Soil Profile (Soil Horizon)

A soil profile refers to the vertical section of soil exposed by digging a pit or making a cut into A soil profile refers to the vertical section of soil, each with distinct characteristics in the ground. It reveals the various layers or horizons of soil, each with distinct characteristics in the ground. It reveals the various layers of florizont terms of colour, texture, structure, composition, and other properties. These layers, known as terms of colour, texture, structure, composition, and sold sold horizons, form due to the interaction of different processes over time, such as weathering, soil horizons, form due to the interaction of different processes over time, such as weathering, soil horizons, form due to the interaction of different processes over time, such as weathering, soil horizons, form due to the interaction of different processes over time, such as weathering, soil horizons, form due to the interaction of different processes over time, such as weathering, soil horizons, form due to the interaction of different processes over time, such as weathering, soil horizons, form due to the interaction of different processes over time, such as weathering, soil horizons, form due to the interaction of different processes over time, soil horizons, form due to the interaction of different processes over time, soil horizons, form due to the interaction of diameters and nutrients. Soil horizons are organic matter accumulation, and the movement of minerals and nutrients. Soil horizons are typically designated by letters (O, A, B, C, etc.) to denote their position within the soil profile and their specific properties. Each horizon represents a different stage or zone within the soil. ranging from the surface layer to deeper layers near the bedrock. Over time, the processes localised in the regolith — the layer of loose, solid material above the bedrock — gradually give rise to distinct layers within the soil, known as horizons. These horizons exhibit variations in their physical, chemical, and biological attributes, collectively defining a soil's unique profile, visible when the soil is vertically cut. Although the boundaries between these horizons are often indistinct, they form a continuous sequence within the soil profile. Let us now discuss various horizons of the soil in detail.

O horizon, characterised by significant amounts of organic matter in various stages of decomposition, marks the soil surface.

A horizon, referred to as the topsoil, constitutes the uppermost mineral layers, rich in humus and displaying a dark hue.

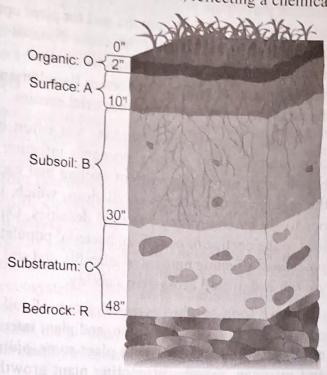
E horizon, situated between the A and B horizons, signifies a layer significantly depleted of horizons, signifies a layer significantly depleted of als and/or organic content, resulting in a pale layer primarily composed of silicates of extensive mineral leaching or eluviation). are known as the subsoil

gherizen, known as the subsoil, contains minimal organic material, reflecting a chemical

prosition akin to the underlying rock. letion zone, as it tends to a from above. The B. L. are categorised into B1. Do e further categorised into B1, B2, and B3

pas Chorizon, recognised as the parent ock. consists of weakly weathered parent material resting on unaltered bedrock (R).

The soil profile and the relative thickness of the horizons are generally characteristic or different climate, the type of vegetative over and different topographical situations. for example, in grassland soil humification is rapid, but mineralisation is slow. In forest soil litter and root decay slowly. Hence humus layer is narrow, but mineralisation is rapid so B horizon is broad.



Horizon	Horizon Description	Color	Clay Content	Structure	Organic Matter Content
0	Organic		eng ne tot er ge teather ti g 320 ve de	AND THE REST OF THE PARTY OF TH	more
A	Mineral				e de la plus de la plus
É	Mineral zone of loss		ess		
В	Zone of clay accumulation		more	200	Okasail (I)
С	Parent material			松	less
R	Bedrock		CHANA CHANA PARTA CHANA PARTA	1	Windows of the second

Soil profile and Various horizons Fig. 18.5.