

AERATION ZONE

- **Soil Belt**

- Zone is constantly affected by evaporation and plant transpiration.

- **Intermediate Belt**

- Water that percolates downward to the water table and is held by capillarity, adsorption, chemical action, etc

- **Capillary Fringe**

- Capillarity due to a fluid property known as surface tension (Glass tubes)
- Height depends on grain diameter

$$h_c = \frac{-0.03}{0.2D_{10}(\text{mm})} = m$$

D_{10} = Grain diameter at 10% passing

$$u_c = h_c \rho_w g = h_c \gamma_w \Rightarrow \text{NEGATIVE}$$