Table 1 Site, soil and climate characteristics

|  |  |
| --- | --- |
|  | Canterbury |
| Location | AgResearch Research Farm, Boundary Road, Lincoln, Canterbury |
| Latitude, longitude | 43.62 °S, 172.47 °E |
| Soil Type | Eyre silt loam soil |
| New Zealand Soil classification ([Hewitt 2010](#_ENREF_5)) | Weathered Orthic Recent |
| USDA soil classification | Typic Dystrusteps |
| Site topography | Flat |
| Drainage | Freely draining |
| Annual rainfall |  |
| Mean annual Temp | °C |
| Previous land use | Irrigated sheep grazed ryegrass/white clover sward |

Table 2 Mean bulk density, total porosity, macroporosity and field capacity measurements from experimental sites in a) Canterbury (6 cores per depth). Measurements were made from 100 mm diameter intact cores.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Depth (cm) | Bulk Density  g cm-3 | Total porosity  cm3 cm-3 | Macroporosity†  cm3 cm-3 | Field capacity‡  cm3 cm-3 |
| 1. Canterbury |  |  |  |  |
| 0-7.5 | 1.08 | 0.58 | 0.17 | 0.38 |
| 7.5-15 | 1.33 | 0.49 | 0.13 | 0.34 |
| 15-30 | 1.36 | 0.48 | 0.15 | 0.31 |
| 30-40 | 1.47 | 0.44 | 0.13 | 0.29 |
|  |  |  |  |  |

†Pores > 30m

‡Drained to a tension of -10kPa.