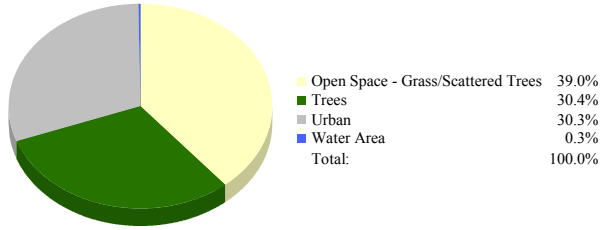
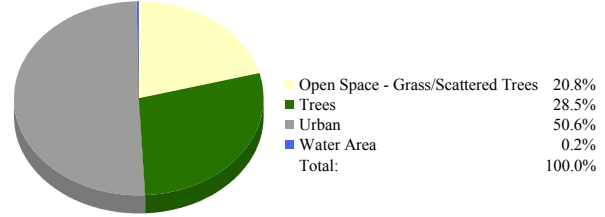


Newton, NC 1984 Landcover



Newton, NC 2003 Landcover



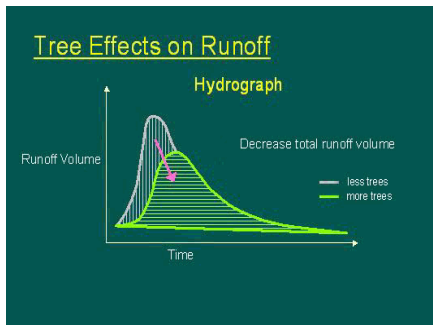
Air Quality Results

Pounds Removed per Year

Pollutant	1984	2003
Carbon Monoxide:	9,036	8,455
Nitrogen Dioxide:	15,814	14,796
Ozone:	92,622	86,662
Particulate Matter:	67,772	63,411
Sulfur Dioxide:	29,368	27,478
Total:	214,612	200,803

Stormwater Results

Storm Event Hydrograph



Stormwater Volume Change

2-yr, 24-hr Rainfall: 3.25 in.

*Curve Number reflecting conditions in 1984: 75

*Curve Number reflecting conditions in 2003: 79

Additional Storage volume of stormwater generated due to change in landcover from 1984 to 2003: 7,447,964 cu. ft.

Construction cost of retention facilities per cu. ft. of stormwater: \$2.00

Cost of the construction of retention facilities to store excess volume of stormwater: **\$14,895,927**

Benefits Summary

Landcover Change (acres)

Landcover	1984	2003	Change
Trees:	2,534	2,371	-6.4%
Open Space:	3,246	1,729	-42.7%
Urban:	2,523	4,209	66.8%
Water:	21.3	16	-28.6%
Total Acres:	8,326		

Air Pollution Benefits

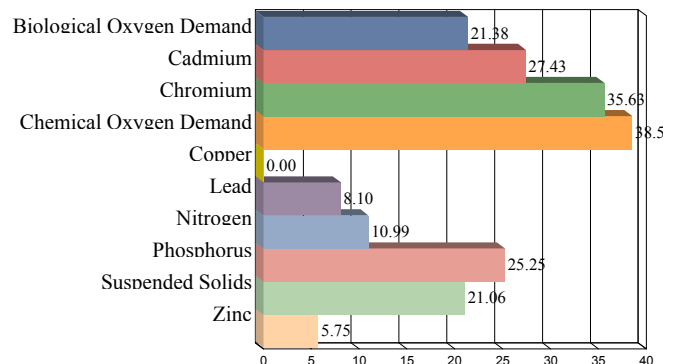
Pollutants Removed (lbs):	214,612	200,803	-13,809
\$ Amount:	\$498,046	\$466,000	-\$32,047
Carbon Stored (tons):	109,054	102,036	-7,017
Carbon Sequestered (lbs):	849	794	-55

Stormwater Benefits

Additional Storage Volume Needed:		22,752,896	7,447,964
Cost of Retaining Additional Volume of Runoff:		\$45,505,793	\$14,895,927

Water Quality (Contaminant Loading)

Percent Change in Contaminant Loadings from 1984 to 2003 due to land cover change



*The stormwater calculations are based on curve number which is an index developed by the NRCS, to represent the potential for storm water runoff within a drainage area. Curve numbers range from 30 to 100. The higher the curve number the more runoff will occur. The change in curve number reflects the increase in the volume of stormwater runoff.