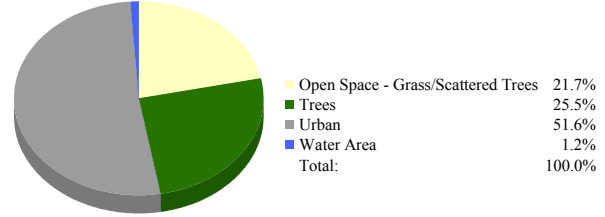
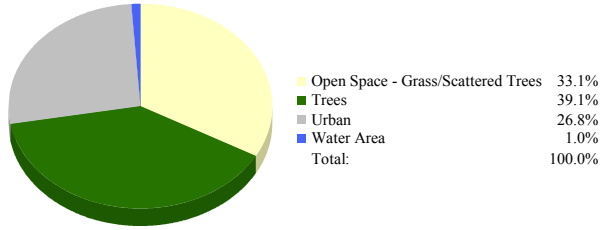


Concord, Kannapolis, & Harrisburg 1984 Landcover Concord, Kannapolis, & Harrisburg 2003 Landcover



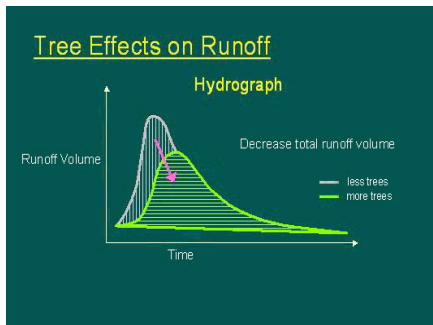
Air Quality Results

Pounds Removed per Year

Pollutant	1984	2003
Carbon Monoxide:	78,648	51,400
Nitrogen Dioxide:	137,634	89,950
Ozone:	806,141	526,848
Particulate Matter:	589,859	385,499
Sulfur Dioxide:	255,606	167,049
Total:	1,867,887	1,220,746

Stormwater Results

Storm Event Hydrograph



Stormwater Volume Change

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

*Curve Number reflecting conditions in 1984: 82
*Curve Number reflecting conditions in 2003: 86

Additional Storage volume of stormwater generated due to change in landcover from 1984 to 2003: 67,604,162 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: **\$135,208,324**

Benefits Summary

Landcover Change (acres)

Landcover	1984	2003	Change
Trees:	22,057	14,415	-34.3%
Open Space:	18,670	12,261	-34.3%
Urban:	15,135	29,091	92.2%
Water:	564	660	17.0%
Total Acres:	56,426		

Air Pollution Benefits

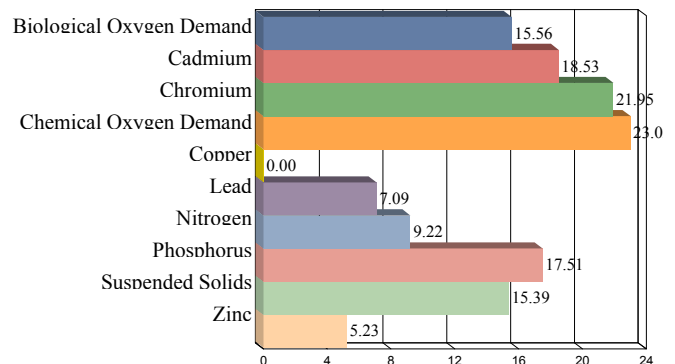
Pollutants Removed (lbs):	1,867,887	1,220,746	-647,141
\$ Amount:	\$4,334,769	\$2,832,962	-\$1,501,807
Carbon Stored (tons):	949,152	620,313	-328,840
Carbon Sequestered (lbs):	7,389	4,829	-2,560

Stormwater Benefits

Additional Storage Volume Needed:		113,798,511	67,604,162
Cost of Retaining Additional Volume of Runoff:		\$227,597,023	\$135,208,324

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.