

ALTERNATIVE SURFACE MATERIALS

The surface that covers an area affects the way water is transported and stored.

IS coverage stops the natural process of removing pollutants from runoff by preventing percolation of runoff on-site. The use of pervious material allows runoff to be filtered on-site. Reducing IS helps decrease the pollutant load transported into our waterways.

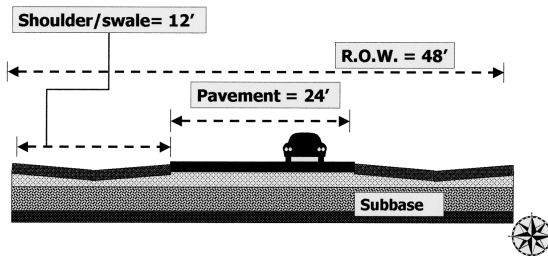
Invisible Structures, Inc. and Presto Products Company provide alternative materials for constructing durable surfaces without compromising water quality.

For more information on these materials:

www.invisiblestructures.com
www.prestoeco.com

ALTERNATIVE DESIGN

Smart development can protect water quality. IS can be reduced by decreasing the size of driveways, cul-de-sacs, and roads. The natural drainage patterns can be preserved with the use of swales located on the outer edges of paved roadways.

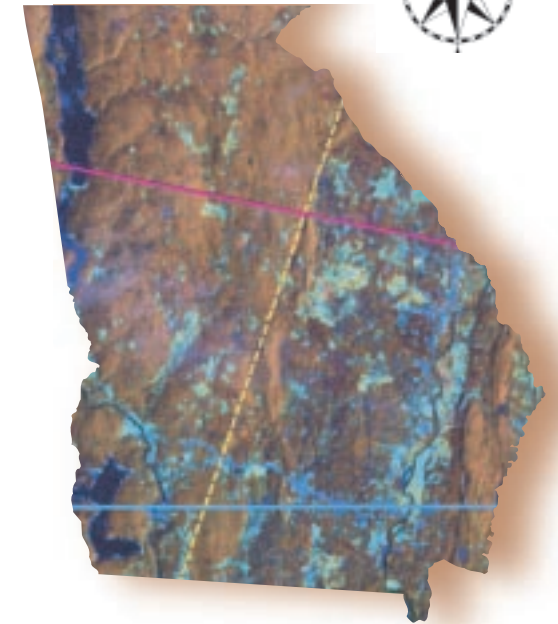


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www.marsci.uga.edu/ext/marex.html

The University of Georgia Marine Extension Service is a program of marine education, applied marine research and technology transfer. It maintains an aquarium and education facility, with programs for kindergarten through elder hostel, outside of Savannah on Skidaway Island. Its Marine Advisory Service, located on the waterfront in Brunswick, identifies marine resource problems and then serves as a conduit through which university expertise is directed toward solving the conflicts and meeting the needs of many coastal and inland constituents.

Non-point Education for Local Officials




The University of Georgia

Marine Extension Service

What is NELO?

NELO is an educational program for land-use decision makers. The program addresses relationships between land use, water quality, and natural resource protection.

NELO is the Georgia chapter of the national NEMO program, which began in 1991 at the University of Connecticut. The national program is active in 19 states in the USA.

www.nemo.uconn.edu

NELO'S THREE-TIERED STRATEGY FOR COPING WITH POLLUTED RUNOFF

1st COMPREHENSIVE PLANNING

NELO's first task establishes an inventory of natural resources, prioritizes areas of protection, develops an action plan at the watershed level, and revises zoning and subdivision regulations to support the plan.

2nd SITE DESIGN

The second task is to minimize the impact of development on the environment, encourage riparian buffers along streams and rivers, and to retain the natural landscape and native plants in developed areas whenever possible.

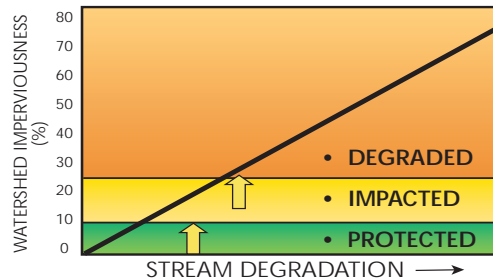
3rd LAND STEWARDSHIP

The final step in the three-tiered strategy is to maintain Best Management Practices (BMPs), encourage on-site stormwater control, and to re-use or remodel existing commercial or residential development to help reduce further suburban/urban sprawl.

IMPERVIOUS SURFACE (IS) areas consist of roofs, sidewalks, driveways, parking lots and roads. Non-point source pollutants accumulate on these surfaces and can be transported into storm drains, ditches, streams, rivers and estuaries. As IS increases, the velocity and volume of surface runoff increase overloading our waterways with pollutants.

NELO uses a simple but effective tool to estimate the amount of pollutants entering a watershed: the percentage of IS covering the land encompassing the watershed. Increasing levels of IS lead to impacted land (>10%) and degraded land (>25%).

Waterway Health & Imperviousness

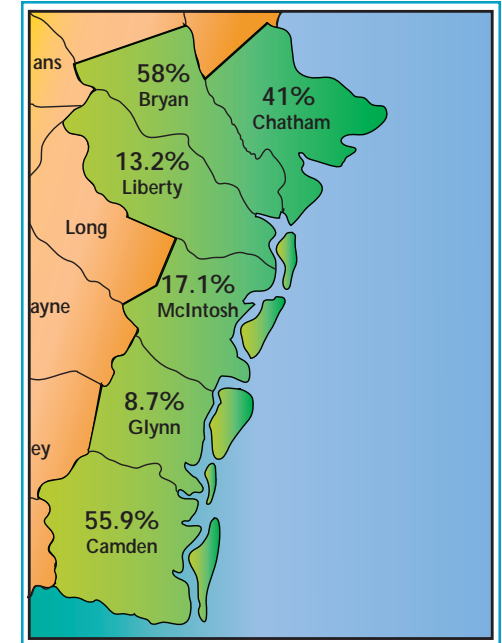


ADAPTED FROM SCHUELER, ET. AL. 1992

The NELO Program encourages the reduction of impervious surfaces and if possible replacement with porous materials, which improve the absorption of storm runoff.

A successful NELO program helps reduce the transport of non-point source pollutants into our waterways.

COASTAL COUNTY % POPULATION CHANGE DUE TO MIGRATION 1990-1999



THE GEORGIA COUNTY GUIDE NINETEENTH EDITION, 2000

Georgia's NELO Program began in the coastal counties, an area experiencing some of the state's most rapid growth. The sprawl generated by the rapid population growth points to the need to educate county and municipal officials about the relationship between individual zoning and other land-use decisions and water quality. NELO provides simple and effective land-use alternatives that help maintain acceptable water quality.