



Our Presenters...

Our presenters



Valerie Caruso, FWS, CWE

Our presenters



Sam Schmitt,
CS, CSS,
CWE

Our presenters



Jane A.
Nickles
CSE, CWE

Our Agenda...

Sizing up Soil, Dressing Down Dirt–Jane

5 minute break!

The Dirt on the Pacific Northwest –Sam

South Africa: New World Wines from the Oldest
Vineyard Soils in the World–Valerie

Eavesdropping on the “M” Word: a Brief
Conversation on Minerality –Jane

Chalk Talk: Champagne, Chablis, and the
Dirt They Love –Valerie



What is soil?

The top layer
of the earth's
surface

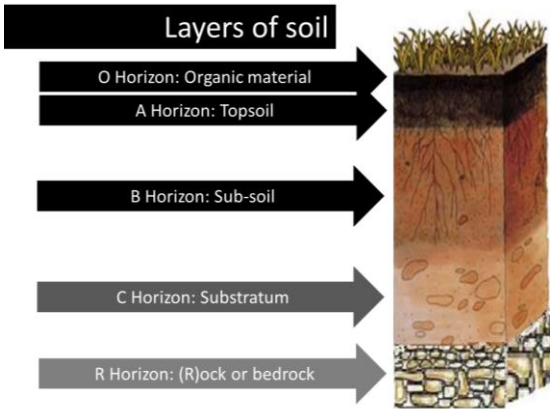
Able to retain
water &
sustain plants

Rock and mineral
particles mixed with air,
water, and decayed
organic matter

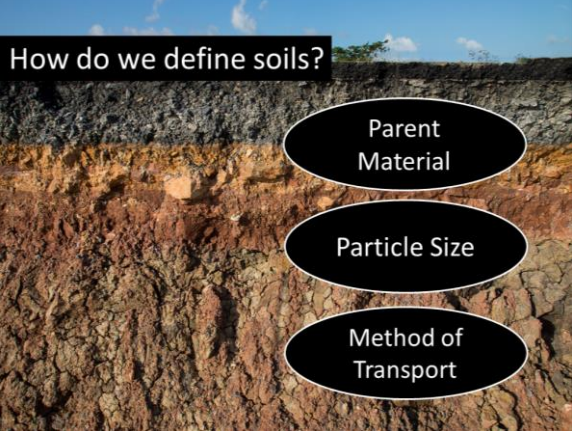
What is dirt?



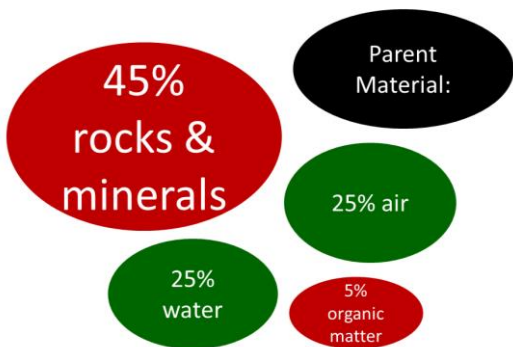








Parent material...



Minerals

The "building blocks" for rocks.

- Inorganic
- Natural
- Specific chemical structure
- Crystalline structure
- Specific physical characteristics

For example...

