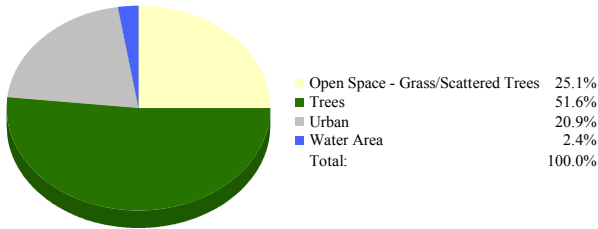
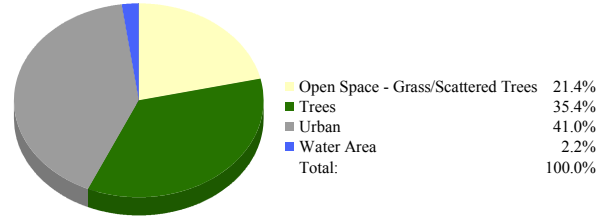


Belmont, NC 1984 Landcover



Belmont, NC 2003 Landcover



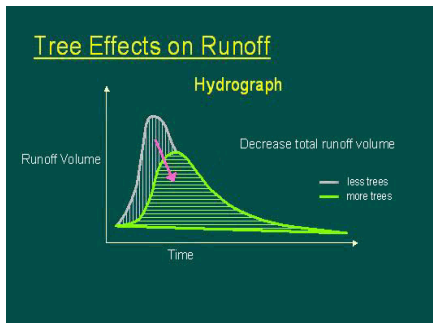
Air Quality Results

Pounds Removed per Year

Pollutant	1984	2003
Carbon Monoxide:	9,696	6,657
Nitrogen Dioxide:	16,969	11,649
Ozone:	99,389	68,232
Particulate Matter:	72,723	49,926
Sulfur Dioxide:	31,513	21,635
Total:	230,290	158,099

Stormwater Results

Storm Event Hydrograph



Stormwater Volume Change

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

*Curve Number reflecting conditions in 1984: 73

*Curve Number reflecting conditions in 2003: 78

Additional Storage volume of stormwater generated due to change in landcover from 1984 to 2003: 5,651,737 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: **\$11,303,474**

Benefits Summary

Landcover Change (acres)

Landcover	1984	2003	Change
Trees:	2,719	1,867	-31.3%
Grass, Crops w/ veg. & fallow:	1,326	1,128	-14.9%
Urban:	1,102	2,162	96.2
Water:	127	117	-7.9%
Total Acres:	5,274		

Air Pollution Benefits

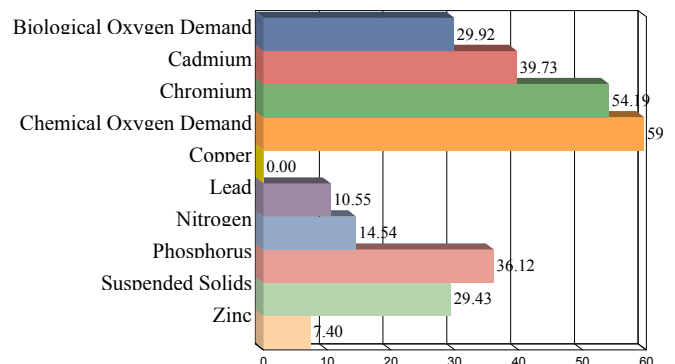
Pollutants Removed (lbs):	230,290	158,099	-72,191
\$ Amount:	\$534,431	\$366,897	-\$167,533
Carbon Stored (tons):	117,020	80,337	-36,684
Carbon Sequestered (lbs):	911	625	-286

Stormwater Benefits

Additional Storage Volume Needed:		15,643,714	5,651,737
Cost of Retaining Additional Volume of Runoff:		\$31,287,427	\$11,303,474

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.