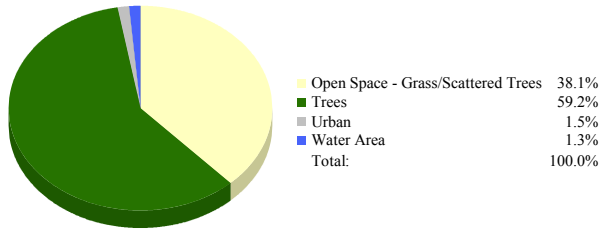
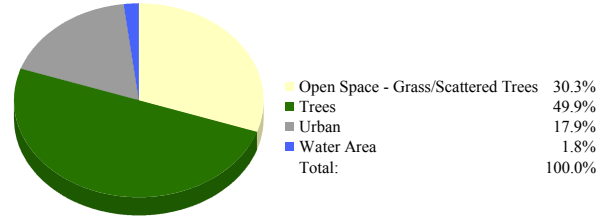


Weddington, NC 1984 Landcover



Weddington, NC 2003 Landcover



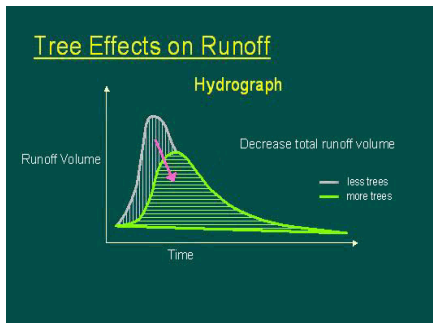
Air Quality Results

Pounds Removed per Year

Pollutant	1984	2003
Carbon Monoxide:	21,383	18,041
Nitrogen Dioxide:	37,420	31,572
Ozone:	219,173	184,920
Particulate Matter:	160,371	135,307
Sulfur Dioxide:	69,494	58,633
Total:	507,841	428,472

Stormwater Results

Storm Event Hydrograph



Stormwater Volume Change

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

*Curve Number reflecting conditions in 1984: 68

*Curve Number reflecting conditions in 2003: 72

Additional Storage volume of stormwater generated due to change in landcover from 1984 to 2003: 7,391,594 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: **\$14,783,189**

Benefits Summary

Landcover Change (acres)

Landcover	1984	2003	Change
Trees:	5,997	5,060	-15.6%
Open Space:	3,859	3,071	-20.4%
Urban:	152	1,818	1095.4%
Water:	128	187	46.1%
Total Acres:	10,136		

Air Pollution Benefits

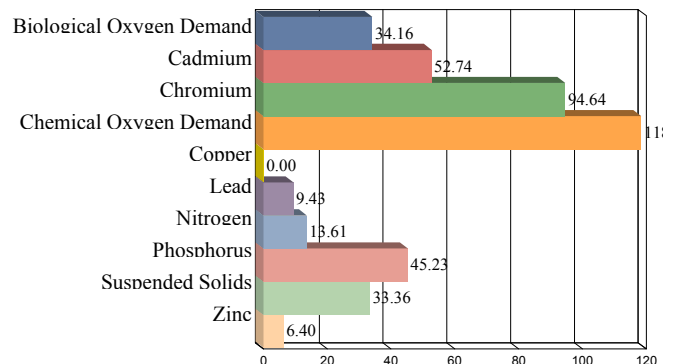
Pollutants Removed (lbs):	507,841	428,472	-79,369
\$ Amount:	\$1,178,537	\$994,347	-\$184,189
Carbon Stored (tons):	258,055	217,725	-40,331
Carbon Sequestered (lbs):	2,009	1,695	-314

Stormwater Benefits

Additional Storage Volume Needed:		42,916,890	7,391,594
Cost of Retaining Additional Volume of Runoff:		\$85,833,780	\$14,783,189

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.