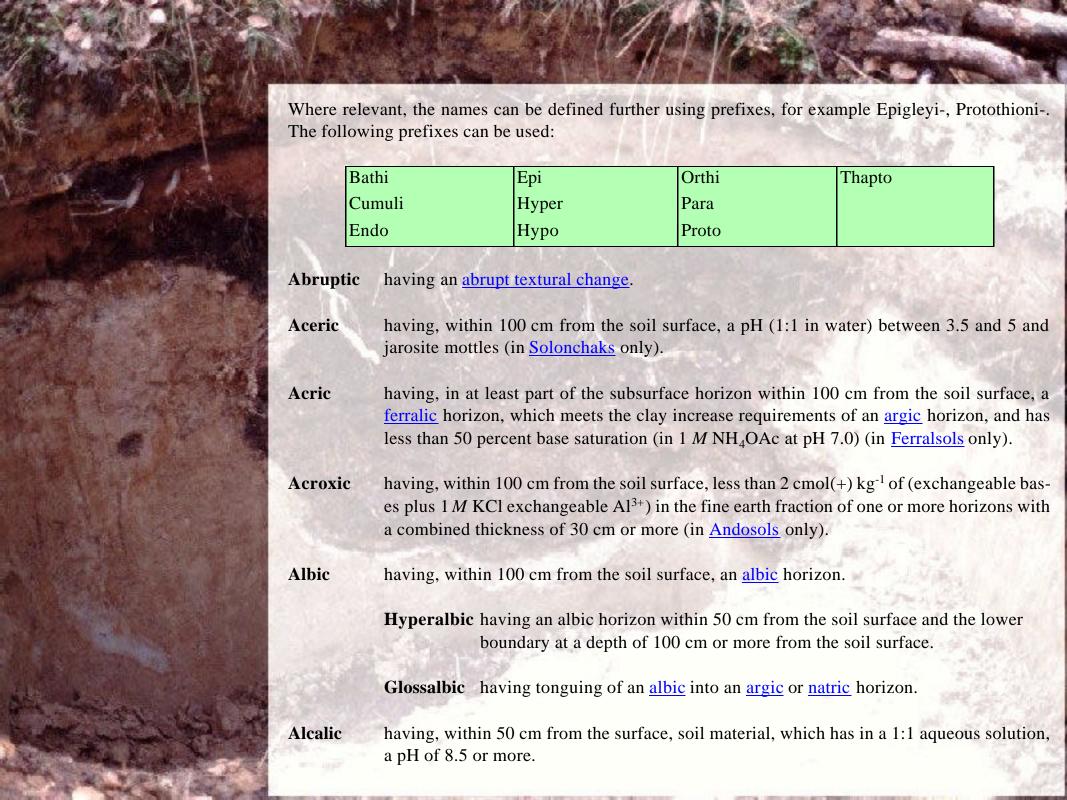


## **Definitions of qualifiers** Table 1. Alphabetical list of qualifiers Abruptic Chernic Plaggic Geric Lixic Spolic Aceric Chloridic Gibbsic Luvic Planic Stagnic Acric Chromic Glacic Plinthic Sulphatic Magnesic Mazic Posic Acroxic Cryic Gleyic Takyric Albic Cutanic Glossic Melanic Profondic Tephric Terric Alcalic Densic Grevic Mesotrophic Protic Alic Duric Grumic Mollic Reductic Thionic Aluandic **Dystric Gypsic** Natric Regic Toxic Alumic Nitic Rendzic Turbic Entic **Gypsiric** Andic Eutric Haplic Ochric Rheic Umbric Anthraquic Eutrisilic Histic Ombric Rhodic Urbic Anthric Ferralic Hortic Oxyaquic Rubic Vetic Anthropic Pachic Ferric Humic Ruptic Vermic Arenic Rustic Fibric Hydragric Pellic Vertic Aric Hydric Salic Folic Petric Vitric Aridic Fluvic Hyperochric Petrocalcic Sapric Xanthic Arzic Petroduric Silandic Yermic Fragic Hyperskeletic Fulvic Siltic Calcaric Irragric Petrogypsic Calcic Garbic Lamellic Skeletic Petroplinthic Carbic Gelic Petrosalic Sodic Leptic Carbonatic Gelistagnic Lithic Placic Spodic



Alic	having an <u>argic</u> horizon, which has a cation exchange capacity (in 1 $M$ NH <sub>4</sub> OAc at pH 7.0) equal to or greater than 24 cmol(+) kg <sup>-1</sup> clay throughout, a silt/clay ratio of less than 0.6, and 50 percent or more Al-saturation.
Aluandic	having an <u>andic</u> horizon with less than 0.6 percent acid oxalate (pH 3) extractable silica, or an $Al_{py}^{-1}/Al_{ox}^{-2}$ ratio of 0.5 or greater.
Alumic	having, in at least some part of the subsurface horizon between 50 and 100 cm from the soil surface, 50 percent or more Al-saturation.
Andic	having, within 100 cm from the soil surface, an andic horizon.
Anthraquio	c having an <u>anthraquic</u> horizon.
Anthric	having evidence of alteration by cultivation practices.
Anthropic	having evidence of profound modification of the soil by human activity other than cultivation (in <u>Regosols</u> only).
Aric	having remnants of diagnostic horizons disturbed by repeated deep ploughing.
Arenic	having, throughout the upper 50 cm soil layer, a texture of loamy fine sand or coarser.
Aridic	having <u>aridic</u> properties and <b>not</b> having a <u>takyric</u> or <u>yermic</u> horizon.
Arzic	having, within 50 cm from the soil surface, sulphate-rich groundwater at some period in most years <b>and</b> having, averaged over a depth of 100cm, 15 percent or more gypsum (in <a href="Gypsisols">Gypsisols</a> only).
	$l_{py}$ : pyrophosphate extractable aluminium. $l_{ox}$ : acid oxalate (pH 3) extractable aluminium (method of Blakemore <i>et al</i> , 1987).

