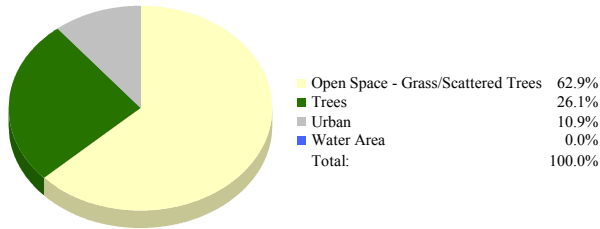
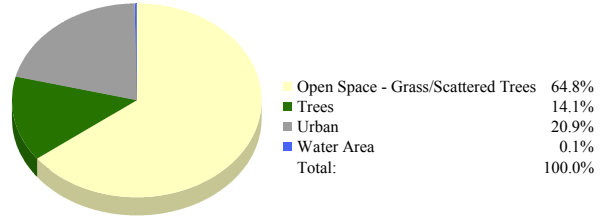


Boiling Springs, NC 1984 Landcover



Boiling Springs, NC 2003 Landcover



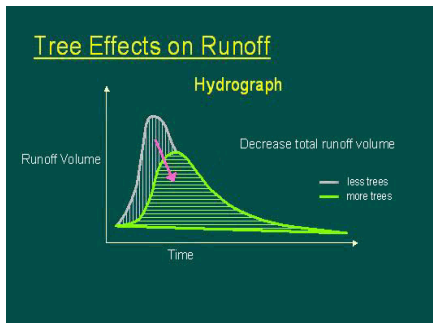
Air Quality Results

Pounds Removed per Year

Pollutant	1984	2003
Carbon Monoxide:	2,559	1,381
Nitrogen Dioxide:	4,478	2,416
Ozone:	26,229	14,152
Particulate Matter:	19,192	10,355
Sulfur Dioxide:	8,316	4,487
Total:	60,774	32,791

Stormwater Results

Storm Event Hydrograph



Stormwater Volume Change

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

*Curve Number reflecting conditions in 1984: 70

*Curve Number reflecting conditions in 2003: 73

Additional Storage volume of stormwater generated due to change in landcover from 1984 to 2003: 1,843,736 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: **\$3,687,473**

Benefits Summary

Landcover Change (acres)

Landcover	1984	2003	Change
Trees:	718	387	-46.1%
Open Space:	1,729	1,780	2.9%
Urban:	300	575	91.7%
Water:	1	4	300%
Total Acres:	2,747		

Air Pollution Benefits

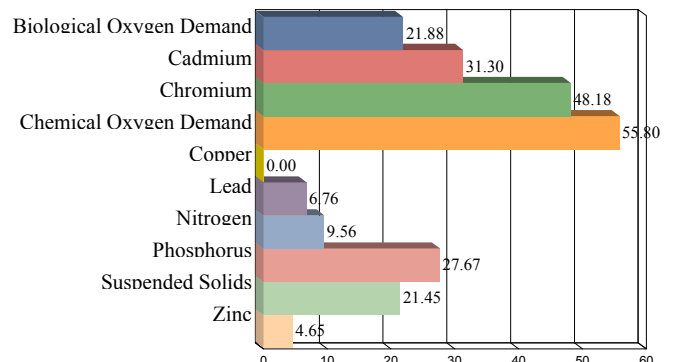
Pollutants Removed (lbs):	60,774	32,791	-27,983
\$ Amount:	\$141,037	\$76,098	-\$64,940
Carbon Stored (tons):	30,882	16,663	-14,219
Carbon Sequestered (lbs):	240	130	-111

Stormwater Benefits

Additional Storage Volume Needed:		3,381,327	1,843,736
Cost of Retaining Additional Volume of Runoff:		\$6,762,654	\$3,687,473

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.