

2014 Drought Conference
Watsonville, CA
(April 10, 2014)

SOIL MOISTURE MONITORING
ADVANCED

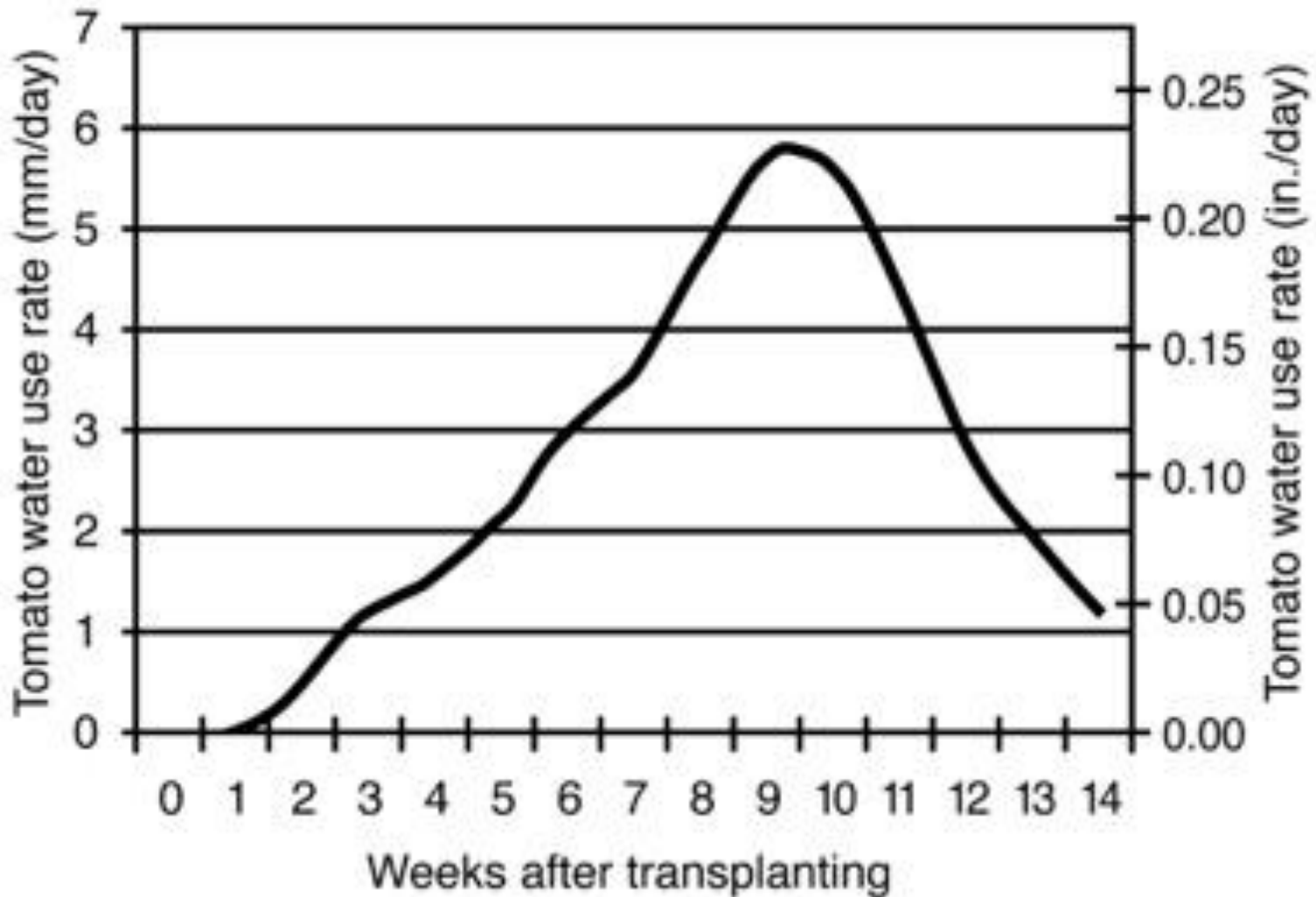
SOIL MOISTURE TENSION

