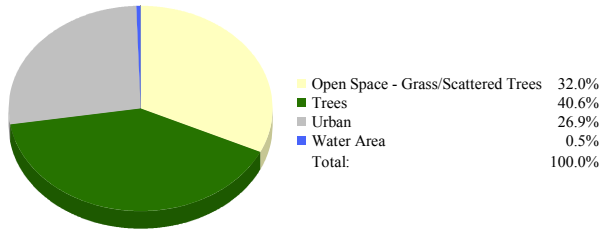
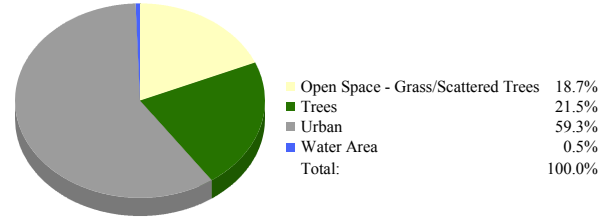


Charlotte, NC 1984 Landcover



Charlotte, NC 2003 Landcover



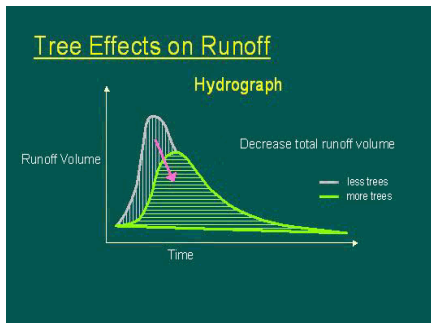
Air Quality Results

Pounds Removed per Year

Pollutant	1984	2003
Carbon Monoxide:	224,467	118,784
Nitrogen Dioxide:	392,817	207,872
Ozone:	2,300,786	1,217,537
Particulate Matter:	1,683,502	890,881
Sulfur Dioxide:	729,518	386,048
Total:	5,331,090	2,821,123

Stormwater Results

Storm Event Hydrograph



Stormwater Volume Change

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

*Curve Number reflecting conditions in 1984: 77

*Curve Number reflecting conditions in 2003: 84

Additional Storage volume of stormwater generated due to change in landcover from 1984 to 2003: 268,582,592 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: **\$537,165,184**

Benefits Summary

Landcover Change (acres)

Landcover	1984	2003	Change
Trees:	62,953	33,314	-47.1%
Grass, Crops w/ veg. & fallow:	49,738	29,002	-41.7%
Urban:	41,823	92,110	120.2%
Water:	718	813	13.1%
Total Acres:	155,232		

Air Pollution Benefits

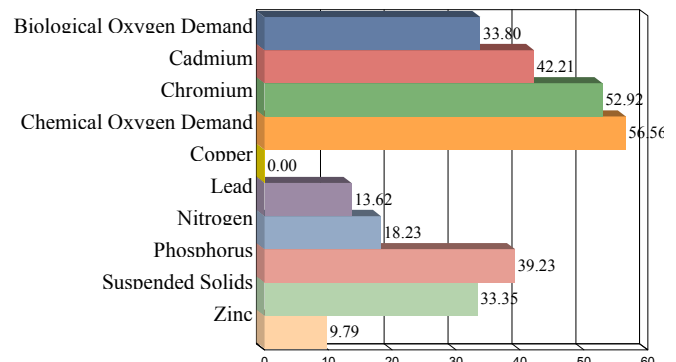
Pollutants Removed (lbs):	5,331,090	2,821,123	-2,509,967
\$ Amount:	\$12,371,759	\$6,546,927	-\$5,824,832
Carbon Stored (tons):	2,708,952	1,433,532	-1,275,420
Carbon Sequestered (lbs):	21,090	11,160	-9,929

Stormwater Benefits

Additional Storage Volume Needed:		276,494,557	268,582,592
Cost of Retaining Additional Volume of Runoff:		\$552,989,113	\$537,165,184

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.