | 0.4 | 1.36 | 2.79 | 0.5 | 1.25 | 2.47 | 0.7 | 1.15 | 2.29 | 0.9 | 1.04 | 2.13 | 1.2 |
| Shannon | 7.9 | 15 | 1.53 | 3.54 | 0.3 | 1.57 | 3.4 | 0.4 | 1.5 | 3.05 | 0.5 | 1.36 | 2.66 | 0.7 | 1.25 | 2.43 | 1.0 | 1.1 | 2.25 | 1.3 |
| Levin | 7.9 | 18 | 1.53 | 3.52 | 0.3 | 1.56 | 3.39 | 0.4 | 1.49 | 3.04 | 0.5 | 1.35 | 2.65 | 0.7 | 1.24 | 2.42 | 1.0 | 1.1 | 2.25 | 1.3 |
| Otaki Beach | 7.9 | >20 | 1.54 | 3.56 | 0.3 | 1.58 | 3.42 | 0.4 | 1.51 | 3.06 | 0.5 | 1.36 | 2.67 | 0.7 | 1.25 | 2.43 | 1.0 | 1.11 | 2.26 | 1.3 |
| Otaki | 7.9 | >20 | 1.56 | 3.6 | 0.3 | 1.6 | 3.45 | 0.4 | 1.52 | 3.08 | 0.5 | 1.38 | 2.69 | 0.7 | 1.26 | 2.45 | 1.0 | 1.12 | 2.27 | 1.3 |
| Waikanae | 7.9 | >20 | 1.62 | 3.72 | 0.3 | 1.65 | 3.57 | 0.4 | 1.57 | 3.18 | 0.5 | 1.42 | 2.76 | 0.8 | 1.29 | 2.5 | 1.0 | 1.14 | 2.32 | 1.3 |
| Takaka | 7.5 | >20 | 0.56 | 1.26 | 0.3 | 0.62 | 1.36 | 0.4 | 0.65 | 1.4 | 0.5 | 0.65 | 1.42 | 0.6 | 0.64 | 1.43 | 0.8 | 0.62 | 1.43 | 1.0 |
| Paraparaumu | 7.9 | 18 | 1.62 | 3.74 | 0.3 | 1.66 | 3.58 | 0.4 | 1.57 | 3.18 | 0.5 | 1.42 | 2.76 | 0.8 | 1.29 | 2.5 | 1.0 | 1.14 | 2.32 | 1.3 |

TABLE 3.4(g) part 5: Site demand parameters for an annual probability of exceedance of 1/2500

| | | | Site Class I | | | Site Class II | | | Site Class III | | | Site Class IV | | | Site Class V | | | Site Class VI | | |
|------------------|-----|-----|--------------|-----------------|----------------|---------------|-----------------|----------------|----------------|-----------------|----------------|---------------|-----------------|----------------|--------------|-----------------|----------------|---------------|-----------------|----------------|
| Location | M | D | PGA | S _{as} | T _c | PGA | S _{as} | T _c | PGA | S _{as} | T _c | PGA | S _{as} | T _c | PGA | S _{as} | T _c | PGA | S _{as} | T _c |
| Masterton | 8.0 | 6 | 2.12 | 4.88 | 0.3 | 2.09 | 4.46 | 0.4 | 1.92 | 3.78 | 0.5 | 1.67 | 3.14 | 0.8 | 1.5 | 2.76 | 1.1 | 1.29 | 2.52 | 1.5 |
| Paekakariki | 7.9 | 16 | 1.67 | 3.85 | 0.3 | 1.71 | 3.68 | 0.4 | 1.62 | 3.26 | 0.5 | 1.45 | 2.82 | 0.8 | 1.32 | 2.55 | 1.0 | 1.16 | 2.36 | 1.4 |
| Carterton | 8.0 | 4 | 2.1 | 4.82 | 0.3 | 2.07 | 4.44 | 0.4 | 1.91 | 3.77 | 0.6 | 1.67 | 3.14 | 0.8 | 1.49 | 2.77 | 1.1 | 1.29 | 2.54 | 1.5 |
