Determining SHWT

A draft treatment of rules ported for Landjudging

Iron-Rich Soils

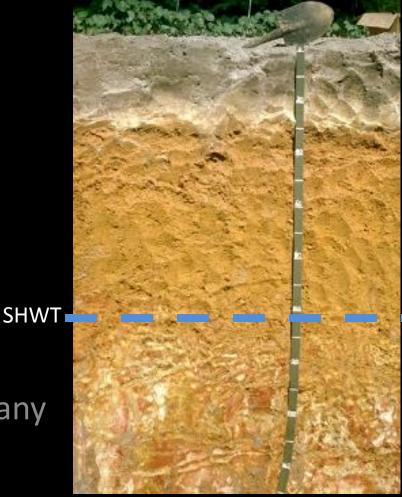
Look for redox depletions

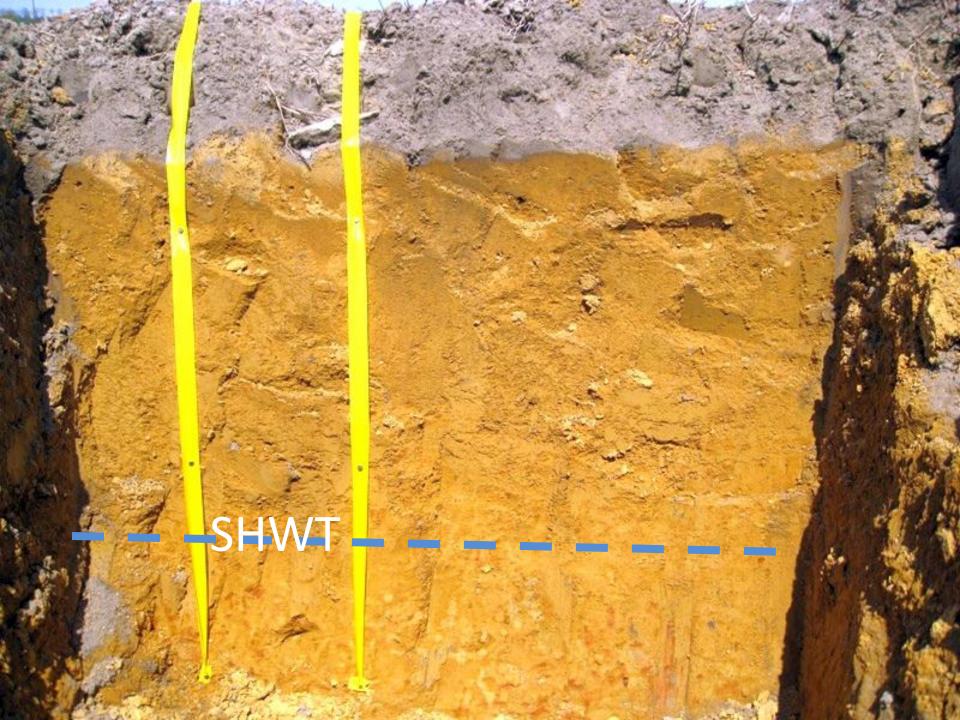
Depletions are "dull grey"

Sometimes, most of Horizon is depleted

Concentrations typically accompany depletions, but are ignored. Just look for depletions.

