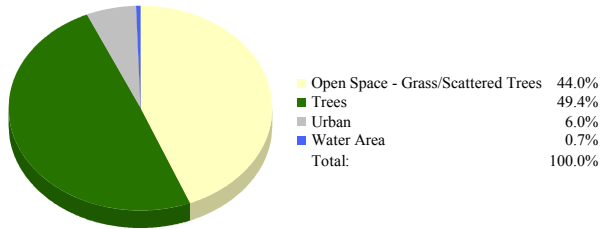
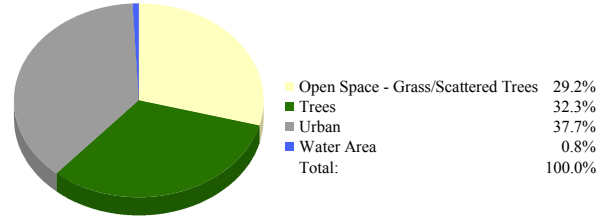


Huntersville, NC 1984 Landcover



Huntersville, NC 2003 Landcover



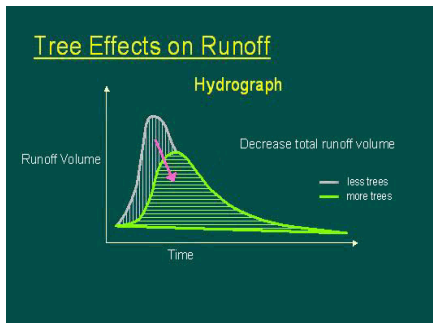
Air Quality Results

Pounds Removed per Year

Pollutant	1984	2003
Carbon Monoxide:	35,278	23,100
Nitrogen Dioxide:	61,736	40,425
Ozone:	361,598	236,777
Particulate Matter:	264,584	173,252
Sulfur Dioxide:	114,653	75,076
Total:	837,849	548,631

Stormwater Results

Storm Event Hydrograph



Stormwater Volume Change

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

*Curve Number reflecting conditions in 1984: 73

*Curve Number reflecting conditions in 2003: 80

Additional Storage volume of stormwater generated due to change in landcover from 1984 to 2003: 30,955,145 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: **\$61,910,290**

Benefits Summary

Landcover Change (acres)

Landcover	1984	2003	Change
Trees:	9,894	6,479	-34.5%
Open Space:	8,811	5,843	-33.7%
Urban:	1,197	7,548	530.6%
Water:	137	169	23.3%
Total Acres:	20,038		

Air Pollution Benefits

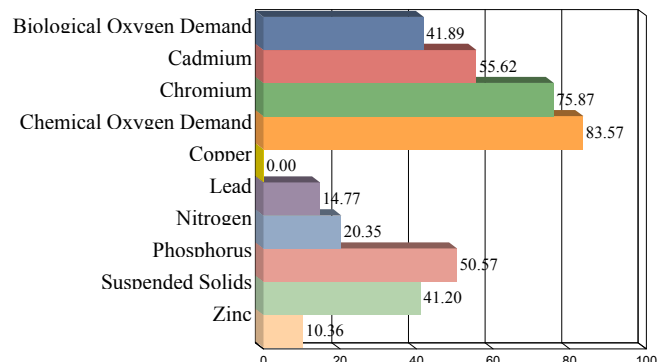
Pollutants Removed (lbs):	837,849	548,631	-289,218
\$ Amount:	\$1,944,380	\$1,273,196	-\$671,183
Carbon Stored (tons):	425,746	278,782	-146,964
Carbon Sequestered (lbs):	3,315	2,170	-1,144

Stormwater Benefits

Additional Storage Volume Needed:		49,954,150	30,955,145
Cost of Retaining Additional Volume of Runoff:		\$99,908,300	\$61,910,290

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.