

Fluvial processes

- Hydrology
- Fluvial processes

3 processes

- 1) stream erosion
 - Hydraulic action
 - abrasion
- 2) stream transport
- Competence
 - $F(V)$
- Capacity
- Grain size
 - Gravel
 - Sand
 - Silt
 - clay
- Dissolved load
- Suspended load
- Bed load

stream load and channel morphology

- high bed load

- Suspended load

Stream measures

- Velocity

- competence

- Hjulstrom

- -What is the minimum velocity that a 0.01 mm piece of silt would be eroded?

- At a velocity of 10 cm/sec, what materials would be deposited?

- At a velocity of 1 cm/sec, what materials are being transported?

Discharge (Q)

- $Q = wdv$ (cfs)
problem

gradient