

SOIL CLASSIFICATION:

TABLE: CORRELATION BETWEEN NZ AND USDA CLASSIFICATIONS

Correlation of soil groups with the Genetic New Zealand Soil Classification (Taylor and Pohlen 1962) and the US Soil Taxonomy (Soil Survey Staff 1990).

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	U.S. Soil Taxonomy
<p><u>ALLOPHANIC SOILS</u></p> <p>Perch-gley Allophanic Soils Gley Allophanic Soils Impeded Allophanic Soils Orthic Allophanic Soils</p>	<p>gley soils gley soils yellow brown loams yellow brown loams</p>	<p>Aquands Aquands Cryands and Udands Cryands and Udands</p>
<p><u>ANTHROPIC SOILS</u></p> <p>Truncated Anthropic Soils Refuse Anthropic Soils Mixed Anthropic Soils Fill Anthropic Soils</p>	<p>anthropic soils anthropic soils anthropic soils anthropic soils</p>	<p>Arents Arents or unclassified Arents Arents</p>
<p><u>BROWN SOILS</u></p> <p>Allophanic Brown Soils Sandy Brown Soils Oxidic Brown Soils Mafic Brown Soils Acid Brown Soils Firm Brown Soils Orthic Brown Soils</p>	<p>yellow brown earths (upland & high country) yellow brown sands yellow brown earths (northern) brown granular loams and clays podzolised yellow brown earths or yellow brown earths yellow brown earths, yellow brown shallow and stony soils yellow brown earths, yellow brown shallow and stony soils</p>	<p>Dystrochrepts Ustochrepts, Dystrochrepts and Psamments Dystrochrepts Dystrochrepts Dystrochrepts Dystrochrepts and Ustochrepts Dystrochrepts</p>

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<p><u>GLEYSOILS</u></p> <p>Sulphuric Gley Soils Sandy Gley Soils Acid Gley Soils Oxidic Gley Soils Recent Gley Soils Orthic Gley Soils</p>	<p>gley soils gley soils gley soils gley soils gleyed recent soils gleyed recent soils</p>	<p>Sulphaquepts Aquepts or Aquepts Aquepts Aquox Aquepts Aquepts or Aquepts</p>
<p><u>GRANULAR SOILS</u></p> <p>Perch-gley Granular Soils Melanic Granular Soils Oxidic Granular Soils Orthic Granular Soils</p>	<p>brown granular loams or brown granular clays brown granular loams or brown granular clays brown granular loams or brown granular clays brown granular loams or brown granular clays</p>	<p>Aquults Humults and Udalfs Humults Humults</p>
<p><u>MELANIC SOILS</u></p> <p>Vertic Melanic Soils Perch-gley Melanic Soils Rendzic Melanic Soils Mafic Melanic Soils Orthic Melanic Soils</p>	<p>brown granular loams and clays gley soils rendzinas brown granular loams and clays rendzinas and rendzic intergrades</p>	<p>Ustolls or Vertisols Aquolls Rendolls Ustochrepts, Eutrochrepts, Ustolls or Udolls Ustolls, Udolls or Eutrochrepts</p>
<p><u>ORGANIC SOILS</u></p> <p>Litter Organic Soils Fibric Organic Soils Mesic Organic Soils Humic Organic Soils</p>	<p>unclassified organic soils organic soils organic soils</p>	<p>Folists or unrecognised Fibrists Hemists Saprists</p>
<p><u>OXIDIC SOILS</u></p> <p>Perch-gley Oxidic Soils Nodular Oxidic Soils Orthic Oxidic Soils</p>	<p>gley soils strongly weathered red loams brown loams or brown granular loams or brown granular clays</p>	<p>Aquox Udox Udox</p>

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<p><u>PALLIC SOILS</u></p> <p>Perch-gley Pallic Soils Duric Pallic Soils Fragic Pallic Soils Laminar Pallic Soils Argillic Pallic Soils Immature Pallic Soils</p>	<p>yellow-grey earths yellow-grey earths yellow-grey earths yellow-grey earths yellow-grey earths yellow-grey earths or recent soils</p>	<p>Aquepts, Aqualfs Duraqualfs Fragiudalfs, Fragiochrepts Haplustalfs, Hapludalfs Haplustalfs, Hapludalfs Eutrochrepts, Ustochrepts</p>
<p><u>PODZOLS</u></p> <p>Densipan Podzols Perch-gley Podzols Ground-water-gley Podzols Pan Podzols Orthic Podzols</p>	<p>podzols gley podzols gley podzols podzols podzols</p>	<p>Aquods, Orthods Aquods Aquods Orthods Orthods</p>
<p><u>PUMICE SOILS</u></p> <p>Perch-gley Pumice Soils Impeded Pumic Soils Orthic Pumice Soils</p>	<p>gley soils yellow brown pumice soils yellow brown pumice soils</p>	<p>Vitraquands Vitrandis, Vitricryands Vitrandis, Vitricryands</p>
<p><u>RAW SOILS</u></p> <p>Gley Raw Soils Hydrothermal Raw Soils Rocky Raw Soils Sandy Raw Soils Fluvial Raw Soils Tephric Raw Soils Orthic Raw Soils</p>	<p>unclassified hydrothermal soils unclassified unclassified unclassified unclassified unclassified</p>	<p>Entisols or not-soil Entisols or not-soil Entisols or not-soil Entisols or not-soil Entisols or not-soil Entisols or not-soil Entisols or not-soil</p>
<p><u>RECENT SOILS</u></p> <p>Hydrothermal Recent Soils Rocky Recent Soils Sandy Recent Soils Fluvial Recent Soils Tephric Recent Soils Orthic Recent Soils</p>	<p>recent soils lithosols recent soils recent soils recent soils recent soils</p>	<p>Aquepts, Orthents Orthents Psammentis Fluvents, Ochrepts Orthents, Cryands, Udands Orthents, Ochrepts</p>
<p><u>SEMIARID SOILS</u></p> <p>Aged-argillic Semiarid Soils Solonetzic Semiarid Soils Argillic Semiarid Soils Immature Semiarid Soils</p>	<p>brown-grey earths solonetz brown-grey earths brown-grey earth</p>	<p>Haplargids Natragids Haplargids Camborthids</p>

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<p><u>ULTIC SOILS</u></p> <p>Densipan Ultic Soils</p> <p>Albic Ultic Soils</p> <p>Perch-gley Soils</p> <p>Sandy Ultic Soils</p> <p>Yellow Ultic Soils</p>	<p>yellow brown earths or podzols</p> <p>yellow brown earths</p> <p>yellow brown earths</p> <p>yellow brown earths or yellow brown sands</p> <p>yellow brown earths</p>	<p>Aquults</p> <p>Aquults, Humults or Uduults</p> <p>Aquults</p> <p>Hapludults</p> <p>Hapludults</p>