Taylor Earl

10/21/14

Geology

* Erosion is the movement of things by streams
* Mass Movements
  + translational
    - occur on inclined slip planes, parallel to earth surface
  + rotational
  + Driving forces
    - cause earth to move
      * gravity
  + Resisting Forces
    - oppose the movement- friction and inertia
  + slip planes
    - surfaces earth material move along
  + Safety Factor = resisting/driving
  + SF greater than 1.25 is prefered (greater is better)
* Landslides
  + Factors considered in assessing the likelihood and magnitude of a landslide
    - Climate
    - Sediment/Rock Type
    - Water Saturation and sudden storms
    - Groundwater levels
    - Slope angle
    - Undercutting
    - Development and Construction