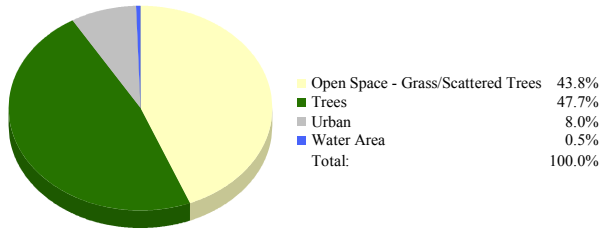
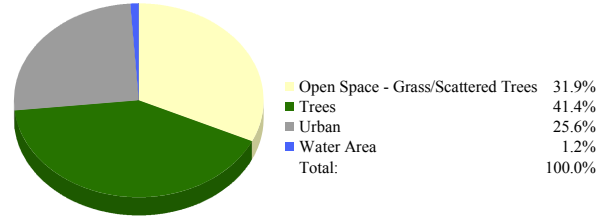


Cabarrus County 1984 Landcover



Cabarrus County 2003 Landcover



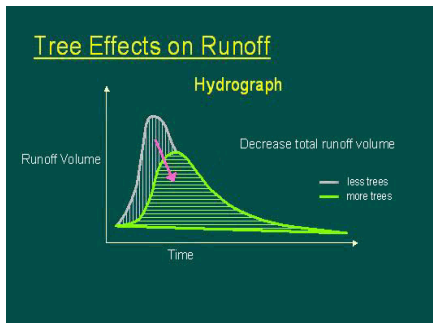
Air Quality Results

Pounds Removed per Year

Pollutant	1984	2003
Carbon Monoxide:	396,846	344,176
Nitrogen Dioxide:	694,480	602,308
Ozone:	4,067,670	3,527,806
Particulate Matter:	2,976,344	2,581,322
Sulfur Dioxide:	1,289,749	1,118,573
Total:	9,425,088	8,174,185

Stormwater Results

Storm Event Hydrograph



Stormwater Volume Change

2-yr, 24-hr Rainfall: 3.75 in.

*Curve Number reflecting conditions in 1984: 76

*Curve Number reflecting conditions in 2003: 79

Additional Storage volume of stormwater generated due to change in landcover from 1984 to 2003: 180,572,729 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: **\$361,145,458**

Benefits Summary

Landcover Change (acres)

Landcover	1984	2003	Change
Trees:	111,297	96,526	-13.3%
Grass, Crops w/ veg. & fallow:	102,237	74,393	-27.2%
Urban:	18,781	59,731	218.0%
Water:	1,062	2,727	156.8%
Total Acres:	233,376		

Air Pollution Benefits

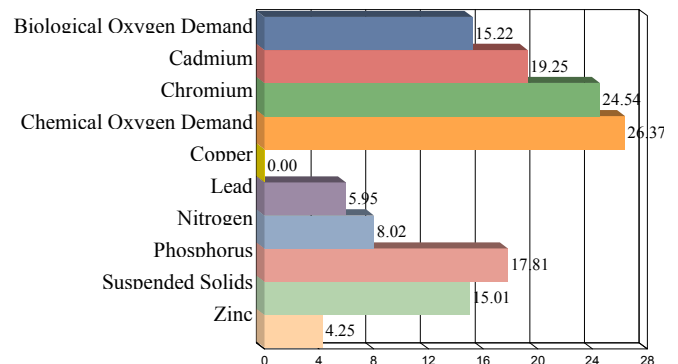
Pollutants Removed (lbs):	9,425,088	8,174,185	-1,250,903
\$ Amount:	\$21,872,620	\$18,969,674	-\$2,902,947
Carbon Stored (tons):	4,789,286	4,153,649	-635,637
Carbon Sequestered (lbs):	37,286	32,337	-4,949

Stormwater Benefits

Additional Storage Volume Needed:		779,591,464	803,404,255
Cost of Retaining Additional Volume of Runoff:		\$1,559,182,928	\$1,606,808,509

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.