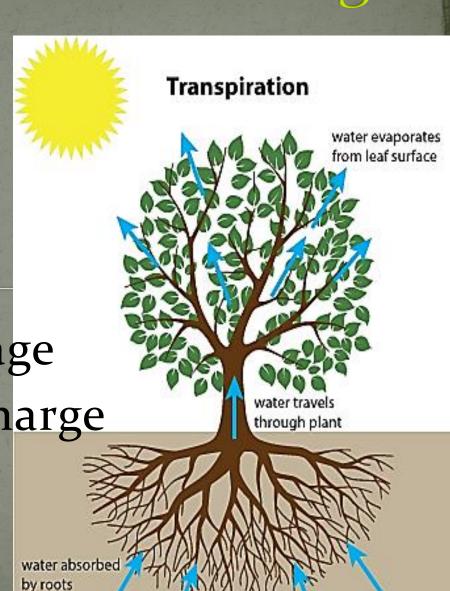
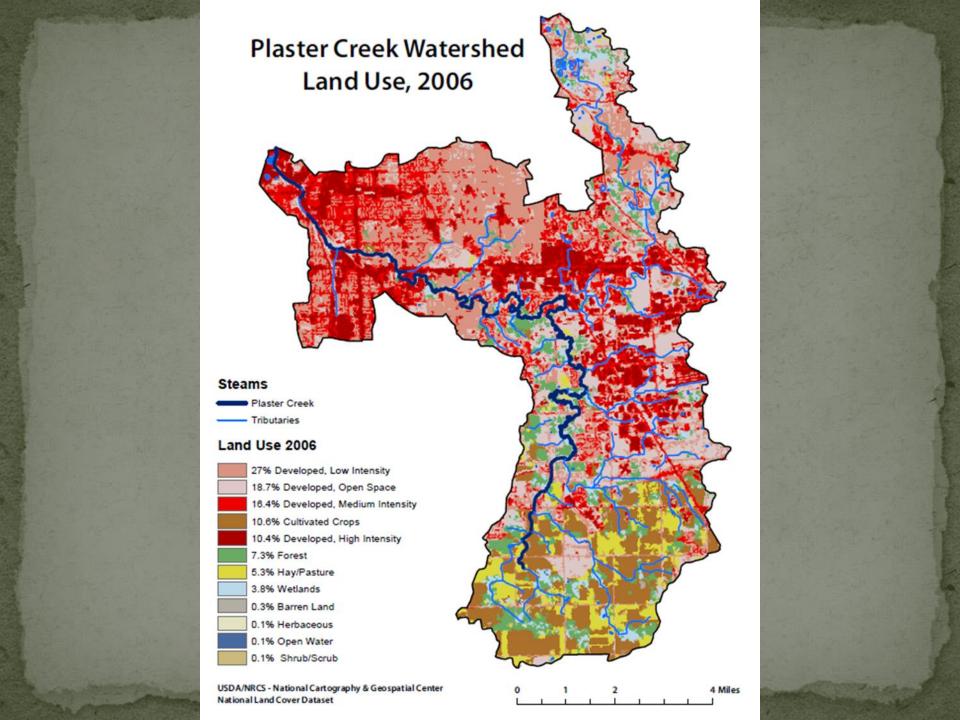


Natural Rainwater Processing

- Interception
- Evaporation
- Infiltration
- Transpiration
- Groundwater storage
- Groundwater discharge

(Surface Runoff)





