"Reducing Runoff" is the most topically direct follow up to "Linking Land Use to Water Quality" (Basic NEMO). There is a good deal of overlap, but the major differences is that less time is spent on planning and zoning recommendations, with most of the show being devoted to site design considerations – what is now known as "low impact development." There are quite a lot of slides (about 100), but it goes quickly because many of the slides are pictures of "green" BMPs like pervious alternative pavements, swales, green roofs, etc. This presentation has been perhaps the most requested NEMO module over the last 2-3 years. It is continually evolving, but mostly this takes the form of additional good photos and local examples.

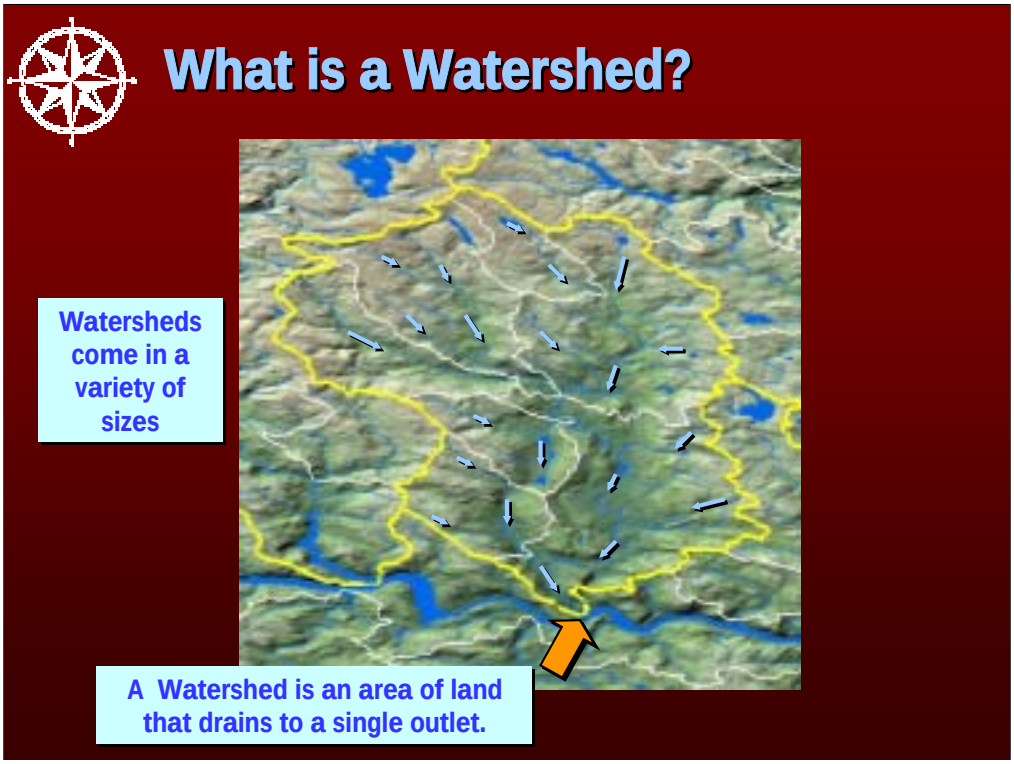
REDUCING RUNOFF

Tonight's Agenda

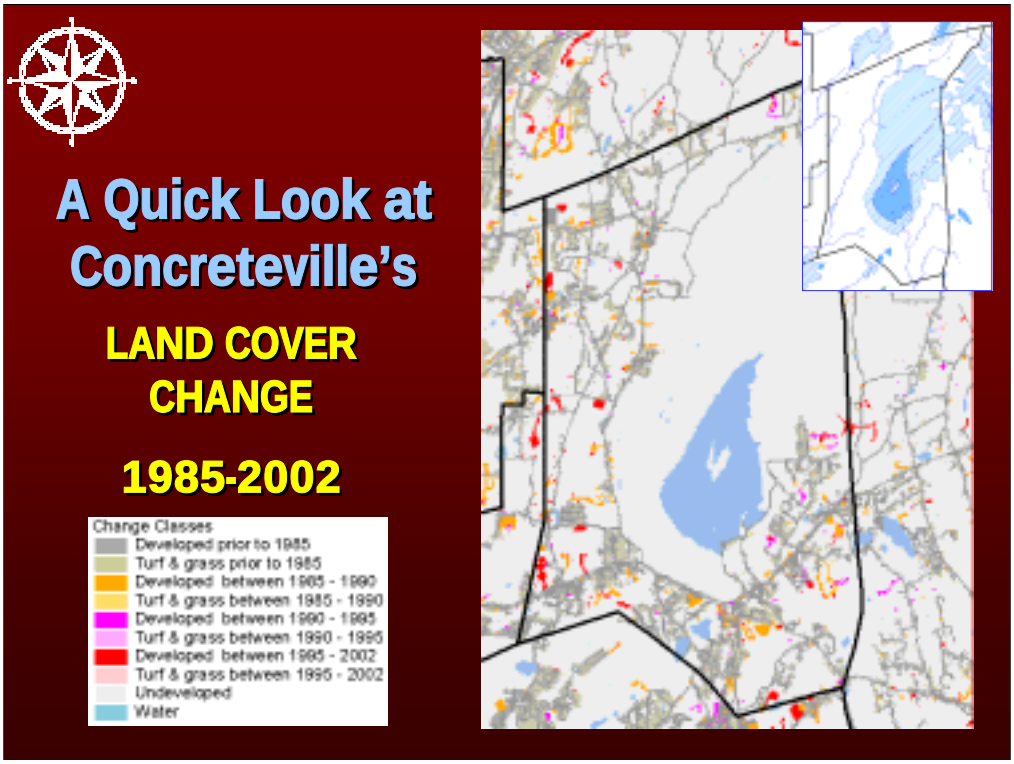
- **land use impacts on water quality**
- **a quick look at North Branford**
- **reducing the impacts of impervious surfaces on North Branford's waterways through:**

  - Planning
  - Zoning
  - Site Design

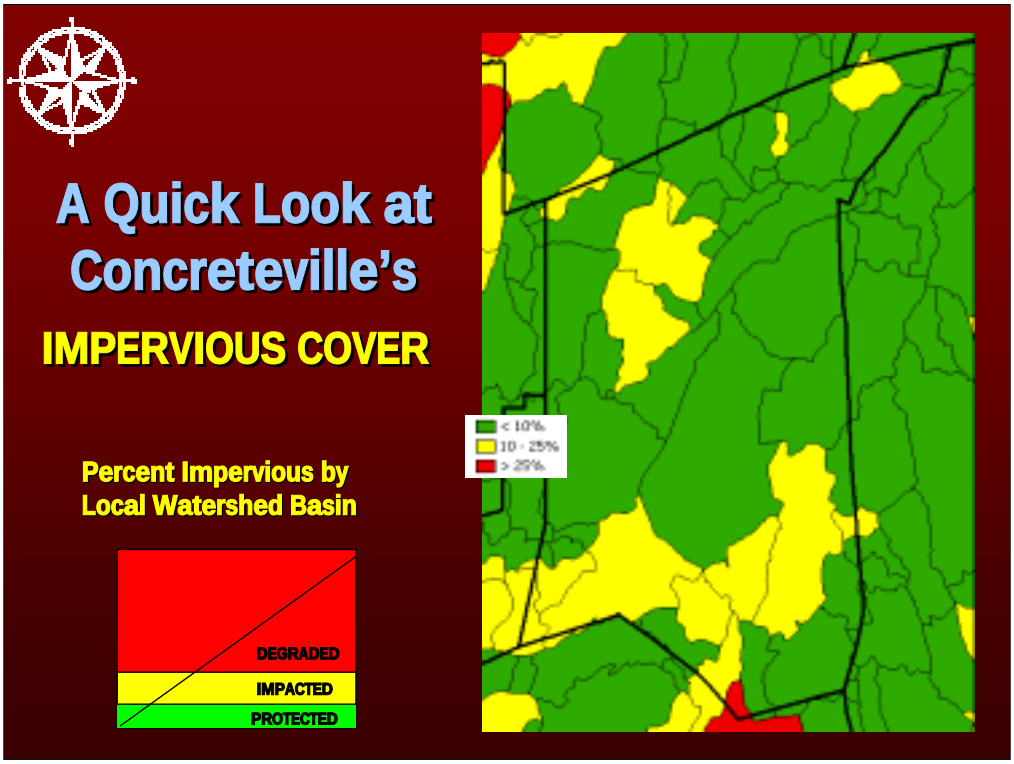
Main chapters of the talk, which is about 100 slides (1 hour) long.



