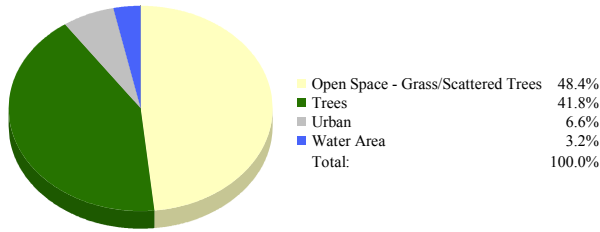
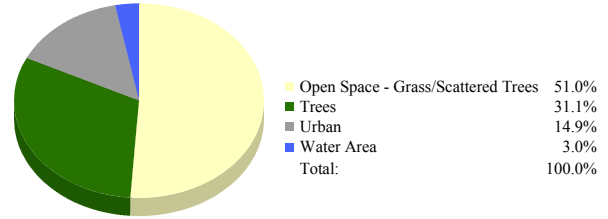


Iredell County 1984 Landcover



Iredell County 2003 Landcover



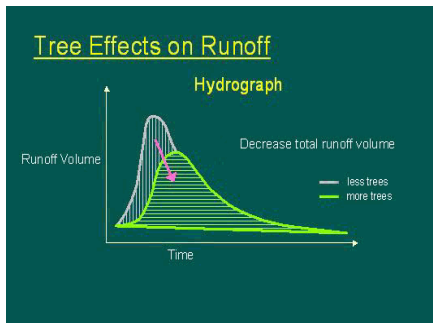
Air Quality Results

Pounds Removed per Year

Pollutant	1984	2003
Carbon Monoxide:	282,859	210,264
Nitrogen Dioxide:	1,414,295	1,051,322
Ozone:	6,505,758	4,836,079
Particulate Matter:	5,657,181	4,205,286
Sulfur Dioxide:	1,555,725	1,156,454
Total:	15,415,817	11,459,405

Stormwater Results

Storm Event Hydrograph



Stormwater Volume Change

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

*Curve Number reflecting conditions in 1984: 70

*Curve Number reflecting conditions in 2003: 72

Additional Storage volume of stormwater generated due to change in landcover from 1984 to 2003: 142,553,849 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: **\$285,107,697**

Benefits Summary

Landcover Change (acres)

Landcover	1984	2003	Change
Trees:	158,658	117,939	-25.7%
Grass, Crops w/ veg. & fallow:	183,740	193,568	5.3%
Urban:	24,974	56,578	126.5%
Water:	12,145	11,409	-6.1%
Total Acres:	379,481		

Air Pollution Benefits

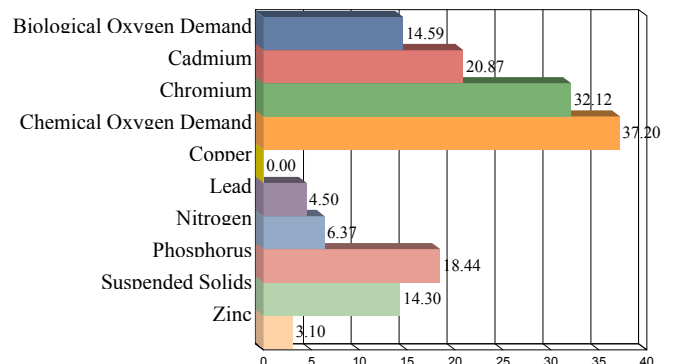
Pollutants Removed (lbs):	15,415,817	11,459,405	-3,956,412
\$ Amount:	\$37,224,205	\$27,670,752	-\$9,553,453
Carbon Stored (tons):	6,827,300	5,075,099	-1,752,201
Carbon Sequestered (lbs):	53,152	39,511	-13,641

Stormwater Benefits

Additional Storage Volume Needed:		850,744,521	142,553,849
Cost of Retaining Additional Volume of Runoff:		\$1,701,489,042	\$285,107,697

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.