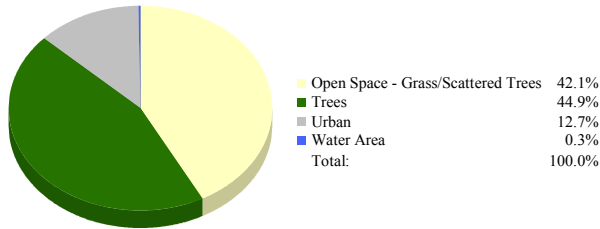
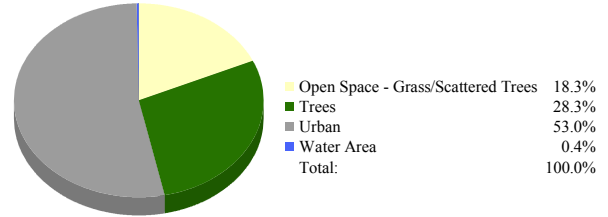


Harrisburg, NC 1984 Landcover



Harrisburg, NC 2003 Landcover



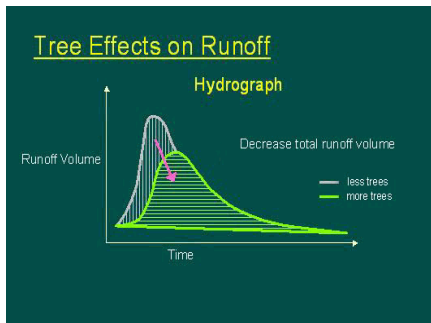
Air Quality Results

Pounds Removed per Year

Pollutant	1984	2003
Carbon Monoxide:	6,306	3,979
Nitrogen Dioxide:	11,035	6,963
Ozone:	64,633	40,781
Particulate Matter:	47,293	29,840
Sulfur Dioxide:	20,493	12,931
Total:	149,760	94,493

Stormwater Results

Storm Event Hydrograph



Stormwater Volume Change

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

*Curve Number reflecting conditions in 1984: 79

*Curve Number reflecting conditions in 2003: 86

Additional Storage volume of stormwater generated due to change in landcover from 1984 to 2003: 7,993,255 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: **\$15,986,510**

Benefits Summary

Landcover Change (acres)

Landcover	1984	2003	Change
Trees:	1,769	1,116	-36.9%
Grass, Crops w/ veg. & fallow:	1,660	721	-56.6%
Urban:	501	2,091	317.4%
Water:	14	15	7.1%
Total Acres:	3,943		

Air Pollution Benefits

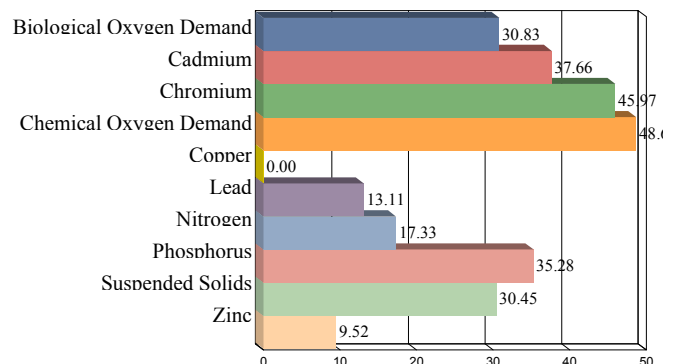
Pollutants Removed (lbs):	149,760	94,493	-55,267
\$ Amount:	\$347,545	\$219,288	-\$128,257
Carbon Stored (tons):	76,099	48,016	-28,084
Carbon Sequestered (lbs):	592	374	-219

Stormwater Benefits

Additional Storage Volume Needed:		7,951,557	7,993,255
Cost of Retaining Additional Volume of Runoff:		\$15,903,114	\$15,986,510

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.