Watershed, defined. GIS layers show watersheds of different orders and how they're "nested."



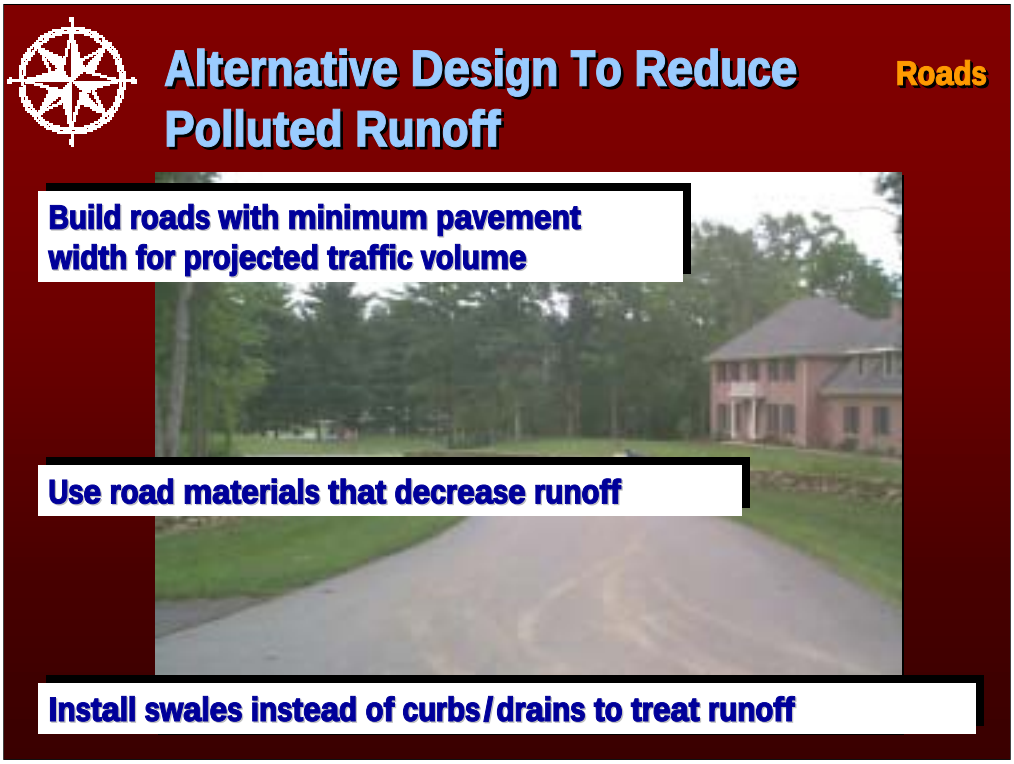
There is a short section in this talk that goes over some basic data layers for the town in question. This slide show the results of CLEAR's 1985-2002 study of land cover change. Note the effect of water company land (inset) in preventing development in the northeast section of town.



