

## Taxonomic Classification of Soils Derived From loesses in Hilly Region of Western Sichuan

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**Abstract:** Such types of loesses as aeolian Chengdu Clay, sedimentary Guanghan Clay, and alluvial Ya'an Clay with a horizon of gravels, distributed in hilly region of western Sichuan Basin. The properties and classification of soils developed from loesses depends deeply on the features of those loesses. The results showed that soils derived from different types of loesses varied apparently in mechanic composition, pH, content of CaCO<sub>3</sub>, CEC, etc. By analyzing representative soil profiles, the diagnostic horizons and diagnostic characteristics to classify those soils had been established based on principles and methods of soil taxonomic classification, and in particular Truncated property was suggested at first time, which hadn't been quantified yet. The taxonomic classification of soils developed from loesses had been proposed also, and refereed with genetic classification.

**Key words:** Loesses; soil taxonomic classification; reference; hilly region of Western Sichuan

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