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| Soggetti | Regional planning<br>Urban planning<br>Water quality<br>Water pollution<br>Hydrology<br>Urban ecology (Biology)<br>Landscape/Regional and Urban Planning<br>Water Quality/Water Pollution<br>Hydrology/Water Resources<br>Urban Ecology |
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| Nota di bibliografia | Includes bibliographical references. |
| Nota di contenuto | Introduction -- Selection of Plants that Demonstrated Nitrate Removal Characteristics -- Inspection and Maintenance Guidelines. |
| Sommario/riassunto | As cities develop, more land is converted into impervious surfaces, which do not allow water to infiltrate. Careful urban planning is needed to ensure that the hydrologic cycle and water quality of the catchment areas are not affected. There are techniques that can attenuate peak flow during rain events and reduce the amount of metals, nutrients, and bacteria that enter the urban water cycle. This brief gives a short introduction on bioretention systems and documents the effectiveness |

of some 36 plant species in removing water pollutants. A summary on the maintenance requirements is also presented. .