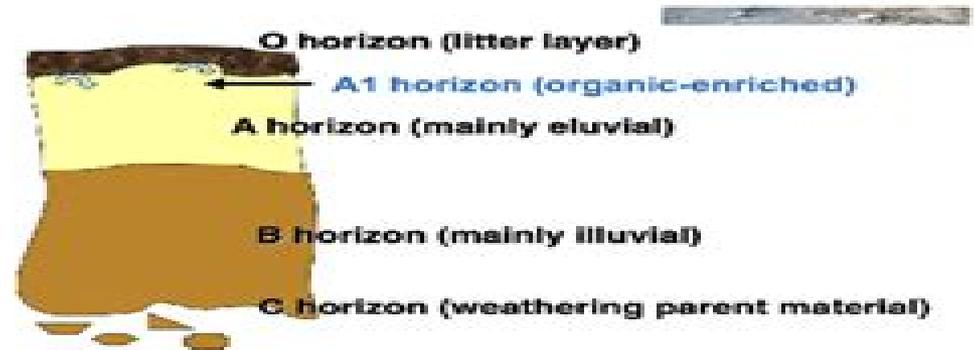


Soils

- An ecosystem: interconnected community of living and dead organisms, chemical and physical factors and processes
- **Healthy soil (health):** continued capacity of soil to function as a vital living ecosystem that sustains plants, animals and humans

Profile

- A vertical section of soil from the surface to the parent material below
- Made up of horizons
- Profile form:
 - Texture contrast: A and B texture markedly different
 - Gradational: No clear change in texture - gradual change but still have horizons (different texture on top and bottom)
 - Uniform: No change in texture with depth



Soil organic matter

- **Particulate organic matter:** recognisable cell structure
- **Humus:** amorphous organic materials - lacking clear structure or form
- **Inert:** highly carbonised, including charcoal

Textures

- **Sand:** feel and hear the grains
- **Silt:** smooth as soap, a bit like flour, a bit sticky
- **Clay:** sticky, sticks to skin and can be very hard
- **Organic matter:** spongy

Colour

Soil Colour	Soil Types and Characteristics	Typical Management Implications
Black	High organic matter (e.g. peat) Very dark (including deep red MFA sites)	Waterlogging, nit N loss problems, low pH, high denitrification Stability and tillage problems
White/Grey / Blue/Grey	Iron and manganese leached due to high water drainage	Low N nutrients (leached) Low pH in available water
Red	Good drainage (iron is oxidised)	High pH/alkaline (leach N) Low pH in available water
Yellow/ yellow brown	Former blue-grey (iron red soils, iron sulphides)	Multiple phosphorus sources, low pH in available water (sulphates)
Brown	Moderate organic matter and iron oxides	Low N, moderate phosphorus/leach N, low pH in available water
Orange/brown/ grey	Very poor drainage or water logging, iron and manganese compounds	Waterlogging, nit N loss problems, high iron reduction risk, methane emission risk

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Jianjun Gao



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