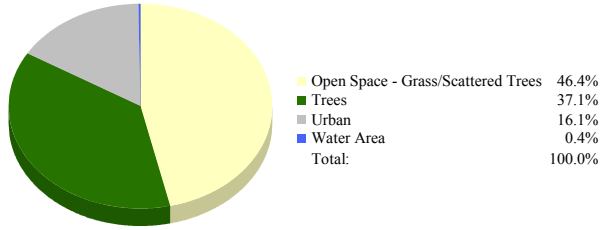
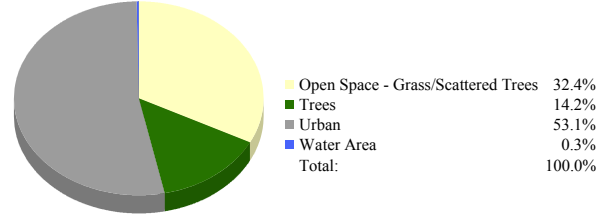


## Mooresville, NC 1984 Landcover



## Mooresville, NC 2003 Landcover



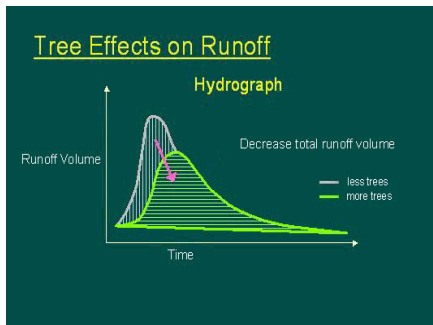
### Air Quality Results

#### Pounds Removed per Year

Pollutant	1984	2003
Carbon Monoxide:	12,543	4,818
Nitrogen Dioxide:	21,951	8,431
Ozone:	128,567	49,379
Particulate Matter:	94,074	36,131
Sulfur Dioxide:	40,765	15,657
<b>Total:</b>	<b>297,900</b>	<b>114,416</b>

### Stormwater Results

#### Storm Event Hydrograph



#### Stormwater Volume Change

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

\*Curve Number reflecting conditions in 1984: 71

\*Curve Number reflecting conditions in 2003: 81

Additional Storage volume of stormwater generated due to change in landcover from 1984 to 2003: 20,657,578 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: **\$41,315,156**

### Benefits Summary

#### Landcover Change (acres)

Landcover	1984	2003	Change
Trees:	3,518	1,351	-61.8%
Open Space:	4,399	3,072	-30.2%
Urban:	1,531	5,032	228.7%
Water:	34	26	-23.5%
Total Acres:	9,482		

#### Air Pollution Benefits

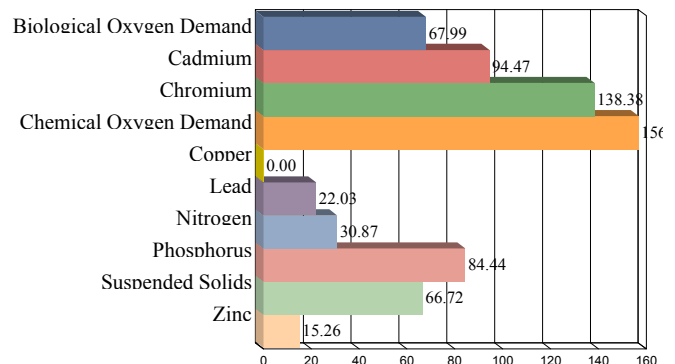
Pollutants Removed (lbs):	297,900	114,416	-183,485
\$ Amount:	\$691,331	\$265,522	-\$425,809
Carbon Stored (tons):	151,376	58,139	-93,236
Carbon Sequestered (lbs):	1,179	453	-726

#### Stormwater Benefits

Additional Storage Volume Needed:		12,741,836	20,657,578
Cost of Retaining Additional Volume of Runoff:		\$25,483,671	\$41,315,156

#### 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.