Urban Rainwater Processing

Interception

Evaporation

Infiltration

Transpiration

Groundwater storage

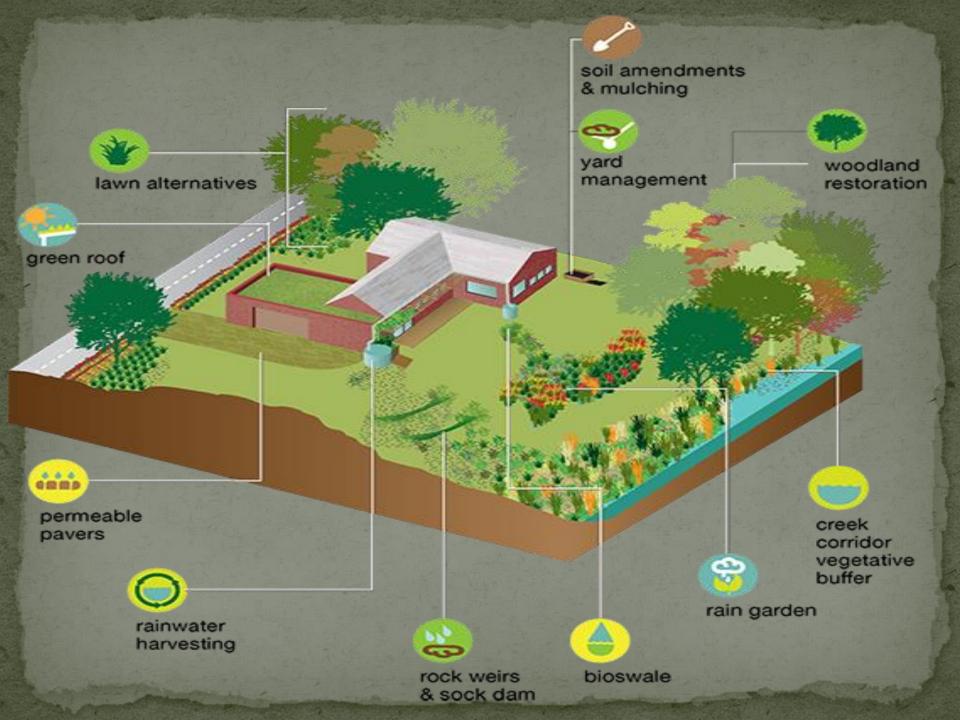
Groundwater discharge

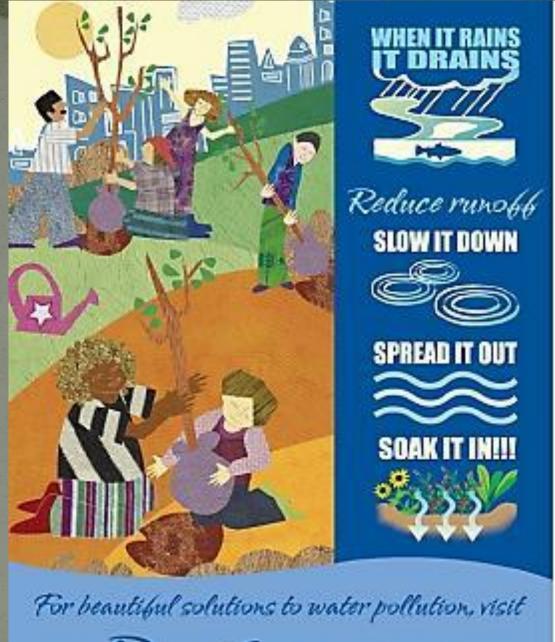
Surface Runoff!



Stormwater Footprints and Rainscaping

- Stormwater Footprint Percentage of rainfall that flows off a parcel of land (parking lot ≈ 100%)
- Rainscaping managing landscapes of homes, businesses, churches, schools, etc. in ways that minimize the amount of stormwater runoff
- Numbers to Consider:
 - A one inch rainfall = 27,154 gallons/acre Grand Rapids mean annual rainfall = 37.13 in That equals 1,008,228 gallons/acre/year!!!
- Possible Future Stormwater Utility





RainScaping.org

Rainscaping examples

Three case studies that range from bare bones to complete rainwater makeover



Along Plaster Creek

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Final thoughts

- On aesthetics...
- Personal choices, policies
- Maintenance
- Costs pay off over time