| Greytown | 8.0 | 4 | 2.01 | 4.61 | 0.3 | 2.0 | 4.27 | 0.4 | 1.85 | 3.66 | 0.6 | 1.62 | 3.07 | 0.8 | 1.46 | 2.73 | 1.1 | 1.26 | 2.5 | 1.5 |
| Porirua | 7.9 | 6 | 1.7 | 3.91 | 0.3 | 1.74 | 3.75 | 0.4 | 1.65 | 3.33 | 0.6 | 1.47 | 2.88 | 0.8 | 1.34 | 2.59 | 1.1 | 1.17 | 2.41 | 1.4 |
| Featherston | 8.0 | 0 | 2.02 | 4.63 | 0.3 | 2.02 | 4.33 | 0.4 | 1.88 | 3.73 | 0.6 | 1.65 | 3.14 | 0.8 | 1.48 | 2.79 | 1.1 | 1.28 | 2.56 | 1.5 |
| Motueka | 7.6 | >20 | 0.68 | 1.55 | 0.3 | 0.75 | 1.64 | 0.4 | 0.77 | 1.66 | 0.5 | 0.76 | 1.64 | 0.7 | 0.74 | 1.62 | 0.8 | 0.7 | 1.6 | 1.0 |
| Upper Hutt | 7.9 | 0 | 1.85 | 4.25 | 0.3 | 1.87 | 4.04 | 0.4 | 1.76 | 3.54 | 0.6 | 1.56 | 3.02 | 0.8 | 1.41 | 2.71 | 1.1 | 1.23 | 2.5 | 1.5 |
| Lower Hutt | 7.9 | 0 | 1.77 | 4.06 | 0.3 | 1.8 | 3.88 | 0.4 | 1.7 | 3.42 | 0.6 | 1.51 | 2.95 | 0.8 | 1.37 | 2.65 | 1.1 | 1.2 | 2.46 | 1.5 |
| Martinborough | 8.1 | 16 | 2.01 | 4.58 | 0.3 | 1.98 | 4.21 | 0.4 | 1.83 | 3.6 | 0.5 | 1.61 | 3.01 | 0.8 | 1.45 | 2.68 | 1.0 | 1.26 | 2.44 | 1.4 |
| Mapua | 7.6 | >20 | 0.78 | 1.76 | 0.3 | 0.85 | 1.85 | 0.4 | 0.87 | 1.84 | 0.5 | 0.84 | 1.79 | 0.7 | 0.81 | 1.74 | 0.9 | 0.76 | 1.71 | 1.1 |
| Wainuiomata | 7.9 | 0 | 1.77 | 4.06 | 0.3 | 1.8 | 3.88 | 0.4 | 1.7 | 3.42 | 0.6 | 1.51 | 2.95 | 0.8 | 1.37 | 2.65 | 1.1 | 1.2 | 2.46 | 1.5 |
| Nelson | 7.6 | >20 | 0.83 | 1.89 | 0.3 | 0.91 | 1.98 | 0.4 | 0.92 | 1.95 | 0.5 | 0.89 | 1.88 | 0.7 | 0.85 | 1.82 | 0.9 | 0.8 | 1.78 | 1.1 |
| Picton | 7.8 | >20 | 1.17 | 2.68 | 0.3 | 1.24 | 2.69 | 0.4 | 1.22 | 2.53 | 0.5 | 1.14 | 2.33 | 0.7 | 1.06 | 2.19 | 0.9 | 0.97 | 2.08 | 1.2 |
| Wellington CBD | 7.9 | 0 | 1.75 | 4.01 | 0.3 | 1.79 | 3.85 | 0.4 | 1.69 | 3.42 | 0.6 | 1.51 | 2.96 | 0.8 | 1.37 | 2.67 | 1.1 | 1.2 | 2.48 | 1.5 |
| Wellington | 7.9 | 0 | 1.75 | 4.01 | 0.3 | 1.79 | 3.85 | 0.4 | 1.69 | 3.42 | 0.6 | 1.51 | 2.96 | 0.8 | 1.37 | 2.67 | 1.1 | 1.2 | 2.48 | 1.5 |
| Eastbourne | 7.9 | 0 | 1.77 | 4.06 | 0.3 | 1.8 | 3.88 | 0.4 | 1.7 | 3.42 | 0.6 | 1.51 | 2.95 | 0.8 | 1.37 | 2.65 | 1.1 | 1.2 | 2.46 | 1.5 |
| Richmond | 7.6 | >20 | 0.83 | 1.88 | 0.3 | 0.9 | 1.97 | 0.4 | 0.92 | 1.95 | 0.5 | 0.89 | 1.88 | 0.7 | 0.85 | 1.82 | 0.9 | 0.79 | 1.78 | 1.1 |
| Hope | 7.6 | >20 | 0.83 | 1.88 | 0.3 | 0.9 | 1.97 | 0.4 | 0.92 | 1.95 | 0.5 | 0.89 | 1.88 | 0.7 | 0.85 | 1.82 | 0.9 | 0.79 | 1.78 | 1.1 |
