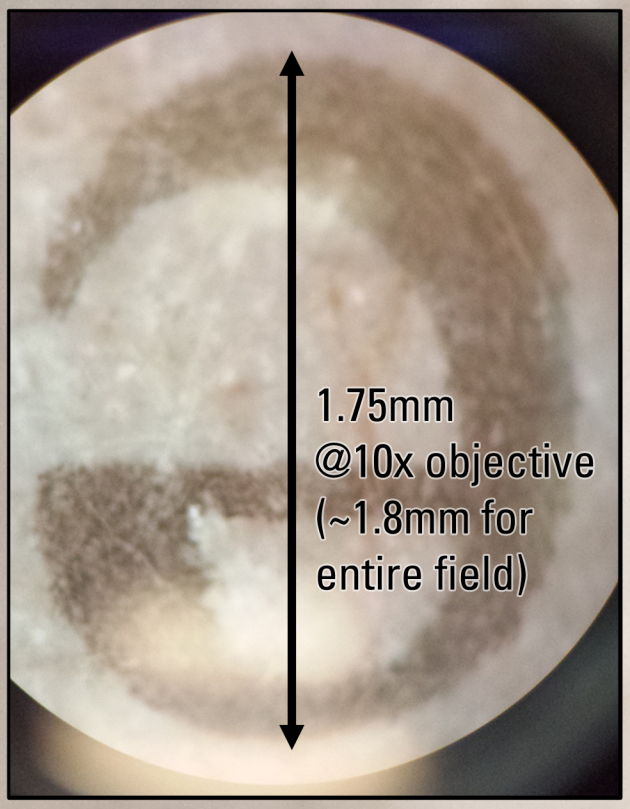
FIELD OF VIEW CALCULATIONS

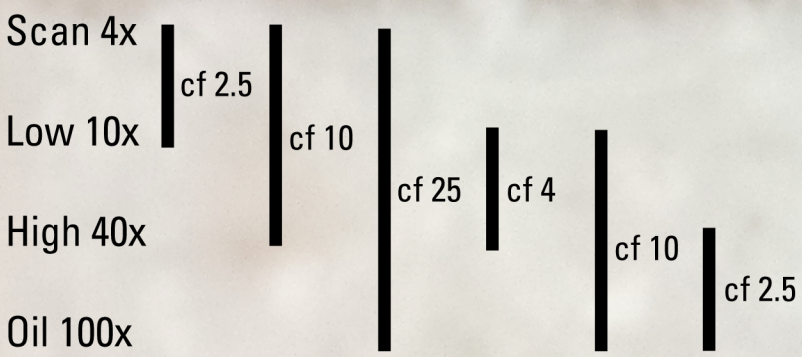
When using a microscope, it is important to understand the scale/size of what you are looking at. The field of view is that area you see when you look into the eyepiece, the ocular. At a higher magnification, the field of view decreases; at a lower magnification, the field of view increases.

The total magnification = the power of the ocular (usually 10x) * the power of the objective.



Calculating Conversion Factors

Lens/Magnification



Calculating Conversion Factors

Lens/Magnification	Field of View Diameter
Scan 4x	2.5*1.8mm = 4.5mm
Low 10x	1.8 mm
High 40x	1.8/4=0.45mm
Oil 100x	1.8/10 = 0.18mm