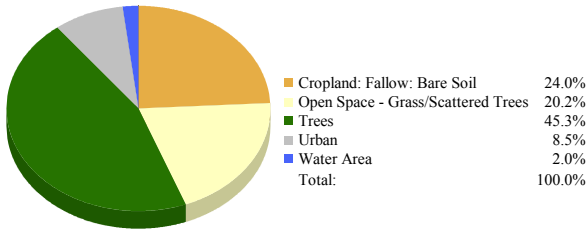
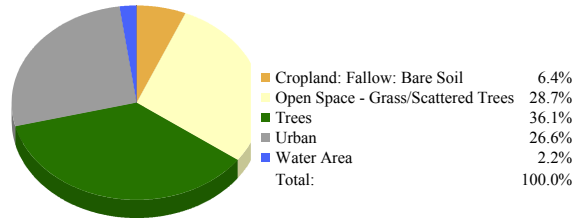


## Five County Area with 1984 Landcover



## Five County Area with 2003 Landcover



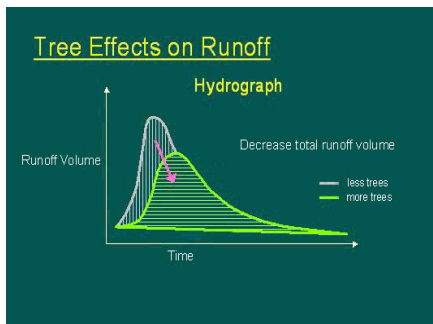
### Air Quality Results

#### Pounds Removed per Year

Pollutant	1984	2003
Carbon Monoxide:	2,522,819	2,008,634
Nitrogen Dioxide:	4,414,934	3,515,110
Ozone:	25,858,899	20,588,502
Particulate Matter:	18,921,145	15,064,758
Sulfur Dioxide:	8,199,163	6,528,062
<b>Total:</b>	<b>59,916,960</b>	<b>47,705,066</b>

### Stormwater Results

#### Storm Event Hydrograph



#### Stormwater Volume Change

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

\*Curve Number reflecting conditions in 1984: 77

\*Curve Number reflecting conditions in 2003: 78

Additional Storage volume of stormwater generated due to change in landcover from 1984 to 2003: 354,062,934 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: **\$708,125,868**

### Benefits Summary

#### Landcover Change (acres)

Landcover	1984	2003	Change
Trees:	707,536	563,331	-20.4%
Grass, Crops w/veg & bare soil:	690,338	547,759	-20.6%
Urban:	132,303	415,987	214.4%
Water:	31,297	34,564	9.8%

#### Air Pollution Benefits

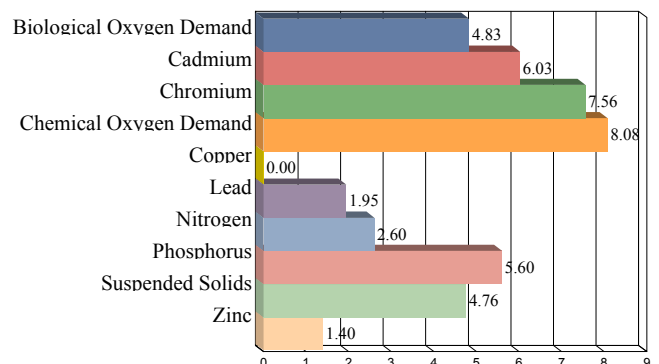
Pollutants Removed (lbs):	59,916,960	47,705,066	-12,211,894
\$ Amount:	\$139,048,136	\$110,708,228	-\$28,339,908
Carbon Stored (tons):	30,446,342	24,240,962	-6,205,380
Carbon Sequestered (lbs):	237,033	188,722	-48,311

#### Stormwater Benefits

Additional Storage Volume Needed:		4,148,884,151	354,062,934
Cost of Retaining Additional Volume of Runoff:		\$8,297,768,302	\$708,125,868

#### 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.