| Brightwater | 7.6 | >20 | 0.83 | 1.87 | 0.3 | 0.9 | 1.96 | 0.4 | 0.92 | 1.94 | 0.5 | 0.88 | 1.87 | 0.7 | 0.84 | 1.81 | 0.9 | 0.79 | 1.78 | 1.1 |
| Wakefield | 7.6 | >20 | 0.83 | 1.87 | 0.3 | 0.9 | 1.96 | 0.4 | 0.92 | 1.94 | 0.5 | 0.88 | 1.87 | 0.7 | 0.84 | 1.81 | 0.9 | 0.79 | 1.78 | 1.1 |
| Renwick | 7.8 | >20 | 1.28 | 2.9 | 0.3 | 1.35 | 2.93 | 0.4 | 1.33 | 2.75 | 0.6 | 1.22 | 2.5 | 0.8 | 1.13 | 2.31 | 1.0 | 1.01 | 2.2 | 1.4 |
| Blenheim | 7.8 | 11 | 1.32 | 3.01 | 0.3 | 1.39 | 3.01 | 0.4 | 1.36 | 2.8 | 0.6 | 1.25 | 2.54 | 0.8 | 1.15 | 2.35 | 1.0 | 1.03 | 2.23 | 1.3 |
| Seddon | 7.8 | 5 | 1.45 | 3.31 | 0.3 | 1.51 | 3.28 | 0.4 | 1.47 | 3.02 | 0.6 | 1.34 | 2.71 | 0.8 | 1.22 | 2.49 | 1.0 | 1.09 | 2.35 | 1.4 |
| Westport | 7.2 | >20 | 0.62 | 1.39 | 0.3 | 0.69 | 1.52 | 0.4 | 0.72 | 1.56 | 0.5 | 0.71 | 1.57 | 0.7 | 0.69 | 1.54 | 0.9 | 0.65 | 1.55 | 1.1 |
| St Arnaud | 7.8 | 0 | 1.01 | 2.27 | 0.3 | 1.09 | 2.38 | 0.4 | 1.1 | 2.32 | 0.6 | 1.04 | 2.19 | 0.8 | 0.97 | 2.08 | 1.0 | 0.88 | 2.02 | 1.3 |
| Murchison | 7.4 | >20 | 0.77 | 1.76 | 0.3 | 0.86 | 1.88 | 0.4 | 0.88 | 1.9 | 0.6 | 0.86 | 1.86 | 0.7 | 0.82 | 1.8 | 0.9 | 0.76 | 1.8 | 1.2 |
| Ward | 7.9 | 5 | 1.58 | 3.61 | 0.3 | 1.64 | 3.55 | 0.4 | 1.58 | 3.22 | 0.6 | 1.42 | 2.83 | 0.8 | 1.28 | 2.59 | 1.1 | 1.13 | 2.41 | 1.5 |
| Reefton | 7.4 | >20 | 0.78 | 1.75 | 0.3 | 0.87 | 1.9 | 0.5 | 0.89 | 1.92 | 0.6 | 0.86 | 1.89 | 0.8 | 0.82 | 1.83 | 1.0 | 0.76 | 1.82 | 1.3 |
| Springs Junction | 7.9 | 2 | 1.22 | 2.75 | 0.4 | 1.35 | 2.94 | 0.5 | 1.36 | 2.91 | 0.7 | 1.24 | 2.71 | 1.0 | 1.12 | 2.56 | 1.2 | 0.99 | 2.34 | 1.7 |

TABLE 3.4(g) part 6: Site demand parameters for an annual probability of exceedance of 1/2500

| <i>Location</i> | <i>M</i> | <i>D</i> | Site Class I | | | Site Class II | | | Site Class III | | | Site Class IV | | | Site Class V | | | Site Class VI | | |
|-----------------|----------|----------|--------------|-----------------------|----------------------|---------------|-----------------------|----------------------|----------------|-----------------------|----------------------|---------------|-----------------------|----------------------|--------------|-----------------------|----------------------|---------------|-----------------------|----------------------|
