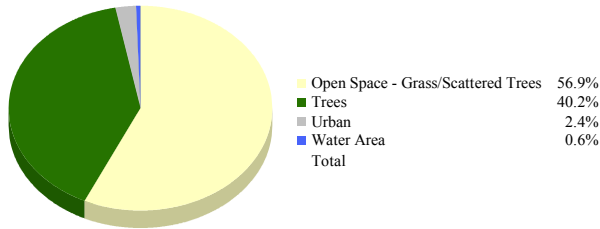
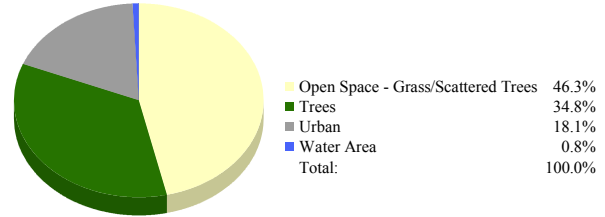


Union County 1984 Landcover



Union County 2003 Landcover



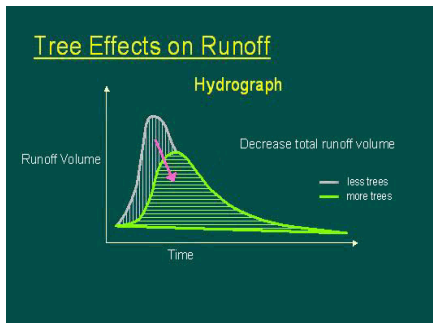
Air Quality Results

Pounds Removed per Year

Pollutant	1984	2003
Carbon Monoxide:	585,859	507,692
Nitrogen Dioxide:	1,025,253	888,460
Ozone:	6,005,055	5,203,839
Particulate Matter:	4,393,943	3,807,687
Sulfur Dioxide:	1,904,042	1,649,998
Total:	13,914,152	12,057,676

Stormwater Results

Storm Event Hydrograph



Stormwater Volume Change

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

*Curve Number reflecting conditions in 1984: 70

*Curve Number reflecting conditions in 2003: 74

Additional Storage volume of stormwater generated due to change in landcover from 1984 to 2003: 370,625,192 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: **\$741,250,384**

Benefits Summary

Landcover Change (acres)

Landcover	1984	2003	Change
Trees:	164,307	142,384	-13.3%
Grass, Crops w/ veg. & fallow:	232,772	189,484	-18.6%
Urban:	9,619	73,929	668.6
Water:	2,361	3,260	38.1%
Total Acres:	409,059		

Air Pollution Benefits

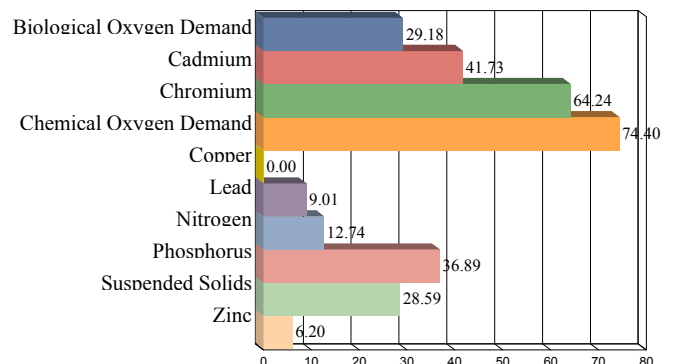
Pollutants Removed (lbs):	1984	2003	Change
Pollutants Removed (lbs):	13,914,152	12,057,676	-1,856,476
\$ Amount:	\$32,290,304	\$27,982,017	-\$4,308,288
Carbon Stored (tons):	7,070,369	6,127,015	-943,354
Carbon Sequestered (lbs):	55,045	47,700	-7,344

Stormwater Benefits

Additional Storage Volume Needed:	1984	2003	Change
Additional Storage Volume Needed:		1,094,145,322	370,625,192
Cost of Retaining Additional Volume of Runoff:		\$2,188,290,645	\$741,250,384

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.