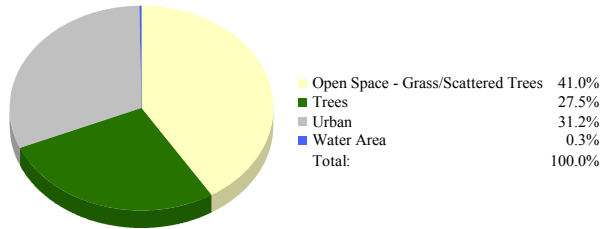
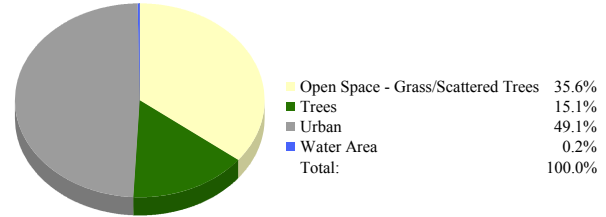


Statesville, NC 1984 Landcover



Statesville, NC 2003 Landcover



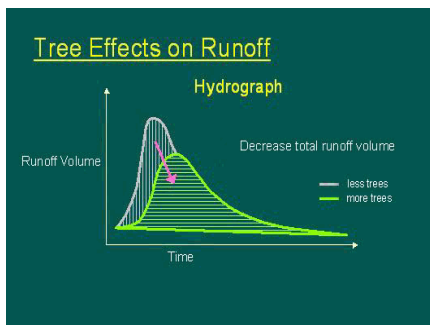
Air Quality Results

Pounds Removed per Year

Pollutant	1984	2003
Carbon Monoxide:	12,830	7,046
Nitrogen Dioxide:	22,453	12,331
Ozone:	131,508	72,225
Particulate Matter:	96,225	52,848
Sulfur Dioxide:	41,698	22,901
Total:	304,714	167,351

Stormwater Results

Storm Event Hydrograph



Stormwater Volume Change

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

*Curve Number reflecting conditions in 1984: 75

*Curve Number reflecting conditions in 2003: 80

Additional Storage volume of stormwater generated due to change in landcover from 1984 to 2003: 14,829,664 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: **\$29,659,329**

Benefits Summary

Landcover Change (acres)

Landcover	1984	2003	Change
Trees:	3,598	1,976	-45.1%
Open Space:	5,363	4,658	-13.1%
Urban:	4,073	6,415	57.5%
Water:	36	22	-38.8%
Total Acres:	13,071		

Air Pollution Benefits

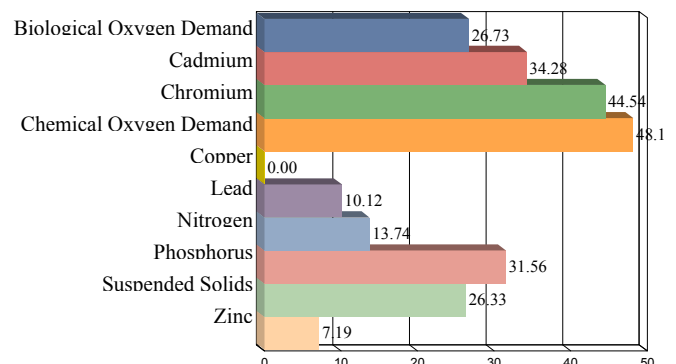
Pollutants Removed (lbs):	304,714	167,351	-137,363
\$ Amount:	\$707,143	\$388,368	-\$318,775
Carbon Stored (tons):	154,838	85,038	-69,800
Carbon Sequestered (lbs):	1,205	662	-543

Stormwater Benefits

Additional Storage Volume Needed:		17,076,937	14,829,664
Cost of Retaining Additional Volume of Runoff:		\$34,153,874	\$29,659,329

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.