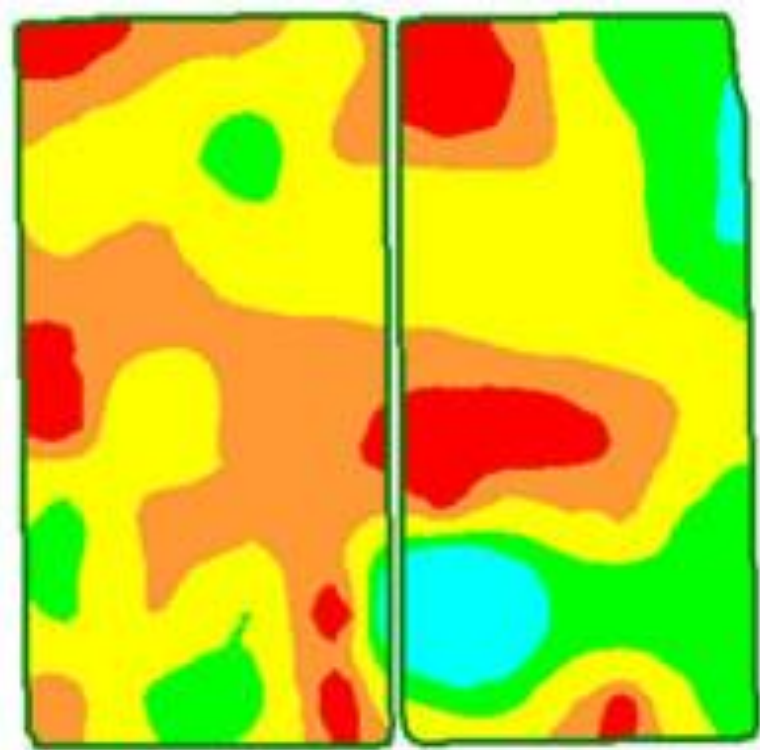
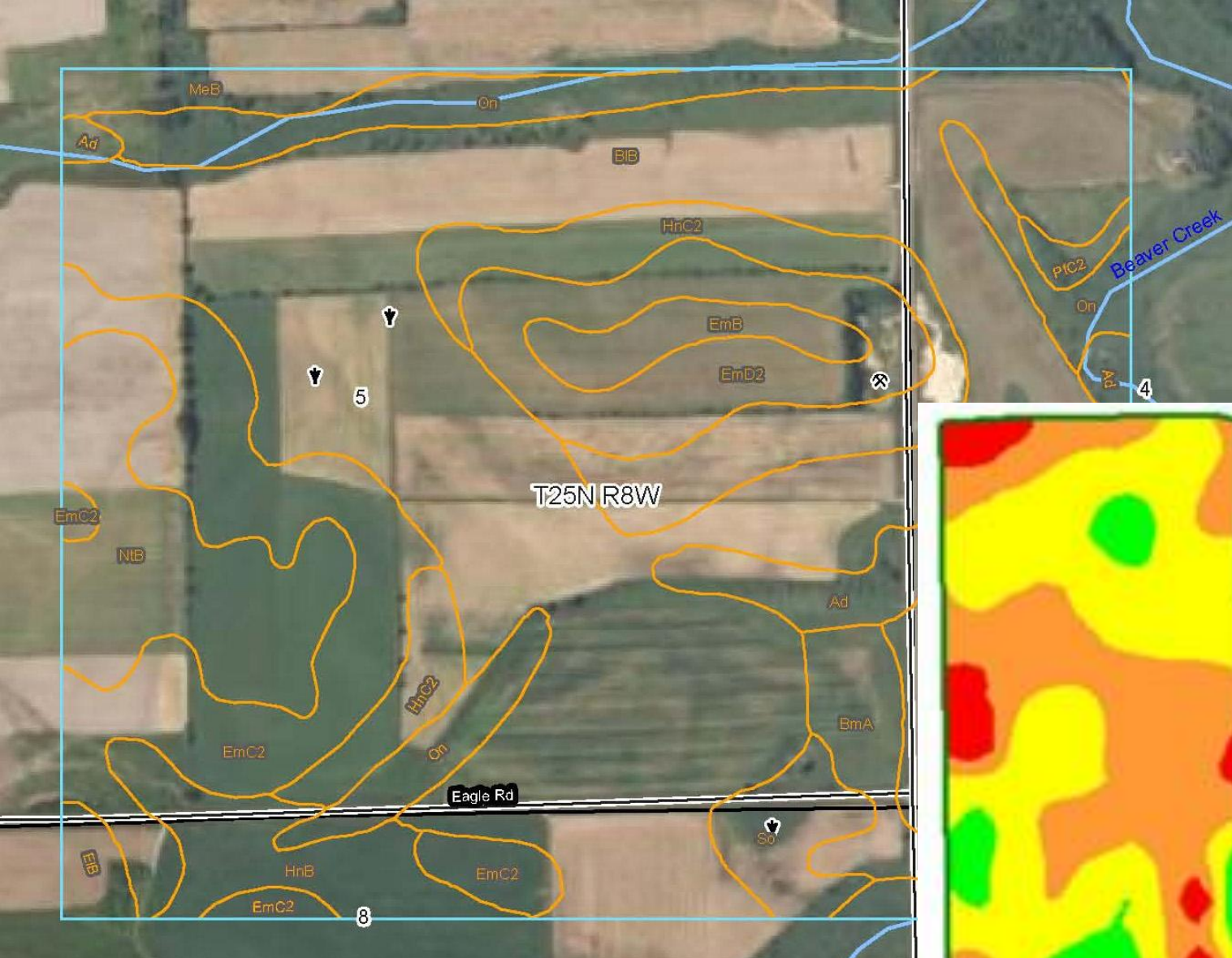
- Affinity of the soil matrix for water
- Units:
 - Bars
 - Kilopascals
 - 1 Bar = 100 kilopascals

