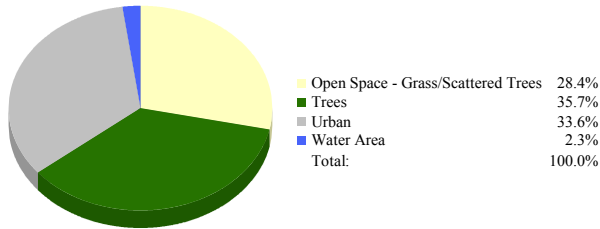
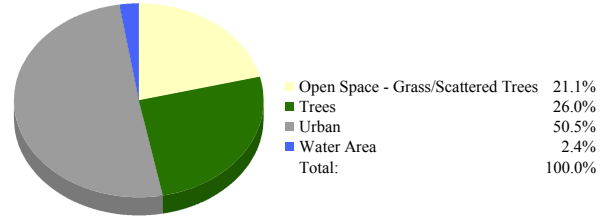


Kannapolis, NC 1984 Landcover



Kannapolis, NC 2003 Landcover



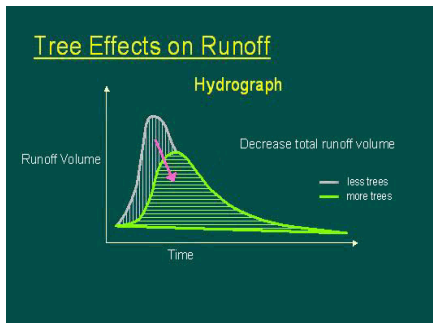
Air Quality Results

Pounds Removed per Year

Pollutant	1984	2003
Carbon Monoxide:	24,723	17,959
Nitrogen Dioxide:	43,265	31,429
Ozone:	253,408	184,084
Particulate Matter:	185,420	134,695
Sulfur Dioxide:	80,349	58,368
Total:	587,164	426,535

Stormwater Results

Storm Event Hydrograph



Stormwater Volume Change

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

*Curve Number reflecting conditions in 1984: 83

*Curve Number reflecting conditions in 2003: 86

Additional Storage volume of stormwater generated due to change in landcover from 1984 to 2003: 16,083,957 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: **\$32,167,913**

Benefits Summary

Landcover Change (acres)

Landcover	1984	2003	Change
Trees:	6,934	5,037	-27.3%
Open Space:	5,504	4,099	-25.5%
Urban:	6,522	9,808	50.4%
Water:	445	460	3.4%
Total Acres:	19,405		

Air Pollution Benefits

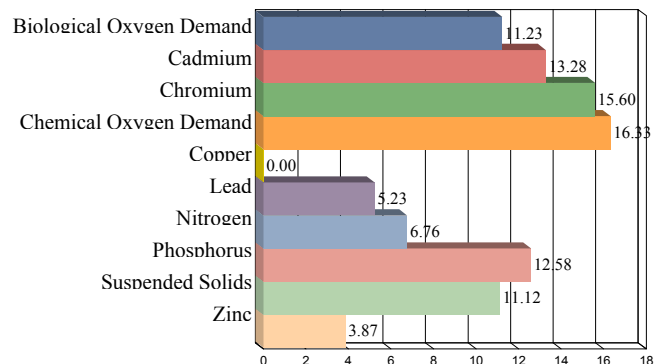
Pollutants Removed (lbs):	587,164	426,535	-160,629
\$ Amount:	\$1,362,620	\$989,852	-\$372,768
Carbon Stored (tons):	298,363	216,741	-81,622
Carbon Sequestered (lbs):	2,323	1,687	-635

Stormwater Benefits

Additional Storage Volume Needed:		36,594,552	16,083,957
Cost of Retaining Additional Volume of Runoff:		\$73,189,104	\$32,167,913

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.