

Table 1. Correlation of soil groups with the Genetic New Zealand Soil Classification (Taylor and Pohlen 1962) and the US Soil Taxonomy (Soil Survey Staff 1999). The correlations with Soil Taxonomy provide only the nearest equivalents, as criteria differ between the two systems. The lowest category of Soil Taxonomy is given (order, suborder or great group) that can be best related to soil groups of the NZ Soil Classification.

| NZ Soil Classification (version 3) | NZ Genetic Soil Classification | Soil Taxonomy |
|---------------------------------------|-----------------------------------|------------------------|
| ALLOPHANIC SOILS | | |
| Perch-gley Allophanic Soils | gley soils | Aquands |
| Gley Allophanic Soils | gley soils | Aquands |
| Impeded Allophanic Soils | YB*loams | Cryands and Udands |
| Orthic Allophanic Soils | YB loams | Cryands and Udands |
| ANTHROPIC SOILS | | |
| Truncated Anthropic Soils | anthropic soils | Arents |
| Refuse Anthropic Soils | anthropic soils | Arents or unclassified |
| Mixed Anthropic Soils | anthropic soils | Arents |
| Fill Anthropic Soils | anthropic soils | Arents |

* YB = yellow-brown

Table 1. *(continued)*

| NZ Soil Classification (version 3) | NZ Genetic Soil Classification | Soil Taxonomy |
|---------------------------------------|---------------------------------------|---|
| BROWN SOILS | | |
| Allophanic Brown Soils | YB earths (upland & high country) | Dystrudepts |
| Sandy Brown Soils | YB sands | Dystrustepts, Dystrudepts and Psamments |
| Oxidic Brown Soils | YB earths (northern) | Dystrudepts |
| Mafic Brown Soils | BG* loams and clays | Dystrudepts |
| Acid Brown Soils | podzolised YB earths or YB earths | Dystrudepts |
| Firm Brown Soils | YB earths, YB shallow and stony soils | Dystrudepts and Dystrustepts |
| Orthic Brown Soils | YB earths, YB shallow and stony soils | Dystrudepts and Dystrustepts |
| GLEYSOILS | | |
| Sulphuric Gley Soils | gley soils | Sulphaquepts |
| Sandy Gley Soils | gley soils | Aquepts or Aquepts |
| Acid Gley Soils | gley soils | Aquepts |
| Oxidic Gley Soils | gley soils | Aquox |
| Recent Gley Soils | gleyed recent soils | Aquepts |
| Orthic Gley Soils | gleyed recent soils | Aquepts or Aquepts |

* BG = brown granular

Table 1. (continued)

| NZ Soil Classification (version 3) | NZ Genetic Soil Classification | Soil Taxonomy |
|---------------------------------------|-----------------------------------|---|
| GRANULAR SOILS | | |
| Perch-gley Granular Soils | BG loams or BG clays | Aquults |
| Melanic Granular Soils | BG loams or BG clays | Humults and Udalfs |
| Oxidic Granular Soils | BG loams or BG clays | Humults |
| Orthic Granular Soils | BG loams or BG clays | Humults |
| MELANIC SOILS | | |
| Vertic Melanic Soils | BG loams and clays | Ustolls or Vertisols |
| Perch-gley Melanic Soils | gley soils | Aquolls |
| Rendzic Melanic Soils | rendzinas | Rendolls |
| Mafic Melanic Soils | BG loams and clays | Haplustepts, Ustolls or Udolls |
| Orthic Melanic Soils | rendzinas and rendzic intergrades | Ustolls, Udolls, Haplustepts or Calcustepts |
| ORGANIC SOILS | | |
| Litter Organic Soils | unclassified | Folists or unrecognised |
| Fibric Organic Soils | organic soils | Fibrists |
| Mesic Organic Soils | organic soils | Hemists |
| Humic Organic Soils | organic soils | Saprists |

Table 1. (continued)

| NZ Soil Classification (version 3) | NZ Genetic Soil Classification | Soil Taxonomy |
|---------------------------------------|--|---------------------------|
| OXIDIC SOILS | | |
| Perch-gley Oxidic Soils | gley soils | Aquox |
| Nodular Oxidic Soils | } strongly weathered red loams, | Udox |
| Orthic Oxidic Soils | } brown loams, or BG loams or BG clays | Udox |
| PALLIC SOILS | | |
| Perch-gley Pallic Soils | yellow-grey earths | Aquepts, Aqualfs |
| Duric Pallic Soils | yellow-grey earths | Duraqualfs |
| Fragic Pallic Soils | yellow-grey earths | Fragiudalfs, Fragiocrepts |
| Laminar Pallic Soils | yellow-grey earths | Haplustalfs, Hapludalfs |
| Argillic Pallic Soils | yellow-grey earths | Haplustalfs, Hapludalfs |
| Immature Pallic Soils | yellow-grey earths or recent soils | Haplustepts |
| PODZOLS | | |
| Densipan Podzols | podzols | Aquods, Orthods |
| Perch-gley Podzols | gley podzols | Aquods |
| Groundwater-gley Podzols | gley podzols | Aquods |
| Pan Podzols | podzols | Orthods |
| Orthic Podzols | podzols | Orthods |

Table 1. (continued)

| NZ Soil Classification (version 3) | NZ Genetic Soil Classification | Soil Taxonomy |
|---------------------------------------|-----------------------------------|---------------------------|
| PUMICE SOILS | | |
| Perch-gley Pumice Soils | gley soils | Vitraquands |
| Impeded Pumice Soils | YB pumice soils | Vitrandes, Vitricryands |
| Orthic Pumice Soils | YB pumice soils | Vitrandes, Vitricryands |
| RAW SOILS | | |
| Gley Raw Soils | unclassified | Entisols or not-soil |
| Hydrothermal Raw Soils | hydrothermal soils | Entisols or not-soil |
| Rocky Raw Soils | unclassified | Entisols or not-soil |
| Sandy Raw Soils | unclassified | Entisols or not-soil |
| Fluvial Raw Soils | unclassified | Entisols or not-soil |
| Tephric Raw Soils | unclassified | Entisols or not-soil |
| Orthic Raw Soils | unclassified | Entisols or not-soil |
| RECENT SOILS | | |
| Hydrothermal Recent Soils | recent soils | Aquents, Orthents |
| Rocky Recent Soils | lithosols | Orthents |
| Sandy Recent Soils | recent soils | Psamments |
| Fluvial Recent Soils | recent soils | Fluents, Udepts, Ustepts |
| Tephric Recent Soils | recent soils | Orthents, Cryands, Udands |
| Orthic Recent Soils | recent soils | Orthents, Udepts, Ustepts |

Table 1. *(continued)*

| NZ Soil Classification (version 3) | NZ Genetic Soil Classification | Soil Taxonomy |
|---|---|----------------------------|
| SEMIARID SOILS | | |
| Aged-argillic Semiarid Soils | brown-grey earths | Haplargids |
| Solonetzic Semiarid Soils | solonetz | Natragids |
| Argillic Semiarid Soils | brown-grey earths | Haplargids |
| Immature Semiarid Soils | brown-grey earths | Haplocambids, Aquicambids |
| ULTIC SOILS | | |
| Densipan Ultic Soils | YB earths or podzols | Aquults |
| Albic Ultic Soils | YB earths | Aquults, Humults or Udults |
| Perch-gley Ultic Soils | YB earths | Aquults |
| Sandy Ultic Soils | YB earths or YB sands | Hapludults |
| Yellow Ultic Soils | YB earths | Hapludults |