Rain Gardens in Worcester

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Rain Gardens in Worcester
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Problem
Runoff Pollution

Combined Sewage Overflow
• Cause eutrophication and increase disease vectors

Heavy Metals
• Leached from impermeable surfaces (Pb, Zn, & Cu)

Phosphorus
• Small quantity causes eutrophication

Nitrogen
• Large quantity needed for eutrophication

Solution
Rain Garden

Data Collection & Analysis

Expected Reduction of Pollutant Loads with Rain Gardens

Interviews
Comparative Case Study Analysis

Implementation

Plant | Quantity | Price $ | Total $
--- | --- | --- | ---
Giant Hyssop | 7 | 19.49 | 136.43
White Turtle-head | 8 | 8.98 | 71.84
Joe Pye Weed | 4 | 8.98 | 35.92
Switchgrass | 5 | 12.98 | 64.90

This is for a 36 square foot rain garden with one plant for every 1.5 square feet. It would be able to absorb the runoff for approximately 108 square feet.

Do-it-yourself App

Created by University of Connecticut to help people learn about rain gardens. The QR above will link iPhones to the App Store to download the app.

References


Source: https://itunes.apple.com/us/app/rain-garden/id588712983?mt=8

