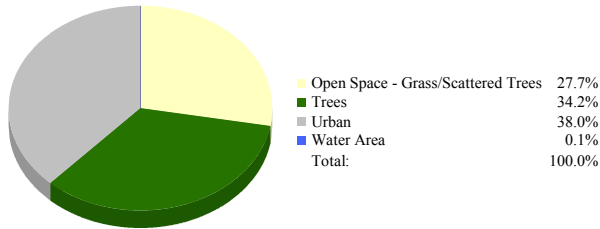
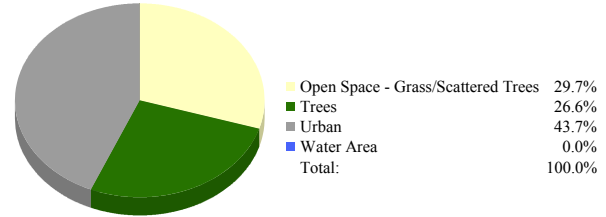


Chester, SC 1984 Landcover



Chester, SC 2003 Landcover



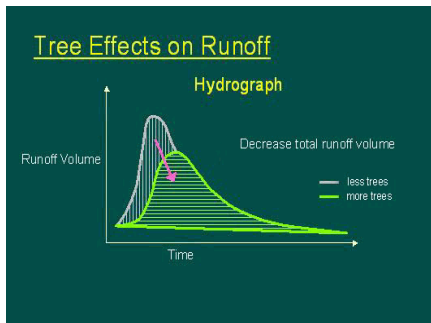
Air Quality Results

Pounds Removed per Year

Pollutant	1984	2003
Carbon Monoxide:	2,416	1,881
Nitrogen Dioxide:	4,228	3,291
Ozone:	24,763	19,276
Particulate Matter:	18,120	14,104
Sulfur Dioxide:	7,852	6,112
Total:	57,379	44,663

Stormwater Results

Storm Event Hydrograph



Stormwater Volume Change

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

*Curve Number reflecting conditions in 1984: 84

*Curve Number reflecting conditions in 2003: 85

Additional Storage volume of stormwater generated due to change in landcover from 1984 to 2003: 546,652 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: **\$1,093,305**

Benefits Summary

Landcover Change (acres)

Landcover	1984	2003	Change
Trees:	677	527	-22.2%
Open Space:	549	587	6.9%
Urban:	751	865	15.2%
Water:	1	0	-100%
Total Acres:	1,979		

Air Pollution Benefits

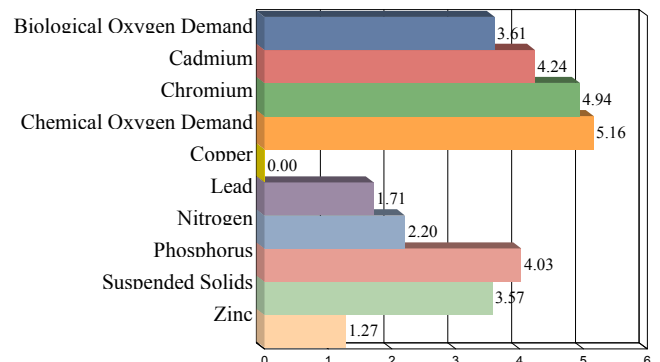
Pollutants Removed (lbs):	57,379	44,663	-12,715
\$ Amount:	\$133,158	\$103,649	-\$29,508
Carbon Stored (tons):	29,157	22,695	-6,461
Carbon Sequestered (lbs):	227	177	-50

Stormwater Benefits

Additional Storage Volume Needed:		3,626,979	546,652
Cost of Retaining Additional Volume of Runoff:		\$7,253,958	\$1,093,305

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.