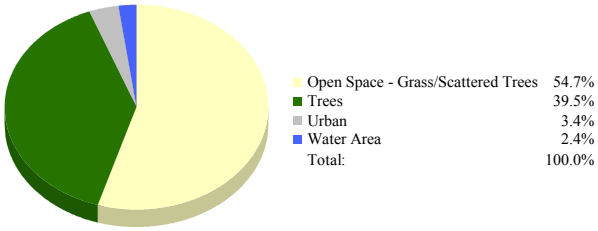
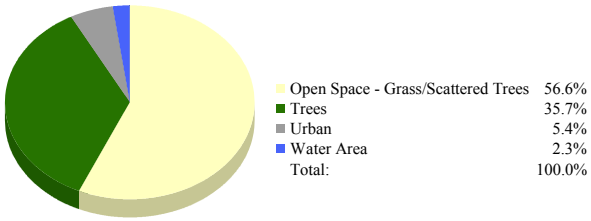
Analysis Report

Stanly County 1984 Landcover



Stanly County 2003 Landcover



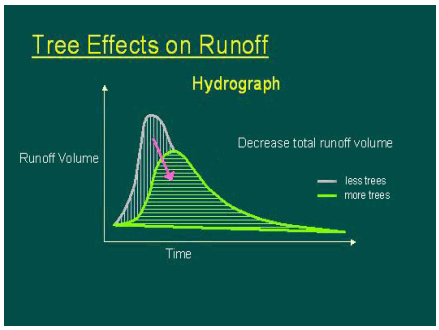
Air Quality Results

Pounds Removed per Year

Pollutant	1984	2003
Carbon Monoxide:	364,414	325,665
Nitrogen Dioxide:	637,725	569,914
Ozone:	3,735,244	3,338,068
Particulate Matter:	2,733,106	2,442,489
Sulfer Dioxide:	1,184,346	1,058,412
Total:	**8,654,835**	**7,734,548**

Stormwater Results

Storm Event Hydrograph



Stormwater Volume Change

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

**Curve Number reflecting conditions in 1984:* 72

**Curve Number reflecting conditions in 2003:* 72

Additional Storage volume of stormwater generated due to change in landcover from 1984 to 2003: 0 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: **$0**

Benefits Summary

Landcover Change (acres)

Landcover	1984	2003	Change
Trees:	102,202	91,334	-10.6%
Open Space:	141,544	144,685	2.2%
Urban:	8,714	13,811	58.5%
Water:	6,093	6,006	-1.4%
Total Acres:	258,553		

Air Pollution Benefits

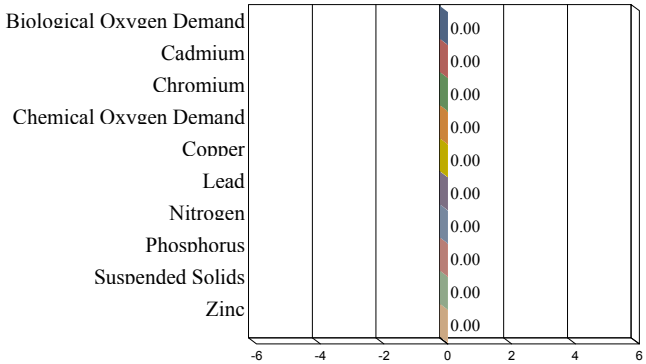
Pollutants Removed (lbs):	8,654,835	7,734,548	-920,286
$ Amount:	$20,085,108	$17,949,418	-$2,135,691
Carbon Stored (tons):	4,397,888	3,930,251	-467,636
Carbon Sequestered (lbs):	34,239	30,598	-3,641

Stormwater Benefits

Additional Storage Volume Needed:		727,276,513	0
Cost of Retaining Additional Volume of Runoff:		$1,454,553,025	$0

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.