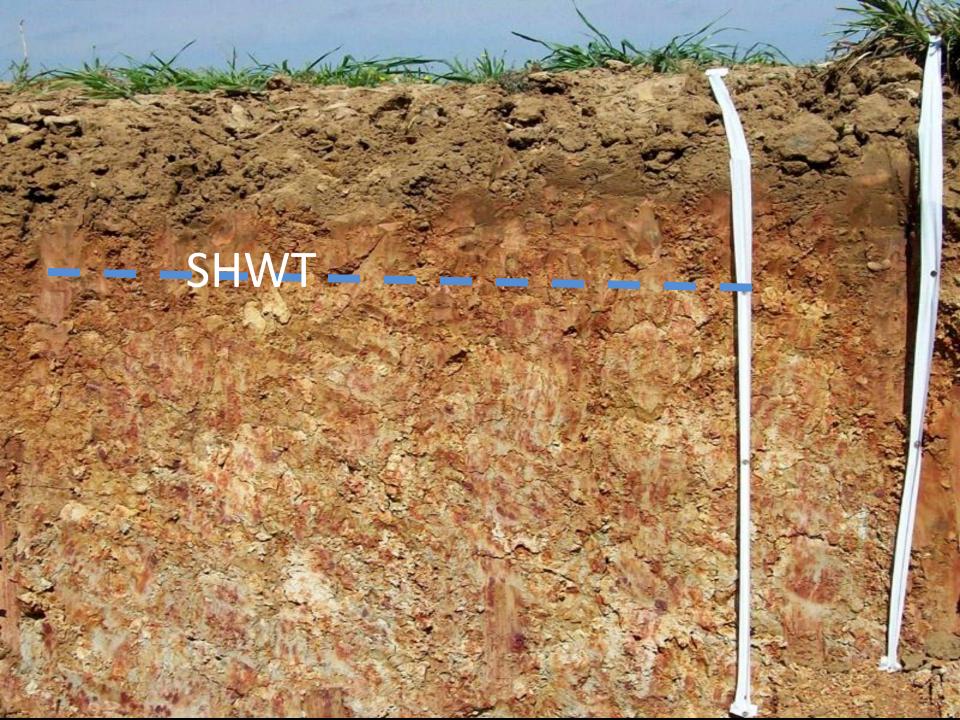
This is the consequence of ample iron.





Redox Concentration (ignore)

Redox Depletion



Iron-Poor Soils

Look for redox concentrations or

Stripping (maybe)



Stripped area: faint, diffuse, splotchy removals of organic matter

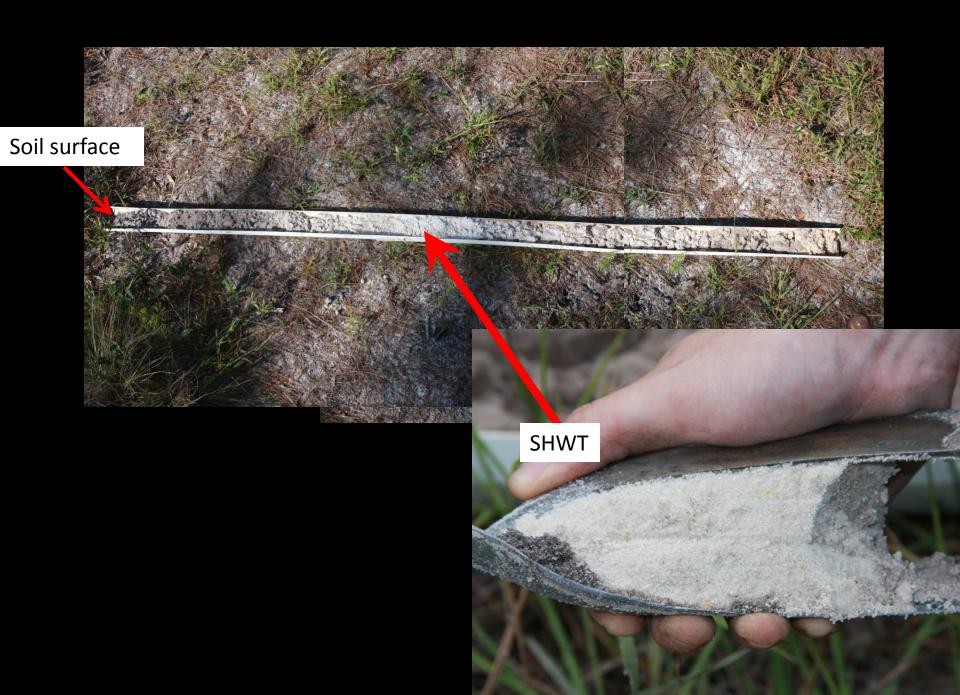


Stripped area: faint, diffuse, splotchy removals of organic matter



Redox Concentration Most of the horizon is stripped, but you can still see faint-diffusesplotchy

Redox Concentration



Rules

- If loamy or clayey, SHWT at upper limit of 2% redox depletions
- If sandy, SHWY at upper limit of 2% redox concentrations or 10% stripping
- If spodic horizon present, SHWT probably ½ way between top of spodic and soil surface. Look for stipping as evidence and significant root die-off.
- If redox conc. below the spodic and stripping above, SHWT at stripping.
- If redox below and no stripping above, then SHWT below spodic at the top of the redox conc. These can be tough.
- Students tend to chase stripping all over the place. Best to ignore it.
- I am undecided how technical to get with this.