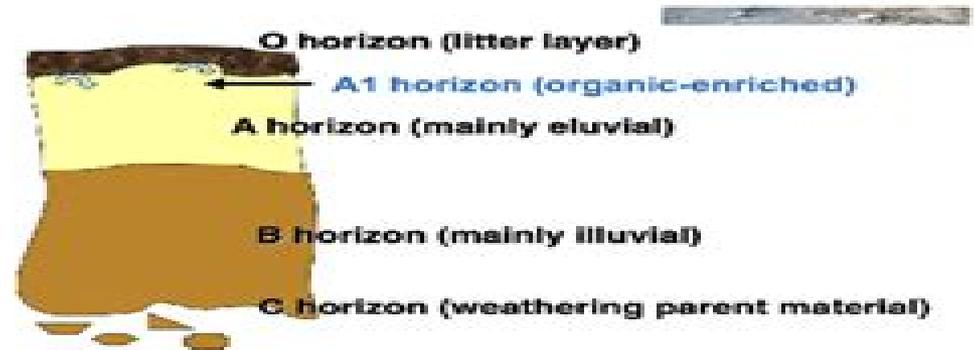


## Soils

- 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 WBS sites)	Waterlogging, pH/Alum problems, low an., 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 has leached) Red	High pH/alkaline (leach an.) Low pH in available water
Yellow/ yellow brown	Former blue-grey (but red soils, iron accumulated)	Medium pH/neutral (but low), low an., available water (compaction)
Brown	Moderate organic matter and iron oxides	Low to medium pH/acidic (leach N), low to moderate plant available water
Grey/grey/ green	Very poor drainage or water logging, iron and manganese compounds	Waterlogging, pH/Alum problems, high iron reduction risk, methane emission risk

# Soil Science Lecture Notes

**Albert Martini**



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**Fundamentals of Soil Science: Lecture Notes Oklahoma State** Abit,2019-08-08     **Soil Science [lecture Notes and Exercises]**. University of Natal (Pietermaritzburg),     Lecture Notes for Introductory Soil Science K. A. Barbarick,1993  
SSC 200 Soil Science Lecture Notes H. Joseph Kleiss,1995-08-01     The Major Soils of the World P. M. Driessen,R. Dudal,1991     **Soil Science Americana** Alfred E. Hartemink,2021-09-14 This book narrates how the study of the soil became a science and institutionalized in the USA between 1860 and 1960 The story meanders through the activities ideas publications and correspondence of people who influenced the progressions that led to the budding and early blossoming of American and international soil science Interwoven is a tale of two farm boys who grew up 900 km apart in the Midwest USA in the late 1800s and early 1900s Emil Truog and Charles Kellogg met in the late 1920s and shared a natural connection to the soil Both were practical pioneers and believed that understanding soils was crucial to helping people on the land make a better living The USA is a big country its soil science is geographically intertwined and the cradle of its history primes back to a few people Soil Science Americana is an intellectual biography not of one individual but of a new scientific field from its emergence to its complete coming of age Louise O Fresco President Wageningen University and Research In a lively personal voice Hartemink traces the roots of modern soil science in the United States creating a book that will engage both the expert and non expert in the underappreciated field of soil science Jo Handelsman Director Wisconsin Institute for Discovery The intellectual master piece is of interest to soil scientists general public and the policy makers and will remain pertinent for generations to come Rattan Lal World Food Prize Laureate 2020 The Ohio State University     The Renaissance of Science Albert Martini,2015-05-27 The Magnificent Scientists and their Fabulous Accomplishments A Fantastic Dream and Journey into the Past Present and Future In the World of Biology     Introduction to Soil Science Bernard P. K. Yerima,E. Van Ranst,2005 A basic and applied textbook ideal for students     **Encyclopedia of Soil Science** Ward Chesworth,2007-11-22 The Encyclopedia of Soil Science provides a comprehensive alphabetical treatment of basic soil science in a single volume It constitutes a wide ranging and authoritative collection of some 160 academic articles covering the salient aspects of soil physics chemistry biology fertility technology genesis morphology classification and geomorphology With increased usage of soil for world food production building materials and waste repositories demand has grown for a better global understanding of soil and its processes longer articles by leading authorities from around the world are supplemented by some 430 definitions of common terms in soil sciences     *Reader* A. Hartemink,2003     **Soils** Curtis Fletcher Marbut,1951     *Soil Science* ,1920 A monthly journal devoted to problems in soil physics soil chemistry and soil biology     **Eurasian Soil Science** ,1996     **E.W. Hilgard and the Birth of Modern Soil Science** Hans Jenny,1961     **Egyptian Journal of Soil Science** ,1990     **The Chemical News and Journal of Physical Science** ,1913     Transactions 15th World Congress of Soil Science World Congress of Soil Science,1994 Author index in v 9     **Journal of the Indian Society of Soil Science**

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