| | | | <i>PGA</i> | <i>S_{as}</i> | <i>T_c</i> | <i>PGA</i> | <i>S_{as}</i> | <i>T_c</i> | <i>PGA</i> | <i>S_{as}</i> | <i>T_c</i> | <i>PGA</i> | <i>S_{as}</i> | <i>T_c</i> | <i>PGA</i> | <i>S_{as}</i> | <i>T_c</i> | <i>PGA</i> | <i>S_{as}</i> | <i>T_c</i> |
| Runanga | 7.6 | >20 | 0.67 | 1.47 | 0.4 | 0.75 | 1.63 | 0.5 | 0.78 | 1.7 | 0.6 | 0.77 | 1.69 | 0.8 | 0.73 | 1.66 | 1.0 | 0.68 | 1.67 | 1.3 |
| Kaikoura | 7.9 | 6 | 1.37 | 3.09 | 0.3 | 1.44 | 3.09 | 0.4 | 1.4 | 2.86 | 0.6 | 1.27 | 2.56 | 0.8 | 1.16 | 2.37 | 1.1 | 1.02 | 2.22 | 1.5 |
| Greymouth | 7.6 | >20 | 0.68 | 1.51 | 0.4 | 0.77 | 1.67 | 0.5 | 0.81 | 1.75 | 0.6 | 0.79 | 1.74 | 0.9 | 0.74 | 1.72 | 1.0 | 0.69 | 1.71 | 1.3 |
| Hanmer Springs | 7.8 | 4 | 1.37 | 3.12 | 0.4 | 1.5 | 3.28 | 0.5 | 1.49 | 3.17 | 0.6 | 1.35 | 2.9 | 0.9 | 1.22 | 2.73 | 1.2 | 1.06 | 2.49 | 1.7 |
| Hokitika | 7.8 | >20 | 0.81 | 1.79 | 0.4 | 0.91 | 1.98 | 0.5 | 0.95 | 2.05 | 0.7 | 0.9 | 2.0 | 0.9 | 0.84 | 1.96 | 1.1 | 0.77 | 1.9 | 1.5 |
| Cheviot | 7.6 | >20 | 0.93 | 2.09 | 0.3 | 1.01 | 2.18 | 0.4 | 1.02 | 2.13 | 0.6 | 0.96 | 2.02 | 0.8 | 0.9 | 1.92 | 0.9 | 0.83 | 1.88 | 1.2 |
| Otira | 7.9 | 1 | 1.43 | 3.25 | 0.4 | 1.58 | 3.48 | 0.5 | 1.57 | 3.41 | 0.7 | 1.42 | 3.16 | 1.0 | 1.26 | 2.91 | 1.3 | 1.07 | 2.61 | 1.8 |
| Arthurs Pass | 7.6 | 13 | 0.99 | 2.24 | 0.4 | 1.11 | 2.45 | 0.5 | 1.14 | 2.48 | 0.6 | 1.07 | 2.37 | 0.9 | 0.99 | 2.28 | 1.1 | 0.89 | 2.17 | 1.5 |
| Harihari | 8.2 | 0 | 1.31 | 2.91 | 0.4 | 1.46 | 3.16 | 0.6 | 1.46 | 3.16 | 0.7 | 1.33 | 2.98 | 1.1 | 1.19 | 2.74 | 1.4 | 1.01 | 2.53 | 2.0 |
| Amberley | 7.3 | >20 | 0.62 | 1.38 | 0.4 | 0.7 | 1.52 | 0.5 | 0.73 | 1.59 | 0.6 | 0.72 | 1.6 | 0.8 | 0.69 | 1.59 | 0.9 | 0.66 | 1.62 | 1.2 |
| Oxford | 7.2 | >20 | 0.65 | 1.46 | 0.4 | 0.74 | 1.62 | 0.5 | 0.77 | 1.68 | 0.6 | 0.76 | 1.68 | 0.8 | 0.72 | 1.66 | 1.0 | 0.67 | 1.67 | 1.2 |
| Rangiora | 7.2 | >20 | 0.57 | 1.28 | 0.4 | 0.65 | 1.43 | 0.5 | 0.69 | 1.51 | 0.6 | 0.68 | 1.53 | 0.8 | 0.66 | 1.53 | 0.9 | 0.63 | 1.56 | 1.2 |
| Pegasus | 7.1 | >20 | 0.57 | 1.28 | 0.4 | 0.65 | 1.43 | 0.5 | 0.69 | 1.5 | 0.6 | 0.68 | 1.53 | 0.8 | 0.66 | 1.52 | 0.9 | 0.63 | 1.55 | 1.1 |
