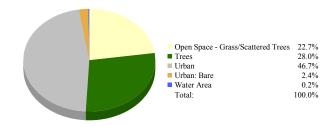


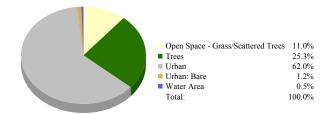
Analysis Report



Landcover 1 1991 Upper SWMA Land Cover



Landcover 2 2002 Upper SWMA Land Cover



Air Quality Results **Pounds Removed per Year**

Pollutant	1991 Landcover	2002 Landcover
Carbon Monoxide:	20,316	18,362
Nitrogen Dioxide:	111,740	100,988
Ozone:	314,904	284,604
Particulate Matter:	345,379	312,146
Sulfer Dioxide:	91,424	82,627
Total:	883,763	798,727

By absorbing and filtering out nitrogen dioxide (NO2), sulfur dioxide (SO2), ozone (O3), carbon monoxide (CO), and particulate matter less than 10 microns (PM10) in their leaves, urban trees perform a vital air cleaning service that directly affects the well-being of urban dwellers. This model, UFORE, developed the the US Forest Service, estimates the annual air pollution removal rate of trees within a defined study area for the pollutants listed below. To calculate the dollar value of these pollutants, economists use "externality" costs, or indirect costs borne by society such as rising health care expenditures and reduced tourism revenue. The actual externality costs used in the model is set by the each state, Public Services Commission.

Benefits Summary

Landcover Change (acres)				
Landcover	Landcover 1	Landcover 2	Change	
Tree Canopy:	11,396	10,299	-10%	
Air Pollution Benefits				
Pollutants Removed (lbs):	883,763	798,727	-85,037	
\$ Amount:	\$2,096,456	\$1,894,733	-\$201,723	
Carbon Stored (tons):	490,372	443,188	-47,184	
Carbon Sequestered (lbs):	3,818	3,450	-367	

Stormwater Results

Stormwater Volume Change Summary

2-yr, 24-hr Rainfall: 2.25 in.

*Curve Number reflecting Landcover 1: 81
*Curve Number reflecting Landcover 2: 84

Change in stormwater volume due to landcover change: 23,237,700 cu. ft.

Construction cost, per cu. ft.of

stormwater, to build retention facility: \$2.00

Cost of stormwater retention resulting

from landcover change: \$46,475,400

Water Quality (Contaminant Loading)

Percent Change in Contaminant Loadings from Landcover 1 to Landcover 2

