

STREAM PROCESSES

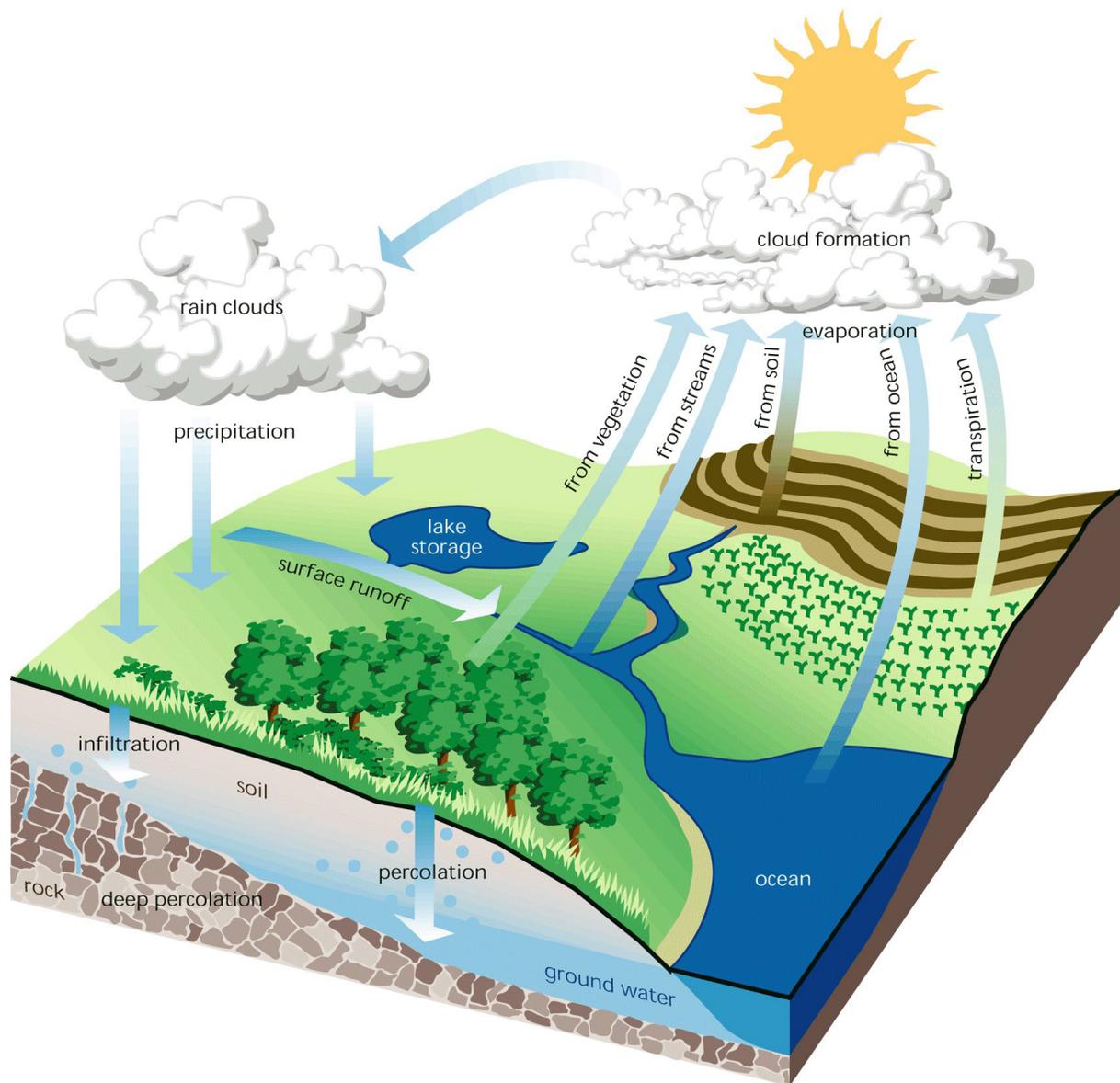
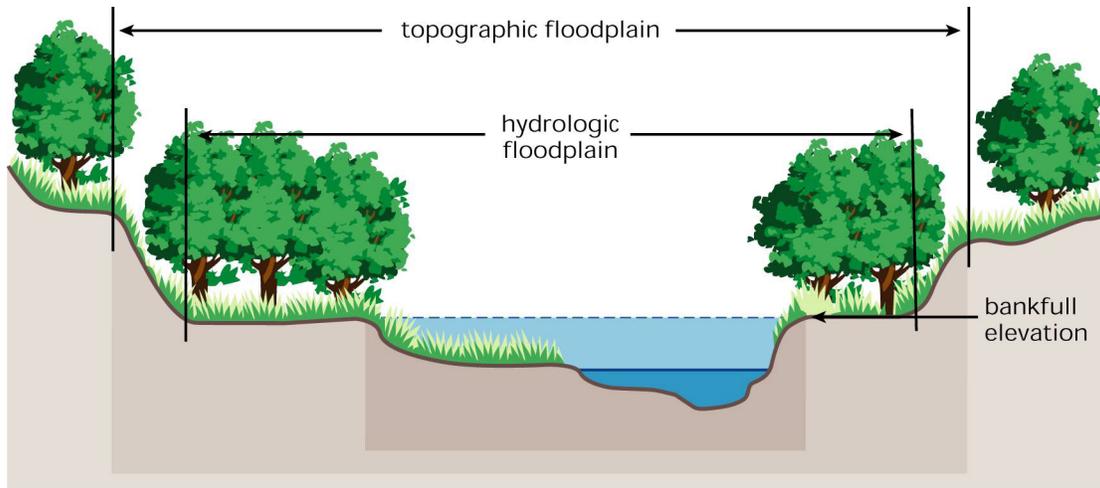