| Woodend | 7.1 | >20 | 0.57 | 1.29 | 0.4 | 0.65 | 1.43 | 0.5 | 0.69 | 1.5 | 0.6 | 0.68 | 1.53 | 0.7 | 0.66 | 1.52 | 0.9 | 0.63 | 1.55 | 1.1 |
| Franz Josef | 8.3 | 0 | 1.55 | 3.42 | 0.4 | 1.72 | 3.69 | 0.6 | 1.71 | 3.69 | 0.8 | 1.53 | 3.44 | 1.1 | 1.36 | 3.11 | 1.5 | 1.14 | 2.92 | 2.1 |
| Kaiapoi | 6.9 | >20 | 0.57 | 1.3 | 0.3 | 0.65 | 1.44 | 0.4 | 0.69 | 1.51 | 0.6 | 0.69 | 1.54 | 0.7 | 0.66 | 1.52 | 0.9 | 0.63 | 1.55 | 1.1 |
| Fox Glacier | 8.3 | 0 | 1.6 | 3.53 | 0.4 | 1.77 | 3.8 | 0.6 | 1.76 | 3.79 | 0.8 | 1.57 | 3.53 | 1.1 | 1.38 | 3.17 | 1.5 | 1.16 | 2.99 | 2.1 |
| Darfield | 6.8 | >20 | 0.57 | 1.29 | 0.3 | 0.65 | 1.44 | 0.4 | 0.69 | 1.51 | 0.6 | 0.69 | 1.53 | 0.7 | 0.66 | 1.52 | 0.9 | 0.63 | 1.55 | 1.1 |
| West Melton | 6.6 | >20 | 0.58 | 1.32 | 0.3 | 0.66 | 1.46 | 0.4 | 0.7 | 1.52 | 0.5 | 0.7 | 1.54 | 0.7 | 0.67 | 1.52 | 0.8 | 0.63 | 1.54 | 1.1 |
| Christchurch | 6.5 | >20 | 0.64 | 1.45 | 0.3 | 0.72 | 1.59 | 0.4 | 0.76 | 1.64 | 0.5 | 0.75 | 1.63 | 0.6 | 0.71 | 1.59 | 0.8 | 0.67 | 1.59 | 1.0 |
| Prebbleton | 6.5 | >20 | 0.59 | 1.34 | 0.3 | 0.67 | 1.48 | 0.4 | 0.71 | 1.54 | 0.5 | 0.7 | 1.55 | 0.7 | 0.67 | 1.53 | 0.8 | 0.64 | 1.54 | 1.0 |
| Lyttelton | 6.5 | >20 | 0.6 | 1.38 | 0.3 | 0.69 | 1.52 | 0.4 | 0.73 | 1.58 | 0.5 | 0.72 | 1.58 | 0.6 | 0.69 | 1.55 | 0.8 | 0.65 | 1.54 | 1.0 |
| Rolleston | 6.6 | >20 | 0.56 | 1.28 | 0.3 | 0.64 | 1.42 | 0.4 | 0.68 | 1.48 | 0.5 | 0.68 | 1.5 | 0.7 | 0.65 | 1.49 | 0.8 | 0.62 | 1.5 | 1.0 |
| Methven | 7.0 | >20 | 0.49 | 1.07 | 0.4 | 0.56 | 1.22 | 0.5 | 0.6 | 1.31 | 0.6 | 0.6 | 1.37 | 0.8 | 0.58 | 1.38 | 0.9 | 0.56 | 1.44 | 1.2 |
| Diamond Harbour | 6.4 | >20 | 0.58 | 1.33 | 0.3 | 0.66 | 1.46 | 0.4 | 0.7 | 1.52 | 0.5 | 0.7 | 1.53 | 0.6 | 0.67 | 1.5 | 0.8 | 0.63 | 1.51 | 1.0 |
| Lincoln | 6.5 | >20 | 0.56 | 1.28 | 0.3 | 0.64 | 1.42 | 0.4 | 0.68 | 1.48 | 0.5 | 0.68 | 1.5 | 0.7 | 0.65 | 1.48 | 0.8 | 0.62 | 1.49 | 1.0 |
| Mt Cook Village | 8.1 | >20 | 0.84 | 1.85 | 0.4 | 0.95 | 2.05 | 0.5 | 0.98 | 2.1 | 0.7 | 0.93 | 2.03 | 1.0 | 0.86 | 1.97 | 1.2 | 0.77 | 1.88 | 1.6 |
| Rakaia | 6.8 | >20 | 0.44 | 0.98 | 0.4 | 0.51 | 1.11 | 0.4 | 0.55 | 1.2 | 0.6 | 0.55 | 1.26 | 0.7 | 0.54 | 1.27 | 0.9 | 0.53 | 1.33 | 1.1 |
| Leeston | 6.6 | >20 | 0.45 | 1.01 | 0.3 | 0.52 | 1.14 | 0.4 | 0.56 | 1.22 | 0.5 | 0.56 | 1.28 | 0.7 | 0.55 | 1.29 | 0.8 | 0.54 | 1.33 | 1.0 |