Pyroxene

Feldspar

Olivine

Mica

Quartz

Amphibole

Calcite

Aragonite



Calcite



Rocks

Composed of minerals

Naturally occurring

Do not have a specific or common structure

Differentiated by mineral composition and texture

Rocks

Igneous



Granite

Gabbro

Basalt

Metamorphic



Gneiss

Schist

Quartzite

Sedimentary

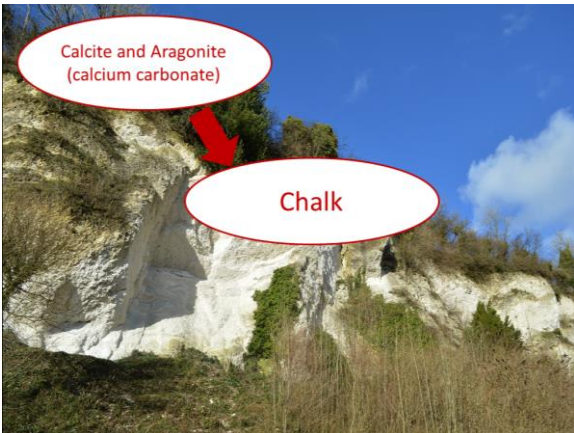


Sandstone

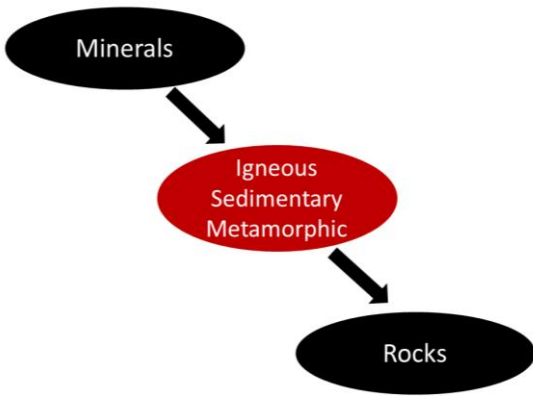
Shale

Flint

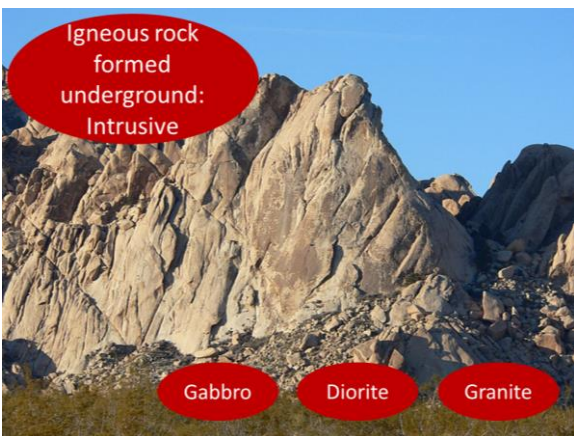


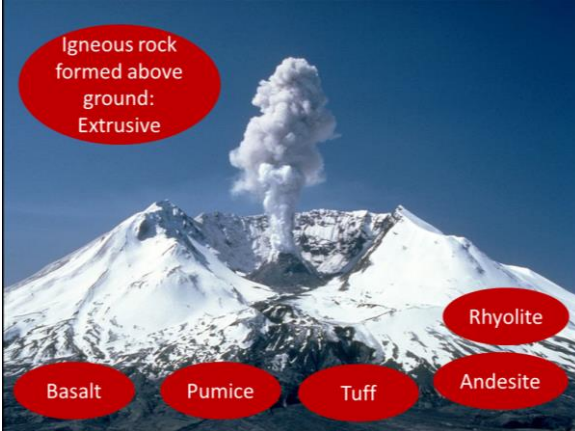


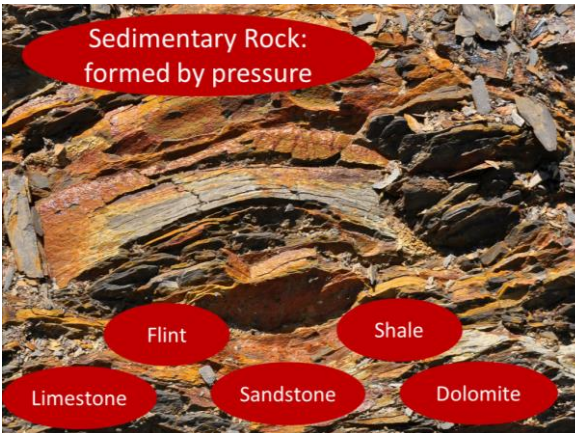




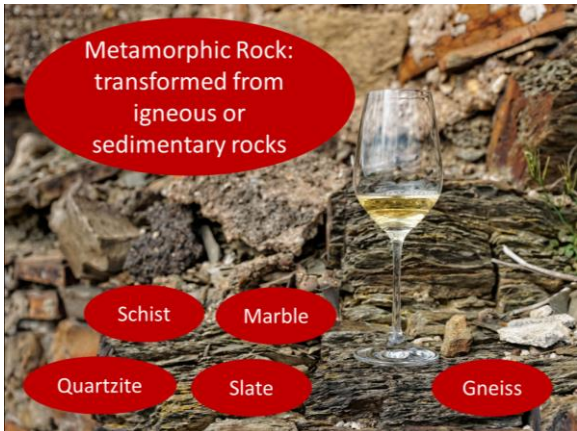


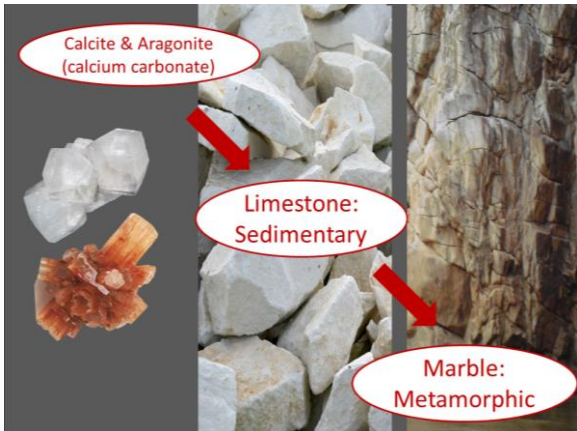




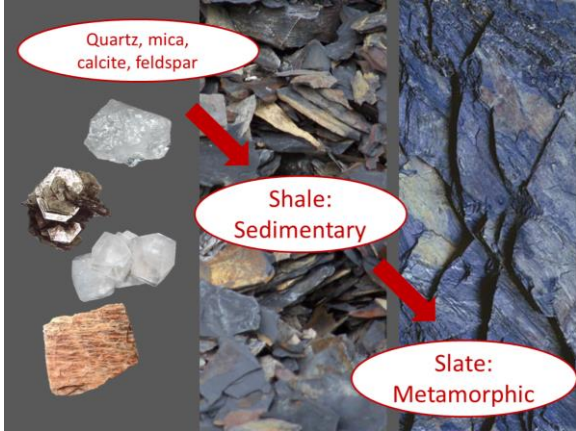




