

# The VALUES of our URBAN FOREST

## ***ENVIRONMENTAL IMPACTS***

### **CLEAN AIR**

- a) Oxygen from photosynthesis
- b) Intercept particulate matter such as dust and hydrocarbons from fossil fuel combustion, and other volatile organic carbon compounds

### **CLIMATE CONTROL**

- a) Cooling---shade, evapotranspiration
- b) Heating---respiration, shelter
- c) Conserve Energy for buildings
- d) Alleviate Global Warming---fixing Carbon, photosynthesis

### **EROSION CONTROL**

- a) Interception---foliage dissipates rainfall energy reducing rainfall impact on soil, some H<sub>2</sub>O absorbed by plant
- b) Decreased Soil Erosion & Storm Runoff---from tree roots which hold soil and utilize rainfall & runoff

### **NOISE REDUCTION**

- a) Absorb, Diffuse, Reflect Sound

### **WILDLIFE HABITAT**

- a) Food Source
- b) Shelter---for local & migratory biota
- c) Ultimately a component of the *FOOD WEB & URBAN ECOSYSTEM*

## **RESOURCE UTILIZATION**

- a) Wood---for fuel, furniture, & building
- b) Leaves---for compost
- c) Chips---for insulation & weed suppression ground cover
- d) Fruit---food source
- e) Foliage---decoration, etc.

## ***SOCIAL IMPACTS***

**AESTHETIC QUALITIES**---beautification via trees and landscapes

**PSYCHOLOGICAL UPLIFT**---green is a relaxing color, reduced crime

**IMPROVEMENT OF CIVIC PRIDE**---community identity with trees

**HISTORICAL/CULTURAL IMPACT**---recognize previous achievements

**ENHANCED PROPERTY VALUES**---up to 20% of property value from trees and surrounding landscape

**INCREASED TAX BASE**---trees increase the monetary worth of the area