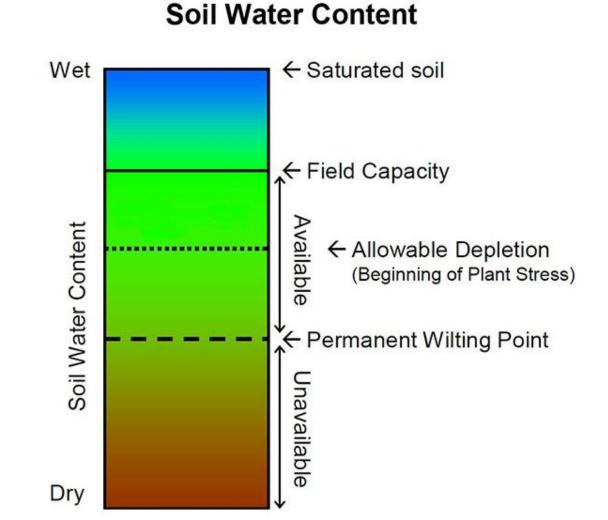
# Soil Health and Irrigation Management

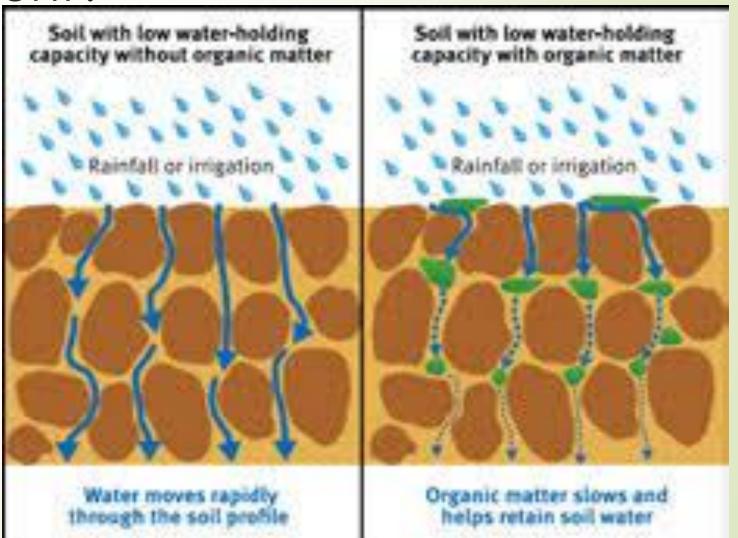
Lance Andersen / Mission Resource Conservation District

- Irrigation Water Management:
  - Putting Transpired Water Back
  - What do we need to know about our soils as we irrigate?





- Soil organic matter is key to soil's ability to hold water.
  - Typical for our region available water holding capacity (AWHC) is only 1.2" of water in the root zone.
    - Why? Low organic matter and shallow soils



What are the sun's effects on bare soil?

How does mulch change this and improve infiltration?

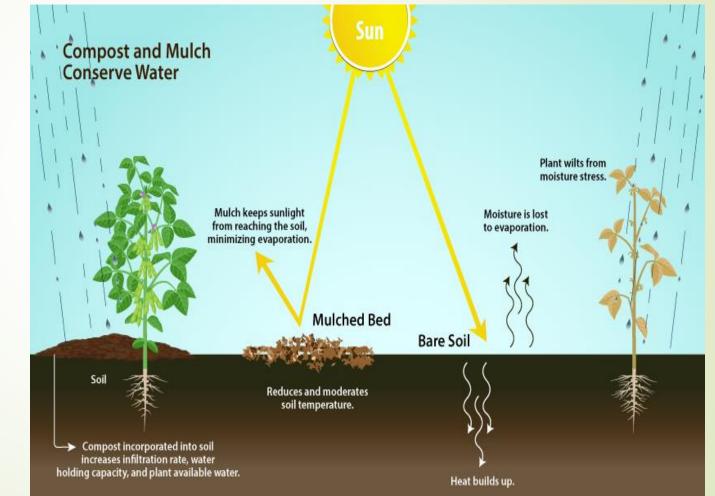
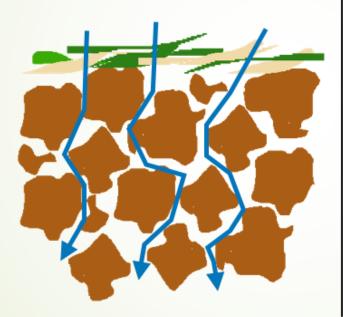
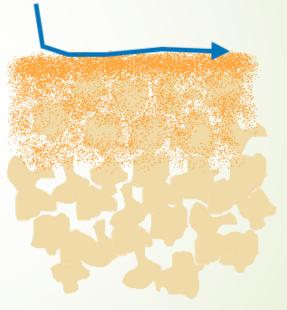


Figure 1.



#### **Healthy Soil**

- Good structure
- Water infiltration into soil pores
- Slows water velocity
- Dark color
- High organic matter
- Soil surface is covered with dead vegetation



#### **Degraded Soil**

- Weak structure
- No water infiltration soil pores clogged
- · Water runs off quickly
- Light color
- Low organic matter
- · Soil surface is covered with a soil crust

#### Questions?