| Akaroa | 6.6 | >20 | 0.41 | 0.91 | 0.3 | 0.47 | 1.03 | 0.4 | 0.51 | 1.11 | 0.5 | 0.52 | 1.17 | 0.7 | 0.51 | 1.19 | 0.8 | 0.5 | 1.24 | 1.0 |

TABLE 3.4(g) part 7: Site demand parameters for an annual probability of exceedance of 1/2500

| | | | Site Class I | | | Site Class II | | | Site Class III | | | Site Class IV | | | Site Class V | | | Site Class VI | | |
|----------------|-----|-----|--------------|-----------------|----------------|---------------|-----------------|----------------|----------------|-----------------|----------------|---------------|-----------------|----------------|--------------|-----------------|----------------|---------------|-----------------|----------------|
| Location | M | D | PGA | S _{as} | T _c | PGA | S _{as} | T _c | PGA | S _{as} | T _c | PGA | S _{as} | T _c | PGA | S _{as} | T _c | PGA | S _{as} | T _c |
| Ashburton | 6.7 | >20 | 0.4 | 0.89 | 0.4 | 0.46 | 1.02 | 0.5 | 0.5 | 1.11 | 0.6 | 0.51 | 1.17 | 0.7 | 0.51 | 1.19 | 0.9 | 0.5 | 1.26 | 1.1 |
| Geraldine | 6.8 | >20 | 0.41 | 0.91 | 0.4 | 0.48 | 1.04 | 0.5 | 0.52 | 1.13 | 0.6 | 0.52 | 1.19 | 0.8 | 0.51 | 1.21 | 0.9 | 0.5 | 1.27 | 1.1 |
| Fairlie | 7.0 | >20 | 0.46 | 1.0 | 0.4 | 0.52 | 1.14 | 0.5 | 0.56 | 1.23 | 0.6 | 0.57 | 1.29 | 0.8 | 0.55 | 1.3 | 1.0 | 0.54 | 1.36 | 1.2 |
| Temuka | 6.6 | >20 | 0.4 | 0.89 | 0.3 | 0.46 | 1.01 | 0.4 | 0.5 | 1.09 | 0.6 | 0.51 | 1.15 | 0.7 | 0.5 | 1.17 | 0.9 | 0.49 | 1.22 | 1.1 |
| Pleasant Point | 6.7 | >20 | 0.41 | 0.91 | 0.4 | 0.47 | 1.03 | 0.4 | 0.51 | 1.12 | 0.6 | 0.52 | 1.18 | 0.7 | 0.51 | 1.19 | 0.9 | 0.5 | 1.25 | 1.1 |
| Twizel | 7.4 | >20 | 0.51 | 1.11 | 0.4 | 0.58 | 1.26 | 0.5 | 0.62 | 1.35 | 0.7 | 0.62 | 1.4 | 0.8 | 0.61 | 1.41 | 1.0 | 0.58 | 1.46 | 1.3 |
| Timaru | 6.6 | >20 | 0.4 | 0.88 | 0.3 | 0.45 | 0.99 | 0.4 | 0.49 | 1.08 | 0.6 | 0.5 | 1.13 | 0.7 | 0.49 | 1.15 | 0.9 | 0.48 | 1.2 | 1.1 |
| Lake Hawea | 7.6 | >20 | 0.62 | 1.37 | 0.4 | 0.7 | 1.52 | 0.5 | 0.74 | 1.58 | 0.6 | 0.74 | 1.61 | 0.8 | 0.71 | 1.59 | 1.0 | 0.68 | 1.62 | 1.3 |
| Milford Sound | 7.9 | 16 | 1.67 | 3.91 | 0.3 | 1.72 | 3.76 | 0.4 | 1.65 | 3.33 | 0.6 | 1.49 | 2.89 | 0.9 | 1.35 | 2.61 | 1.1 | 1.19 | 2.43 | 1.5 |
