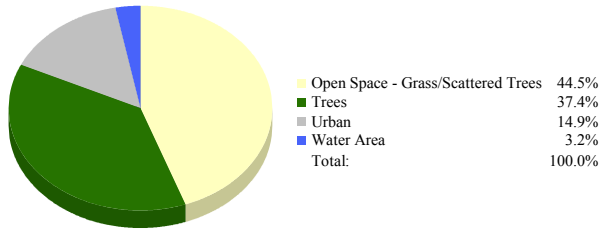
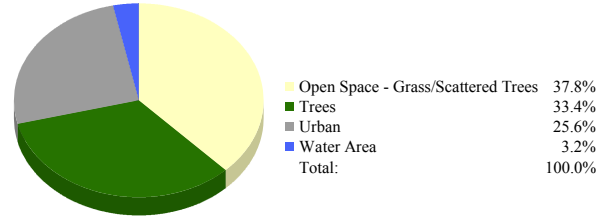


Catawba County, NC 1984 Landcover



Catawba County, NC 2003 Landcover



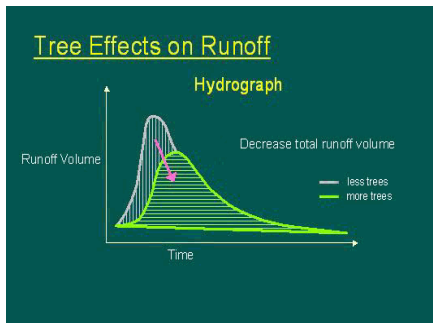
Air Quality Results

Pounds Removed per Year

Pollutant	1984	2003
Carbon Monoxide:	352,784	314,714
Nitrogen Dioxide:	617,372	550,749
Ozone:	3,616,037	3,225,815
Particulate Matter:	2,645,881	2,360,352
Sulfur Dioxide:	1,146,548	1,022,819
Total:	8,378,623	7,474,449

Stormwater Results

Storm Event Hydrograph



Stormwater Volume Change

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

*Curve Number reflecting conditions in 1984: 72

*Curve Number reflecting conditions in 2003: 75

Additional Storage volume of stormwater generated due to change in landcover from 1984 to 2003: 160,385,393 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: **\$320,770,787**

Benefits Summary

Landcover Change (acres)

Landcover	1984	2003	Change
Trees:	98,940	88,263	-10.8%
Open Space:	117,628	99,931	-15.0%
Urban:	39,476	67,737	71.6%
Water:	8,346	8,458	1.3%
Total Acres:	264,390		

Air Pollution Benefits

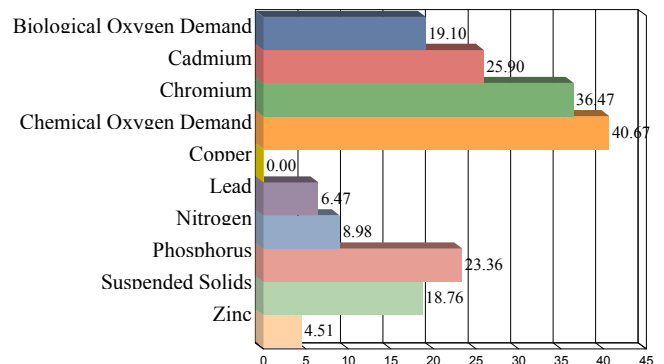
Pollutants Removed (lbs):	8,378,623	7,474,449	-904,174
\$ Amount:	\$19,444,110	\$17,345,811	-\$2,098,299
Carbon Stored (tons):	4,257,533	3,798,084	-459,449
Carbon Sequestered (lbs):	33,146	29,569	-3,577

Stormwater Benefits

Additional Storage Volume Needed:		720,483,570	160,385,393
Cost of Retaining Additional Volume of Runoff:		\$1,440,967,140	\$320,770,787

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.