Fig. 2.2 -- The hydrologic cycle. The transfer of water from precipitation to surface water and ground water, to storage and runoff, and eventually back to the atmosphere is an ongoing cycle. In Stream Corridor Restoration: Principles, Processes, and Practices (10/98). Interagency Stream Restoration Working Group (15 federal agencies)(FISRWG).

Hydrologic and topographic floodplains

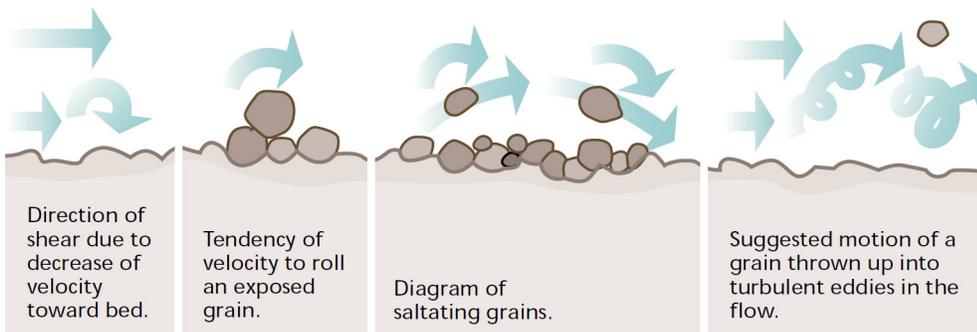
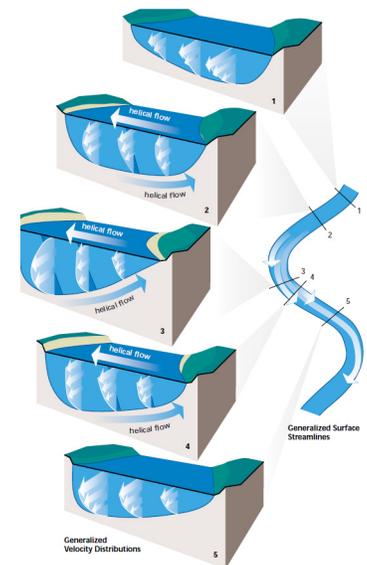
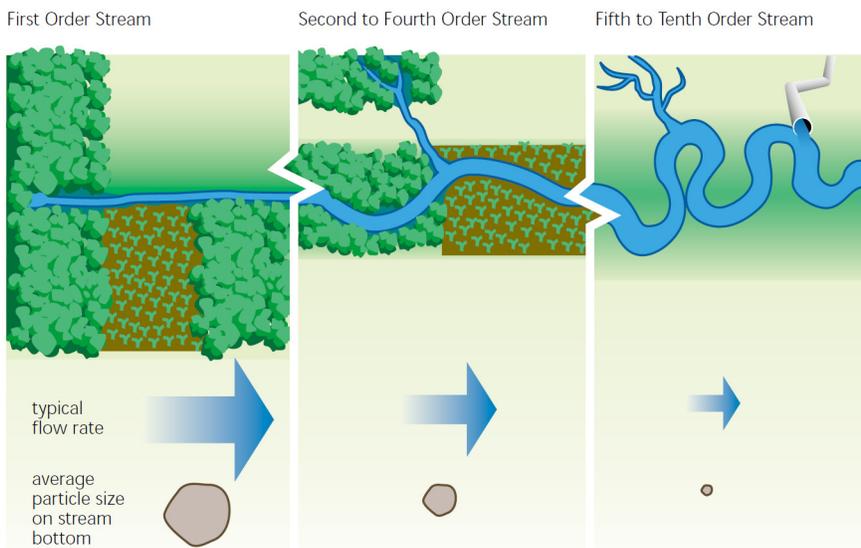