SOIL MOISTURE CONTENT

- Total amount of water in the soil
 - Percent water by mass (weight)
 - Percent water by volume
- Units:
 - Percent (%)
 - Lbs water / Lbs of soil
 - Gallons water/ Gallons of soil

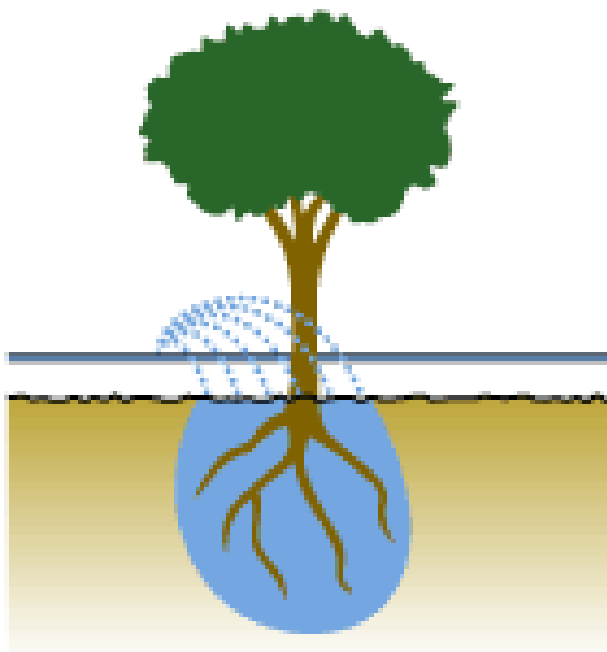
WATER USE



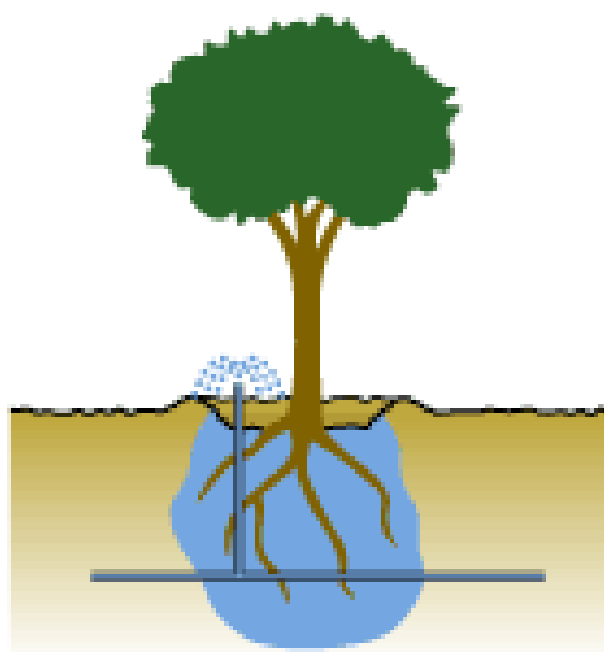


Agronomic Variability