| Wanaka | 7.6 | >20 | 0.64 | 1.43 | 0.4 | 0.72 | 1.57 | 0.5 | 0.76 | 1.62 | 0.6 | 0.75 | 1.63 | 0.8 | 0.73 | 1.61 | 1.0 | 0.69 | 1.64 | 1.2 |
| Waimate | 6.6 | >20 | 0.4 | 0.9 | 0.3 | 0.46 | 1.01 | 0.4 | 0.5 | 1.09 | 0.5 | 0.51 | 1.13 | 0.7 | 0.5 | 1.15 | 0.9 | 0.49 | 1.19 | 1.1 |
| Arrowtown | 7.6 | >20 | 0.65 | 1.45 | 0.3 | 0.72 | 1.57 | 0.4 | 0.76 | 1.61 | 0.6 | 0.76 | 1.62 | 0.8 | 0.73 | 1.59 | 0.9 | 0.7 | 1.61 | 1.2 |
| Arthurs Point | 7.7 | >20 | 0.68 | 1.52 | 0.3 | 0.75 | 1.63 | 0.4 | 0.79 | 1.67 | 0.6 | 0.78 | 1.66 | 0.8 | 0.76 | 1.63 | 0.9 | 0.72 | 1.64 | 1.2 |
| Lake Hayes | 7.6 | >20 | 0.64 | 1.42 | 0.4 | 0.71 | 1.54 | 0.4 | 0.75 | 1.59 | 0.6 | 0.75 | 1.6 | 0.8 | 0.72 | 1.58 | 0.9 | 0.69 | 1.6 | 1.2 |
| Queenstown | 7.6 | >20 | 0.65 | 1.45 | 0.3 | 0.72 | 1.57 | 0.4 | 0.76 | 1.61 | 0.6 | 0.76 | 1.61 | 0.8 | 0.74 | 1.59 | 0.9 | 0.7 | 1.61 | 1.2 |
| Cromwell | 7.4 | >20 | 0.55 | 1.22 | 0.4 | 0.62 | 1.35 | 0.5 | 0.66 | 1.41 | 0.6 | 0.66 | 1.45 | 0.8 | 0.64 | 1.44 | 0.9 | 0.62 | 1.49 | 1.2 |
| Oamaru | 6.6 | >20 | 0.4 | 0.89 | 0.3 | 0.46 | 1.0 | 0.4 | 0.5 | 1.08 | 0.5 | 0.51 | 1.12 | 0.7 | 0.49 | 1.13 | 0.8 | 0.48 | 1.17 | 1.0 |
| Clyde | 7.2 | >20 | 0.51 | 1.12 | 0.4 | 0.58 | 1.26 | 0.5 | 0.62 | 1.33 | 0.6 | 0.62 | 1.37 | 0.8 | 0.6 | 1.37 | 0.9 | 0.58 | 1.42 | 1.2 |
| Alexandra | 7.2 | >20 | 0.49 | 1.09 | 0.4 | 0.56 | 1.23 | 0.5 | 0.6 | 1.3 | 0.6 | 0.61 | 1.34 | 0.8 | 0.59 | 1.34 | 0.9 | 0.57 | 1.39 | 1.1 |
| Te Anau | 7.8 | >20 | 0.91 | 2.07 | 0.3 | 0.98 | 2.14 | 0.4 | 1.0 | 2.1 | 0.5 | 0.97 | 1.98 | 0.8 | 0.93 | 1.91 | 0.9 | 0.87 | 1.86 | 1.2 |
| Palmerston | 6.7 | >20 | 0.41 | 0.92 | 0.3 | 0.47 | 1.03 | 0.4 | 0.51 | 1.1 | 0.5 | 0.51 | 1.14 | 0.7 | 0.5 | 1.15 | 0.8 | 0.49 | 1.17 | 1.0 |
| Waikouaiti | 6.6 | >20 | 0.4 | 0.88 | 0.3 | 0.46 | 1.0 | 0.4 | 0.49 | 1.07 | 0.5 | 0.5 | 1.12 | 0.7 | 0.49 | 1.13 | 0.8 | 0.48 | 1.16 | 1.0 |
| Mosgiel | 6.7 | >20 | 0.42 | 0.94 | 0.3 | 0.48 | 1.05 | 0.4 | 0.52 | 1.13 | 0.5 | 0.52 | 1.16 | 0.7 | 0.51 | 1.16 | 0.8 | 0.49 | 1.19 | 1.0 |
| Dunedin | 6.6 | >20 | 0.41 | 0.91 | 0.3 | 0.47 | 1.03 | 0.4 | 0.51 | 1.1 | 0.5 | 0.51 | 1.14 | 0.6 | 0.5 | 1.15 | 0.8 | 0.48 | 1.17 | 1.0 |
| Brighton | 6.7 | >20 | 0.43 | 0.95 | 0.3 | 0.49 | 1.07 | 0.4 | 0.53 | 1.14 | 0.5 | 0.53 | 1.17 | 0.7 | 0.51 | 1.17 | 0.8 | 0.5 | 1.19 | 1.0 |
