



Photo courtesy of Watershed Management Group

What are the Community benefits of LID?

- Flood reduction
- Water conservation
- Water security
- Erosion protection
- Increase property value
- Energy conservation
- Cool your yard
- CO\$T SAVINGS\$!

If you are enjoying this brochure and would like to see more information see the Santa Cruz County Water Harvesting Guidance Manual on the County's website or contact:

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Photo courtesy of The City of Las Cruces

Rain Garden harvesting parking lot runoff for native grasses and trees

SANTA CRUZ COUNTY

Flood Control District

Introduction to Low Impact Development for Flood Protection and Water Sustainability

Low Impact Development (LID) is a cost-effective method to utilize rainfall and runoff as a resource to protect and enhance your property and save you money!



Photo and figure courtesy of Watershed Management Group

RAIN GARDEN BENEFITS

1 Dollar invested in Rain Gardens **Provides \$3-6** in financial benefits

- ➔ Flood Risk Reduction
- ➔ Water Conservation
- ➔ Cooling
- ➔ Energy Savings
- ➔ Air Pollution Reduction
- ➔ Increased Property Value
- ➔ Water Quality Improvement

1 Residential Rain Garden Annual Benefits

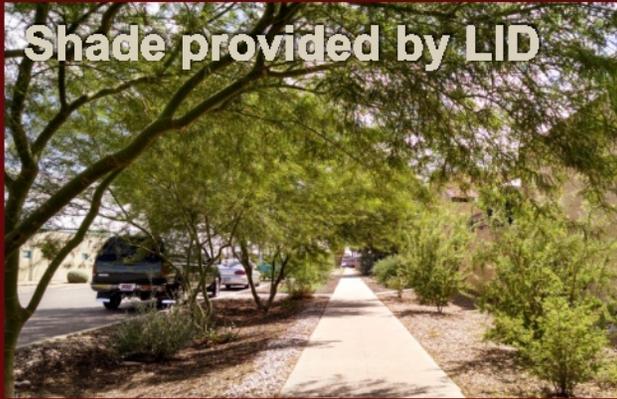
- ➔ Captures 10,000 gallons of stormwater
- ➔ Provides \$3,000 in financial benefits
- ➔ & 3,000 gallons of groundwater recharge

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What does Low Impact Development look like?



Shade provided by LID

Photo courtesy of Watershed Management Group
LID project without an irrigation system shading a Phoenix sidewalk.



Curb Cut

Photo courtesy of Watershed Management Group
Solving flooding challenges with LID stormwater infrastructure - Tucson Airport Wash curb cut.



Community Effort

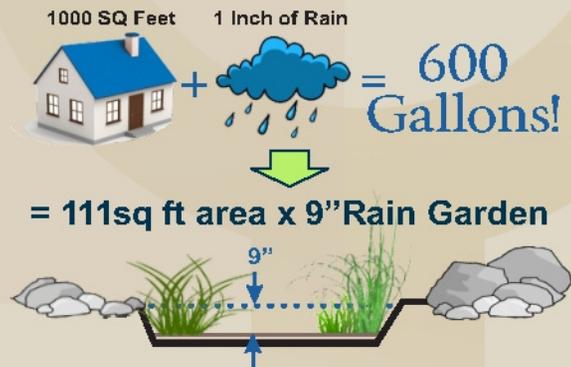
Photo courtesy of Watershed Management Group
Preparing the sediment trap for a roadside rain garden.



Rain Garden

Rain gardens are sunken garden areas where the existing soil has been loosened and covered with wood mulch. It is planted with deep rooted native vegetation that capture, absorb and help infiltrate stormwater.

Make sure to size for a larger rainfall event!



One Rock Dam

One rock dams are an important tool for residential scale erosion control. A series of one rock dams in a wash can be much more effective than check dams due to their ease of construction and reduced risk of failure.

**Don't let it get away!!
Make stormwater work for you and the environment!**



Sediment Trap

Photo courtesy of Watershed Management Group
Sediment traps are one of the most important and often overlooked components of LID. Managing sediment in an arid environment is especially important given the sheer volume of sediment laden stormwater in the mainly rural areas of Mohave County.



Rain Tank

A Rain Tank offers residents of arid regions an important method to store water during dry periods for future outdoor use as well as indoor use if treated appropriately.