Latest % impervious cover (from CLEAR 2000 subpixel analysis) by local watershed. This leads into the true heart of the Reducing Runoff show.

This abstract skips the brief planning and zoning sections. Most of the show focuses on site design – what is now known as "low impact development."

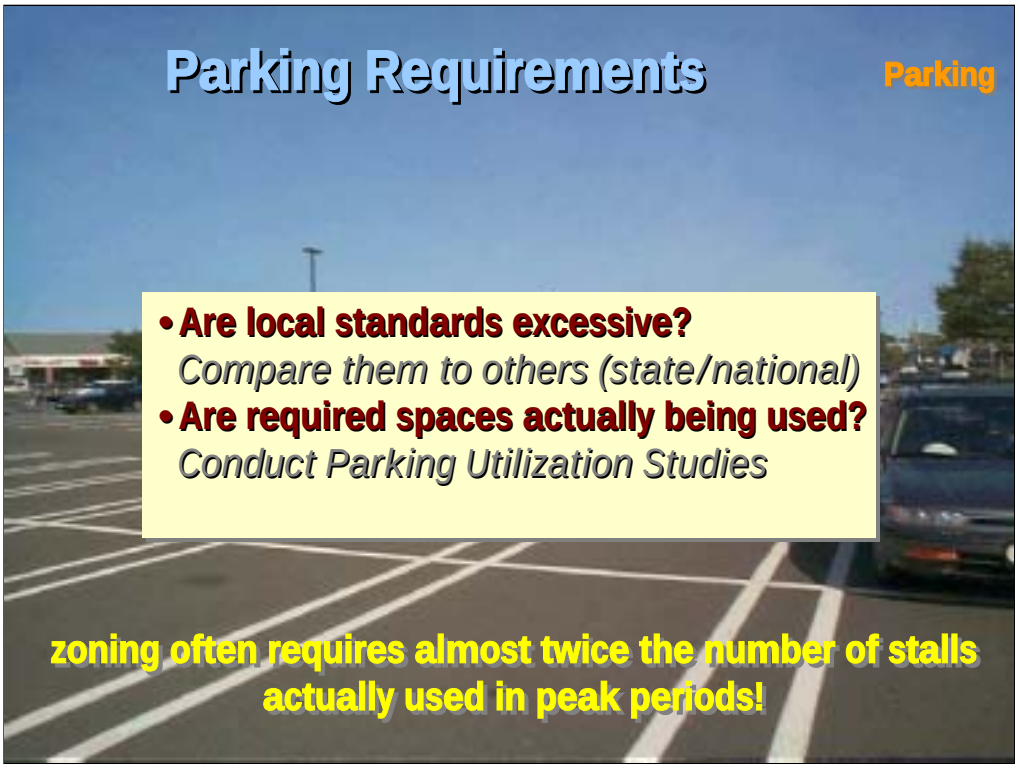
Reminds viewer that the design goal relates strongly to the watershed/water cycle information given in the intro section.



The presentation goes over each major portion of the impervious surface budget. Roads, for instance, are the largest component of %IS in residential areas. For each section, we try to cover reducing runoff through three strategies: (a) reducing the IS footprint; (b) reducing runoff by using pervious alternatives to pavement; (c) treating runoff with vegetated, infiltration-oriented systems.

Lots of pictures in this presentation. Here's one from the Roads section showing pervious concrete pavers.

Parking section: reduce footprint through parking utilization studies leading to fewer stalls built.



Parking section: reduce footprint through parking utilization studies leading to fewer stalls built.

Photo of pervious asphalt.

Porous Concrete

Sidewalks

Porous concrete sidewalk at Penn State University Visitor's Center

From: Cahill Associates

Photo of pervious concrete, from Sidewalks and Driveways portion of talk.

Photo of rain garden, from Roofs portion of talk.

An extensive green roof from Roofs section.

Contact information.