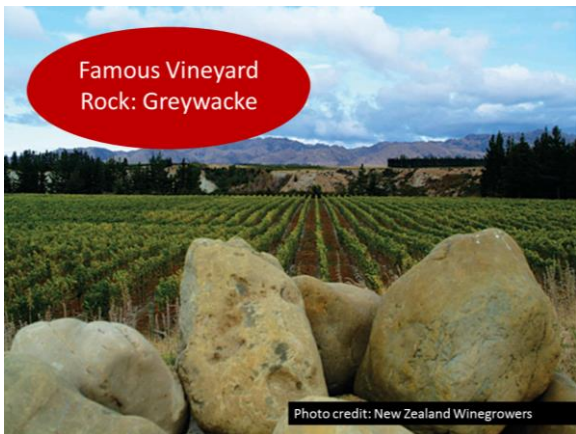


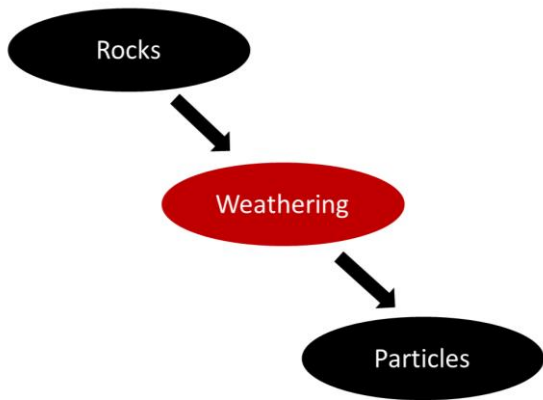


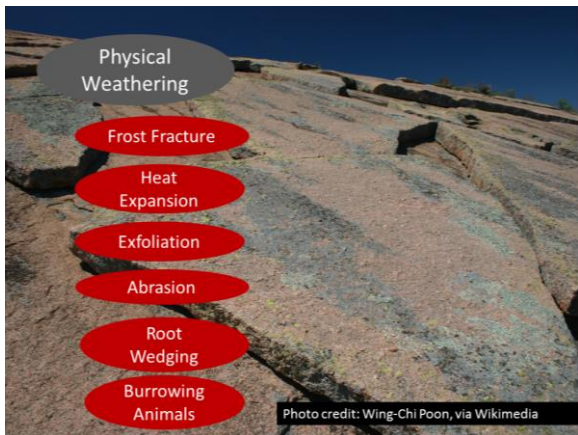


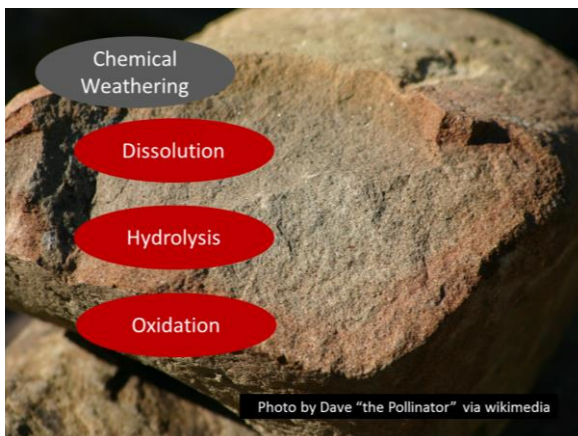




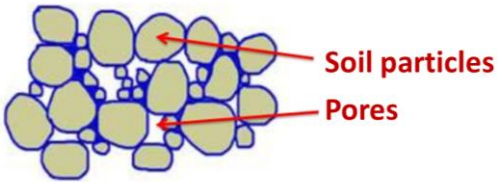






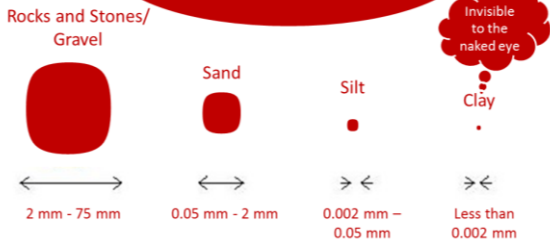


Particle Size...



Particle size determines the size of the pores between the particles.

