Trees Tame Stormwater RAIN REFRESHES
THE LAND AND NOURISHES THE

GREEN LANDSCAPE But as houses, stores, schools, roads and parking lots spread and natural tree cover is lost, so is the absorbing effect of vegetation and soil. The welcome rain becomes costly stormwater runoff. Without the benefit of trees and vegetated infrastructure, waterways are polluted as oils, heavy metal particles and other harmful substances are washed away. Fish and wildlife suffer, drinking water becomes expensive or impossible to reclaim, property values are reduced, and our living environment is degraded.

Trees make a difference and every tree matters. It's never too late for municipalities, homeowners, businesses, and schools to plant abundant trees to retain more water on site, enhance percolation into the soil, reduce the expense of pipes and treatment plants, and protect environmental quality. For more information, including an interactive version of these pages, please visit arborday.org/stormwater.

1 Treeless Parking Lots are unsightly, add to stormwater runoff and are a source of heat that is not only uncomfortable but increases air pollution.

2 Treeless Streets deprive the community of social benefits and ecological services. Following storms, water rushes along the street sides.

3 Asphalt Playgrounds are unnatural places for children to play, contributing to a disconnect with nature. The solid surface also prevents rain from slowly re-charging groundwater, instead adding extra volume to runoff.

Few Trees

4 Treeless Homes and Yards reduce property values, increase energy costs and allow rainfall to rush into gutters.

6 Compacted Lawns without trees are not only less appealing. they often can't soak up heavy rains fast enough. Excessive runoff flows across sidewalks and down driveways and streets

5 Erosion-prone Rivers eat away at adjoining property, destroy fish habitat and fill in reservoirs and waterways with silt.

> 7 Overwhelmed Sewage Systems can lead to untreated sewage being swept into waterways. Upgrades are expensive, adding to local tax burdens.

Leaves break the force of falling rain and reduce soil erosion. They retain 2 – 7 percent or more of the water produced by a short downpour, allowing it to slowly evaporate back into the atmosphere. As leaves decompose on the ground, they help build a spongy layer of topsoil that retains water and contributes to plant growth.



against erosion. They also take up quantities of water that would other-

1 Well-Landscaped Parking Lots can be designed to slow

community. They cool parked cars,

reducing evaporated gasoline that

contributes to air-polluting ozone.

Tree shade also adds longevity to

2 Tree-lined Streets retain

and cleansing runoff. They also

pollution, calm traffic and lower

large volumes of rainfall, reducing

increase property values, encourage

shopping and business, reduce air

paved surfaces.

noise levels.

storm runoff and beautify the

wise be added to runoff.