The three primary geomorphic processes that are involved with flowing water:

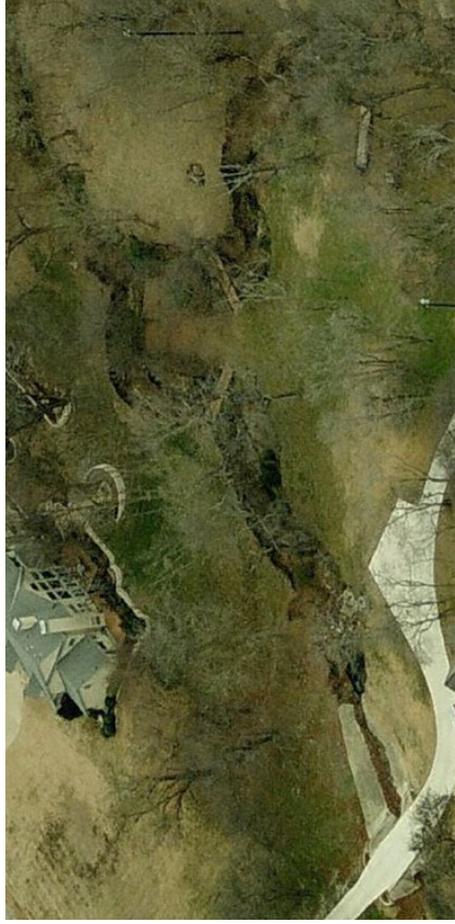
Erosion, the detachment of soil particles.

Sediment transport, the movement of eroded soil particles in flowing water.

Sediment deposition, settling of eroded soil particles to the bottom of a water body or left behind as water leaves.

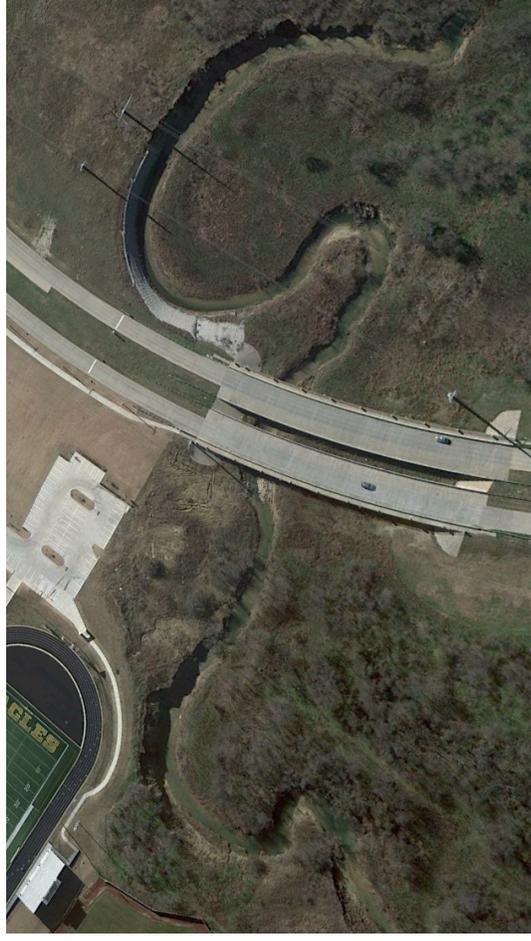


FRISCO EXAMPLES



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Building placement can become a critical issue if stream buffers are not considered. In these examples, the creeks are encroaching on a high school and several homes.





The developer built a stacked concrete bag wall to prevent the loss of this home. The homeowner and HOA will have to pay for a permanent solution or homes in this cul-de-sac will remain at risk.



In this case both the roadway and the home were built too close to the creek. Both were threatened after the retaining wall failed in heavy rain in 2008.



Erosion behind many lots in this subdivision is almost man-deep, and has come very close to homes (note the building in the photo background).



Falling fences are a common site where the creek bed has eroded out the soil from underneath the fence and support posts.



The creek has encroached upon this backyard, causing the loss of landscaping and requiring the fence to be replaced in a position much further back into the property (note crumbling pathways that previously went around the tree).



At this location a tree has fallen into the creek bed, narrowing the channel and increasing the erosion pressure on the homeowner's property. (Note the nearby home and play equipment in the photo.)