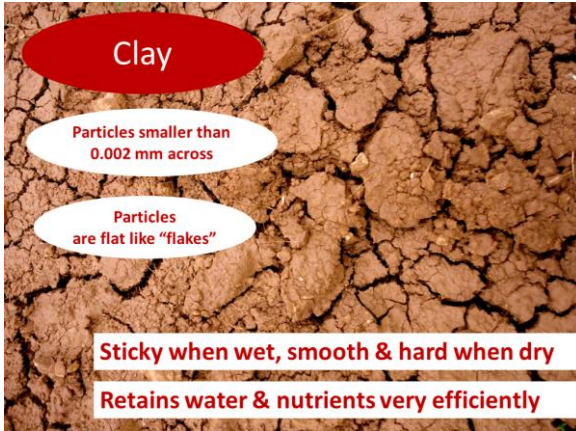
Relative Particle Size

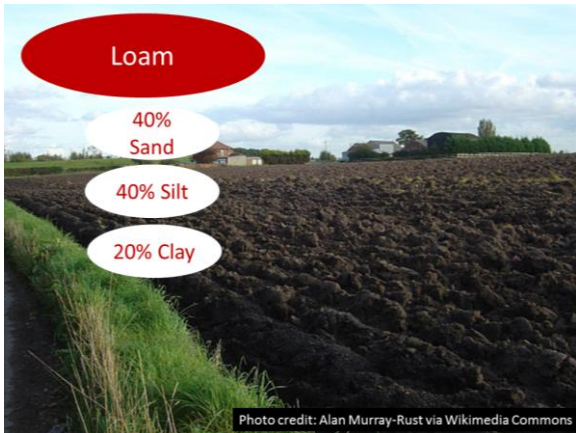


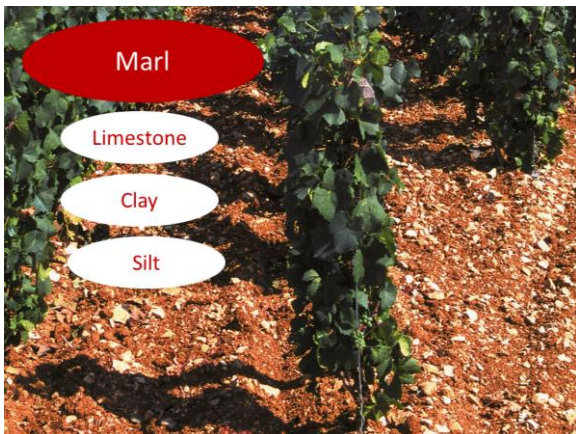




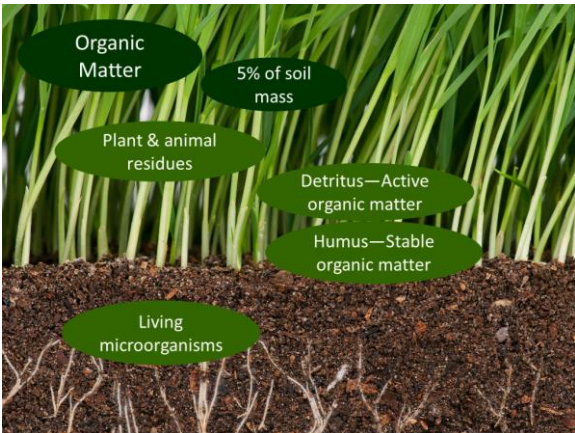




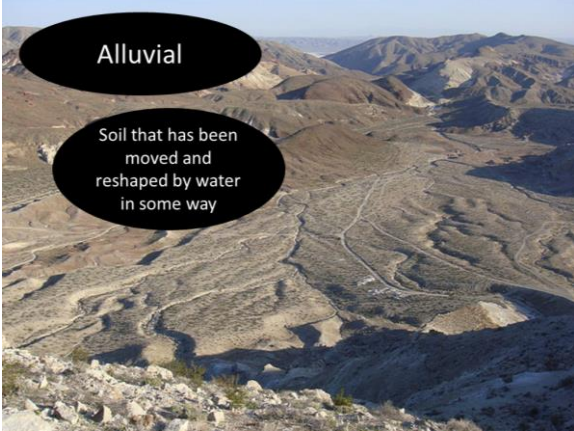


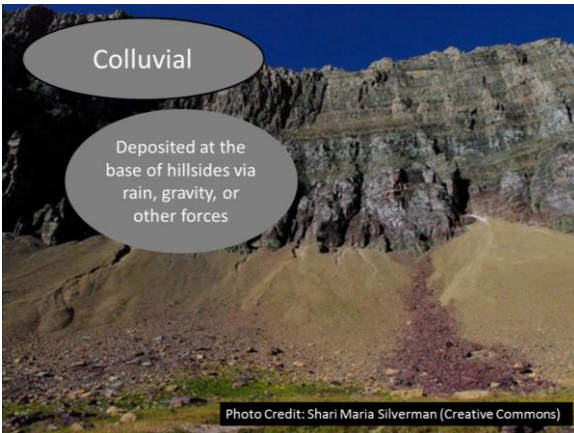


Soil also contains
air, water, organic
material...



Method of
Transport...



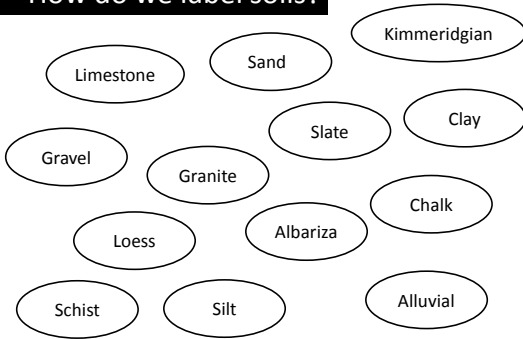


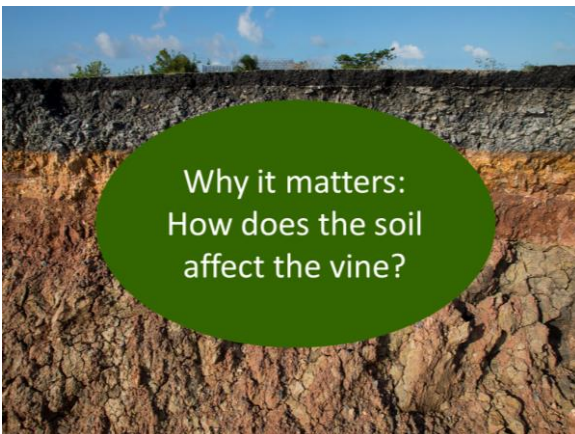




A Quick Re-Cap:

How do we label soils?





Why it matters:
How does the soil
affect the vine?

















