Urban Forest Sustainability Model Criteria and Performance Indicators
Clark et al/Kenney et al Comparison
10-28-11 v.2

Vegetation resource

Clark et al		Kenney et al		2007 UFMP Goals (Tree Resource)	UFMP Progress Report
Criteria	**Key Objective**	**Criteria**	**Key Objective**		
Canopy Cover	Achieve climate-appropriate degree of tree cover, community-wide	Relative canopy cover	Achieve climate-appropriate degree of tree cover, community-wide	Maximize canopy cover and optimize age and species diversity	Increase canopy cover and environmental benefits
Age-distribution of trees in community	Provide for uneven age distribution	Age-distribution of trees in community	Provide for uneven age distribution citywide as well as at the neighborhood level	Maintain trees to promote health and longevity	Maintain trees to promote health and longevity
Species mix	Provide for species diversity	Species distribution	Establish a genetically diverse tree population citywide as well as at the neighborhood level	Understand the characteristics and complexity of Seattle's urban forest	
		Species suitability	Establish a tree population suitable for the urban environment and adapted to the regional environment	Maximize the ecological and environmental benefits of the urban forest	
Native vegetation	Preserve and manage regional biodiversity. Maintain the biological integrity of native remnant forests. Maintain wildlife corridors to and from the city.	Native vegetation	Preservation and enhancement of local natural biodiversity		
		Condition of publicly owned trees (trees managed intensively)	Detailed understanding of the condition and risk potential of all publicly-owned trees		
		Publicly owned natural areas (trees managed extensively; e.g. woodlands, ravine lands, etc.)	Detailed understanding of the ecological structure and function of all publicly-owned natural areas		

Community framework

Clark et al		Kenney et al		2007 UFMP	UFMP Progress Report
Criteria	Key Objective	Criteria	Key Objective		
Public agency cooperation	Insure all city departments operate with common goals and objectives	Public agency cooperation	Insure all city departments operate with common goals and objectives	Facilitate interdepartmental communication and cooperation to provide decision makers the information they need to support and implement the UFMP ==(In management framework)==	Facilitate interdepartmental cooperation ==(in Management Framework)==
Involvement of large private and institutional land holders	Large private landholders embrace city-wide goals and objectives through specific resource management plans	Involvement of large private and institutional land holders	Large private landholders embrace city-wide goals and objectives through specific resource management plans		
Green industry cooperation	The green industry operates with high professional standards and commits to city-wide goals and objectives	Green industry cooperation	The green industry operates with high professional standards and commits to city-wide goals and objectives		
Neighborhood action	At the neighborhood level, citizens understand and participate in urban forest management	Neighborhood action	At the neighborhood level, citizens understand and participate in urban forest management	Engage the community in active stewardship of the urban forest	Increase community engagement in urban forest management
Citizen-government-business interaction	All constituencies in the community interact for the benefit of the urban forest	Citizen-==municipality==-business interaction	All constituencies in the community interact for the benefit of the urban forest	Promote citizen-government-business partnerships	
General awareness of trees as community resource	The general public understands the value of trees to the community	General awareness of trees as community resource	The general public understands the ==role of the urban forest==	Enhance public awareness of the urban forest as a community resource	Enhance awareness of the urban forest as a community resource
Regional cooperation	Provide for cooperation and interaction among neighboring communities and regional groups	Regional cooperation	Provide for cooperation and interaction among neighboring communities and regional groups		

Resource management framework

Clark et al		Kenney et al		2007 UFMP	UFMP Progress Report
Criteria	**Key Objective**	**Criteria**	**Key Objective**		
City-wide management plan	Develop and implement a management plan for trees and forests on public and private property	City-wide management plan	Develop and implement a comprehensive urban forest management plan for private and public property	Develop and implement resource management tools	Improve management of trees on private property and ROW through incentives and regulations
City-wide funding	Develop and maintain adequate funding to implement a city-wide management plan	Municipality-wide funding	Develop and maintain adequate funding to implement a city-wide urban forest management plan		
City staffing	Employ and train adequate staff to implement city-wide management plan	City staffing	Employ and train adequate staff to implement city-wide urban forestry plan		
Assessment tools	Develop methods to collect information about the urban forest on a routine basis	Tree inventory	Complete inventory of the tree resource to direct its management, including age distribution, species mix, tree condition, and risk assessment	Preserve and protect existing trees, and encourage new tree planting throughout the city by improving management of trees on private property	Implement resource management tools
		Canopy cover inventory	High resolution assessments of the existing and potential canopy cover for the entire community	Model good stewardship in city practices	
		Tree establishment planning and implementation	Urban forest renewal is ensured through a comprehensive tree establishment program driven by canopy cover, species diversity, and species distribution objectives		
		Tree habitat suitability	All publicly owned trees are planted in habitats that will maximize current and future benefits provided to the site		

Clark et al		Kenney et al		2007 UFMP	UFMP Progress Report
Criteria	Key Objective	Criteria	Key Objective		
		Maintenance of publicly owned, intensively managed trees	All publicly owned trees are maintained to maximize current and future benefits. Tree health and condition ensure maximum longevity		
		Tree risk management	All publicly owned trees are safe		
		Tree protection policy development and enforcement	The benefits derived from large-stature trees are ensured by the enforcement of municipal wide policies		
		Publicly owned natural areas management planning and implementation	The ecological structure and function of all publicly-owned natural areas are protected and, where appropriate, enhanced		