DRAFT Ecosystems Metrics Position Paper

5-9-12 Version 2

- Canopy Cover (aerial, satellite)
 This is a basic measurement useful to establish trends and provide a big-picture view of size of
 the urban forest
- 2. Urban Forest Assessment (from the ground, i-Tree) This is a more in depth view of the many benefits the urban forest provides. It has metrics that better represent current condition and help us track change over time.
 - a) Urban forest structure:
 - Condition of the Urban Forest (ensuring diversity)
 - o Species
 - Size (age)
 - o Health
 - Habitat
 - Connectivity (Stands/corridors/large trees)
 - o Woody debris
 - Understory
 - Evergreen/deciduous
 - Forest succession
 - b) Urban forest function (benefits of the Urban Forest)
 - Environmental:
 - Carbon sequestration
 - o Energy avoidance
 - o Micro-climate (urban heat island, temperature attenuation)
 - o Stormwater management
 - Air/water pollution removal
 - Social:
 - o Public health
 - Food (fruit/nut trees, berries, roots)
 - o Crime prevention
 - o Traffic calming
 - Community building/livability/access
 - Economic:
 - Property values
 - Economic vitality
 - Views
 - Public
 - Private
 - o Risk:
 - Invasive species
 - Pest susceptibility
 - Maintenance
 - Land use