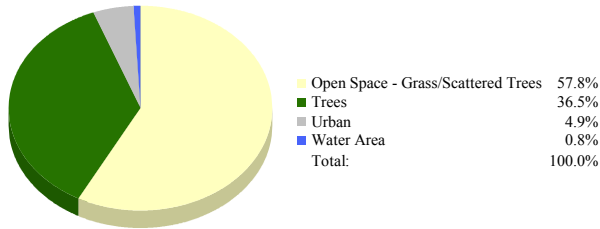
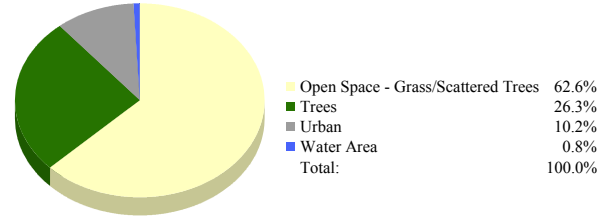


Cleveland County 1984 Landcover



Cleveland County 2003 Landcover



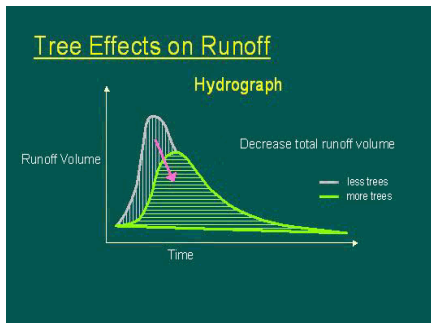
Air Quality Results

Pounds Removed per Year

Pollutant	1984	2003
Carbon Monoxide:	390,167	281,137
Nitrogen Dioxide:	682,793	491,989
Ozone:	3,999,216	2,881,650
Particulate Matter:	2,926,256	2,108,524
Sulfur Dioxide:	1,268,044	913,694
Total:	9,266,476	6,676,993

Stormwater Results

Storm Event Hydrograph



Stormwater Volume Change

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

*Curve Number reflecting conditions in 1984: 69

*Curve Number reflecting conditions in 2003: 71

Additional Storage volume of stormwater generated due to change in landcover from 1984 to 2003: 129,178,627 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: **\$258,357,253**

Benefits Summary

Landcover Change (acres)

Landcover	1984	2003	Change
Trees:	109,424	78,846	-27.9%
Open Space:	172,992	187,623	8.4%
Urban:	14,678	30,474	107.6%
Water:	2,387	2,538	6.4%
Total Acres:	299,481		

Air Pollution Benefits

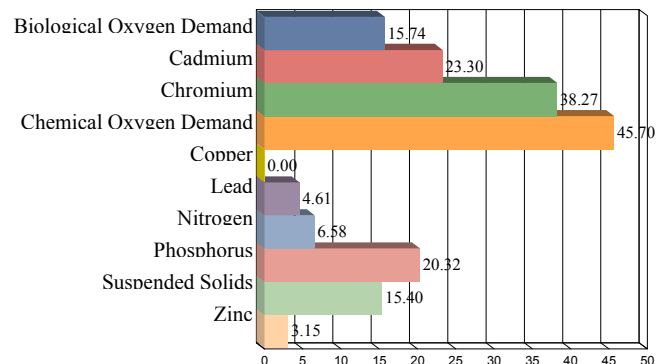
Pollutants Removed (lbs):	9,266,476	6,676,993	-2,589,482
\$ Amount:	\$21,504,532	\$15,495,170	-\$6,009,362
Carbon Stored (tons):	4,708,688	3,392,863	-1,315,826
Carbon Sequestered (lbs):	36,658	26,414	-10,244

Stormwater Benefits

Additional Storage Volume Needed:		583,380,132	129,178,627
Cost of Retaining Additional Volume of Runoff:		\$1,166,760,264	\$258,357,253

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.