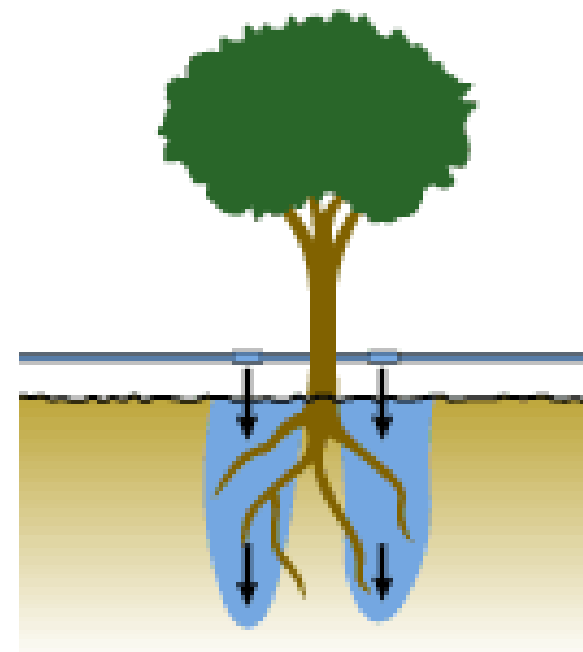




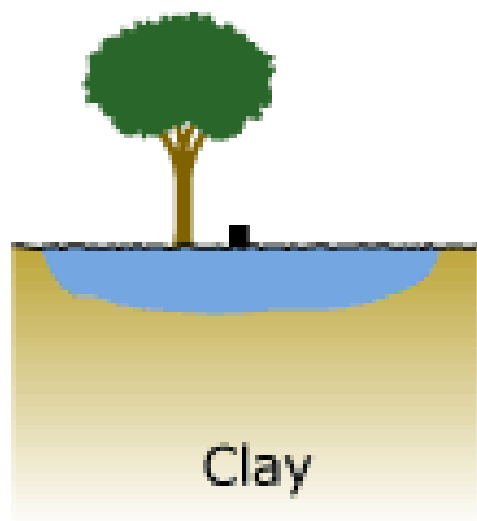
A



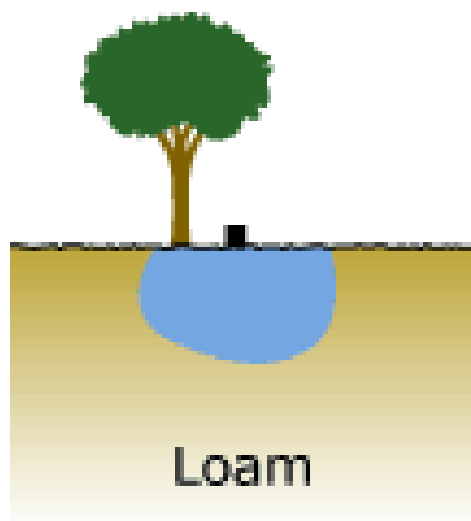
B



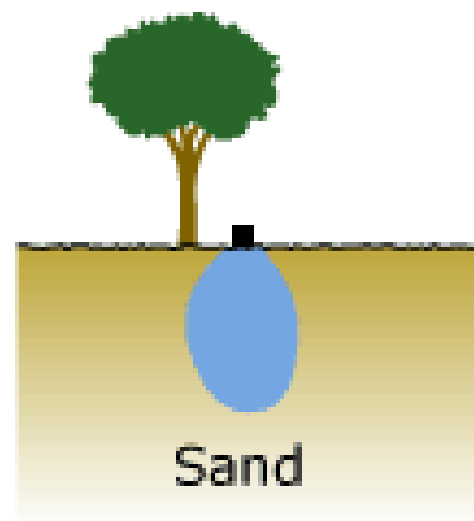
C



Clay



Loam



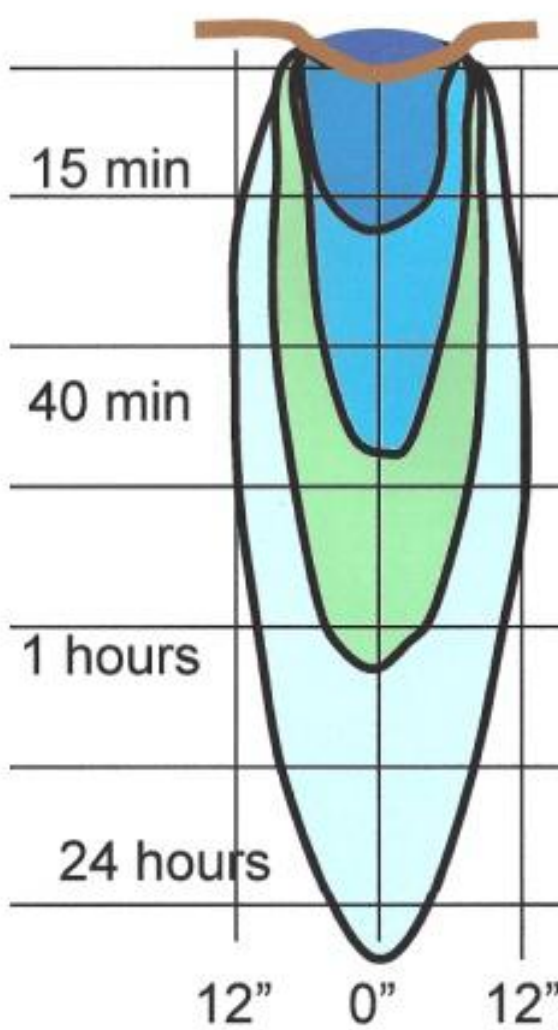
Sand

D

Large Pore Space

Gravitational Pull

Sandy Soil



Small Pore Space

Capillary Action

Clayey Soil

