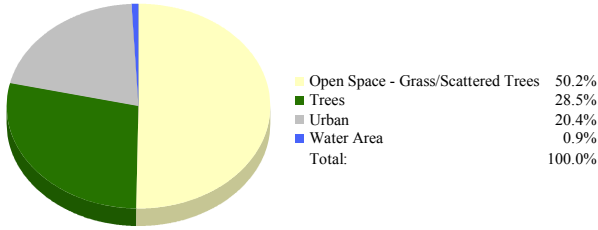
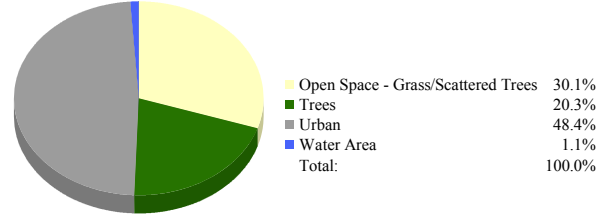


Monroe, NC 1984 Landcover



Monroe, NC 2003 Landcover



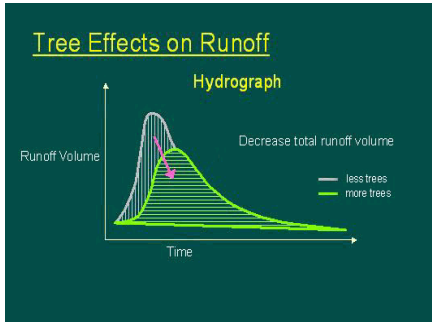
Air Quality Results

Pounds Removed per Year

Pollutant	1984	2003
Carbon Monoxide:	16,089	11,493
Nitrogen Dioxide:	28,156	20,112
Ozone:	164,914	117,799
Particulate Matter:	120,669	86,194
Sulfur Dioxide:	52,290	37,351
Total:	382,118	272,948

Stormwater Results

Storm Event Hydrograph



Stormwater Volume Change

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

*Curve Number reflecting conditions in 1984: 73

*Curve Number reflecting conditions in 2003: 80

Additional Storage volume of stormwater generated due to change in landcover from 1984 to 2003: 27,977,844 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: **\$55,955,687**

Benefits Summary

Landcover Change (acres)

Landcover	1984	2003	Change
Trees:	4,512	3,223	-28.6%
Grass, Crops w/ veg. & fallow:	7,960	4,772	-40.1%
Urban:	3229	7,678	137.8
Water:	150	178	18.7%
Total Acres:	15,851		

Air Pollution Benefits

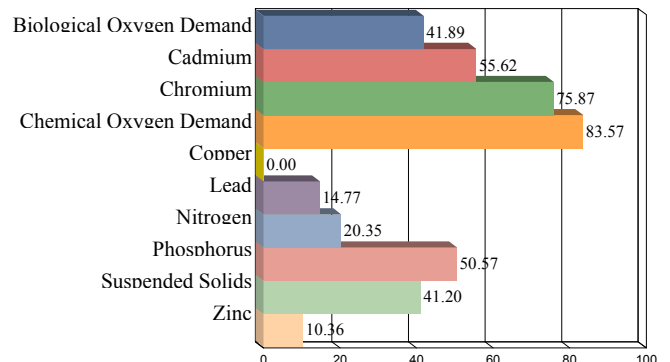
Pollutants Removed (lbs):	382,118	272,948	-109,170
\$ Amount:	\$886,775	\$633,425	-\$253,349
Carbon Stored (tons):	194,170	138,696	-55,474
Carbon Sequestered (lbs):	1,512	1,080	-432

Stormwater Benefits

Additional Storage Volume Needed:		27,853,012	27,977,844
Cost of Retaining Additional Volume of Runoff:		\$55,706,023	\$55,955,687

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.