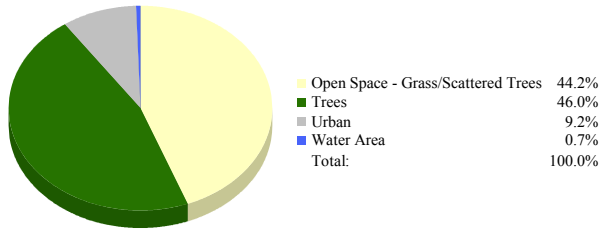
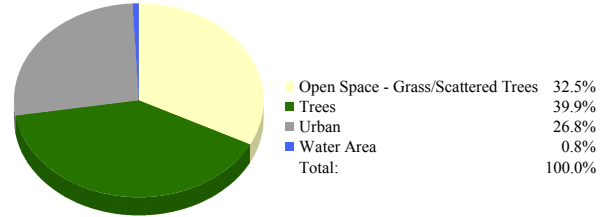


Mint Hill, NC 1984 Landcover



Mint Hill, NC 2003 Landcover



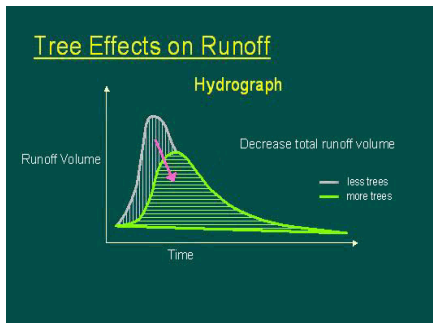
Air Quality Results

Pounds Removed per Year

Pollutant	1984	2003
Carbon Monoxide:	22,356	19,388
Nitrogen Dioxide:	39,122	33,929
Ozone:	229,146	198,727
Particulate Matter:	167,668	145,410
Sulfur Dioxide:	72,656	63,011
Total:	530,947	460,466

Stormwater Results

Storm Event Hydrograph



Stormwater Volume Change

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

*Curve Number reflecting conditions in 1984: 69

*Curve Number reflecting conditions in 2003: 74

Additional Storage volume of stormwater generated due to change in landcover from 1984 to 2003: 13,006,667 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: **\$26,013,334**

Benefits Summary

Landcover Change (acres)

Landcover	1984	2003	Change
Trees:	6,270	5,437	-13.3%
Open Space:	6,027	4,438	-26.4%
Urban:	1,252	3,653	191.8%
Water:	90	110	22.2%
Total Acres:	13,638		

Air Pollution Benefits

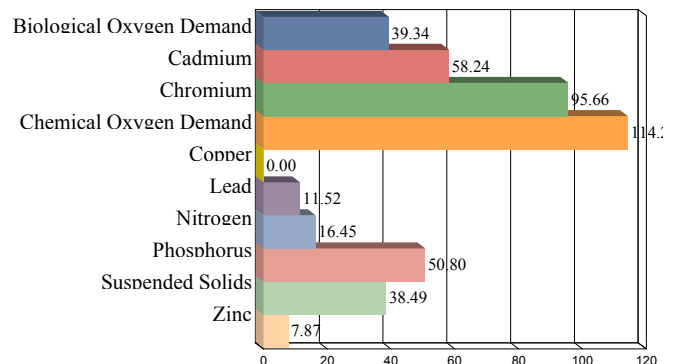
Pollutants Removed (lbs):	530,947	460,466	-70,482
\$ Amount:	\$1,232,160	\$1,068,594	-\$163,565
Carbon Stored (tons):	269,797	233,982	-35,815
Carbon Sequestered (lbs):	2,100	1,822	-279

Stormwater Benefits

Additional Storage Volume Needed:		43,990,663	13,006,667
Cost of Retaining Additional Volume of Runoff:		\$87,981,327	\$26,013,334

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.