| Gore | 6.9 | >20 | 0.44 | 0.97 | 0.4 | 0.5 | 1.09 | 0.4 | 0.54 | 1.17 | 0.6 | 0.55 | 1.21 | 0.7 | 0.54 | 1.23 | 0.9 | 0.53 | 1.27 | 1.1 |
| Milton | 6.8 | >20 | 0.45 | 0.99 | 0.3 | 0.51 | 1.11 | 0.4 | 0.55 | 1.18 | 0.5 | 0.55 | 1.21 | 0.7 | 0.53 | 1.2 | 0.8 | 0.51 | 1.22 | 1.0 |
| Winton | 7.2 | >20 | 0.47 | 1.06 | 0.4 | 0.54 | 1.18 | 0.5 | 0.58 | 1.26 | 0.6 | 0.6 | 1.3 | 0.7 | 0.59 | 1.32 | 0.9 | 0.58 | 1.37 | 1.1 |
| Mataura | 6.9 | >20 | 0.42 | 0.94 | 0.4 | 0.48 | 1.06 | 0.4 | 0.52 | 1.13 | 0.6 | 0.53 | 1.18 | 0.7 | 0.53 | 1.21 | 0.9 | 0.52 | 1.25 | 1.1 |
| Balclutha | 6.7 | >20 | 0.42 | 0.93 | 0.3 | 0.48 | 1.05 | 0.4 | 0.52 | 1.12 | 0.5 | 0.52 | 1.16 | 0.7 | 0.51 | 1.16 | 0.8 | 0.5 | 1.19 | 1.0 |

TABLE 3.4(g) part 8: Site demand parameters for an annual probability of exceedance of 1/2500

| | | | Site Class I | | | Site Class II | | | Site Class III | | | Site Class IV | | | Site Class V | | | Site Class VI | | |
|-----------------|----------|----------|--------------|-----------------------|----------------------|---------------|-----------------------|----------------------|----------------|-----------------------|----------------------|---------------|-----------------------|----------------------|--------------|-----------------------|----------------------|---------------|-----------------------|----------------------|
| <i>Location</i> | <i>M</i> | <i>D</i> | <i>PGA</i> | <i>S_{as}</i> | <i>T_c</i> | <i>PGA</i> | <i>S_{as}</i> | <i>T_c</i> | <i>PGA</i> | <i>S_{as}</i> | <i>T_c</i> | <i>PGA</i> | <i>S_{as}</i> | <i>T_c</i> | <i>PGA</i> | <i>S_{as}</i> | <i>T_c</i> | <i>PGA</i> | <i>S_{as}</i> | <i>T_c</i> |
| Riverton | 7.4 | >20 | 0.52 | 1.18 | 0.4 | 0.59 | 1.29 | 0.4 | 0.63 | 1.36 | 0.6 | 0.65 | 1.39 | 0.7 | 0.64 | 1.4 | 0.9 | 0.62 | 1.44 | 1.1 |
| Invercargill | 7.1 | >20 | 0.45 | 1.02 | 0.4 | 0.52 | 1.13 | 0.4 | 0.56 | 1.21 | 0.6 | 0.57 | 1.26 | 0.7 | 0.57 | 1.28 | 0.9 | 0.56 | 1.33 | 1.1 |
| Bluff | 7.1 | >20 | 0.45 | 1.01 | 0.4 | 0.51 | 1.13 | 0.4 | 0.56 | 1.2 | 0.6 | 0.57 | 1.25 | 0.7 | 0.57 | 1.27 | 0.9 | 0.56 | 1.32 | 1.1 |
| Oban | 7.3 | >20 | 0.48 | 1.08 | 0.3 | 0.55 | 1.2 | 0.4 | 0.59 | 1.27 | 0.6 | 0.6 | 1.3 | 0.7 | 0.6 | 1.32 | 0.9 | 0.58 | 1.35 | 1.1 |