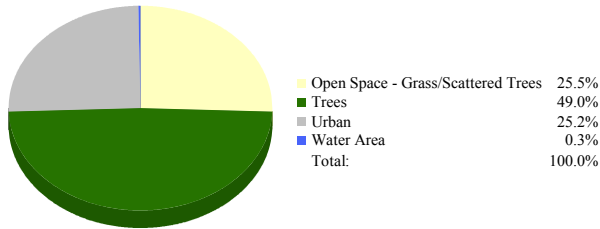
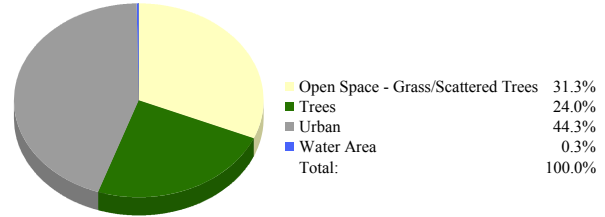


Rock Hill, SC 1984 Landcover



Rock Hill, SC 2003 Landcover



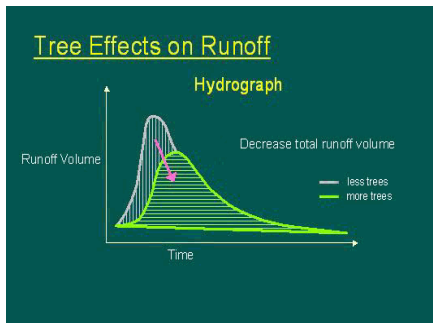
Air Quality Results

Pounds Removed per Year

Pollutant	1984	2003
Carbon Monoxide:	35,194	17,267
Nitrogen Dioxide:	61,590	30,217
Ozone:	360,742	176,983
Particulate Matter:	263,958	129,500
Sulfur Dioxide:	114,382	56,117
Total:	835,866	410,083

Stormwater Results

Storm Event Hydrograph



Stormwater Volume Change

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

*Curve Number reflecting conditions in 1984: 78

*Curve Number reflecting conditions in 2003: 83

Additional Storage volume of stormwater generated due to change in landcover from 1984 to 2003: 24,892,686 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: **\$49,785,372**

Benefits Summary

Landcover Change (acres)

Landcover	1984	2003	Change
Trees:	9,870	4,843	-50.9%
Open Space:	5,141	6,317	22.9%
Urban:	5,085	8,934	75.7%
Water:	60.5	64	6.3%
Total Acres:	20,157		

Air Pollution Benefits

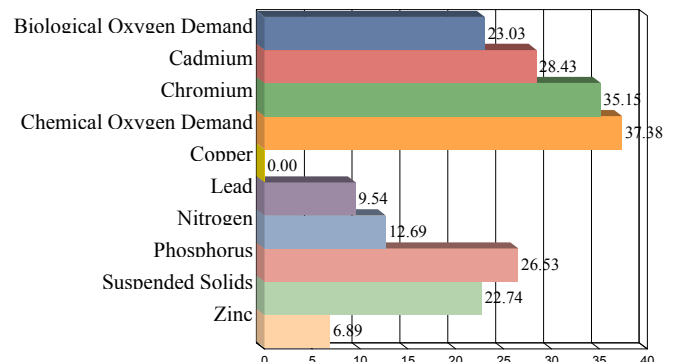
Pollutants Removed (lbs):	835,866	410,083	-425,783
\$ Amount:	\$1,939,779	\$951,671	-\$988,107
Carbon Stored (tons):	424,739	208,380	-216,359
Carbon Sequestered (lbs):	3,307	1,622	-1,684

Stormwater Benefits

Additional Storage Volume Needed:		34,897,153	24,892,686
Cost of Retaining Additional Volume of Runoff:		\$69,794,305	\$49,785,372

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.