

Community Forest Management Plan

Community forestry is the art, science and technology of managing trees and natural systems in and around urban community ecosystems for the physiological, socological, economic, ecological and aesthetic benefits vegetation and green spaces provide.

Community Forest Benefits:

-Energy savings
-Air quality
-Stormwater mitigation and soil retention
-Social benefits
-Economic benefits
-Wildlife habitat
-Buffering and noise reduction

GIS Inventory and lTrees:

-On-going process of mapping trees in GIS

Year:	Maintained Trees:
2005	7,128
2006	7,192
2007	7,340
2008	7,441
2009	7,494
2010	7,775
2011	7,883
2012	8,113
2013	8,540
2014	8,664
2015	9,403
2016	9,909
2017	10,174
2018	10,359

GIS Inventory and ITrees:

-Itrees Program

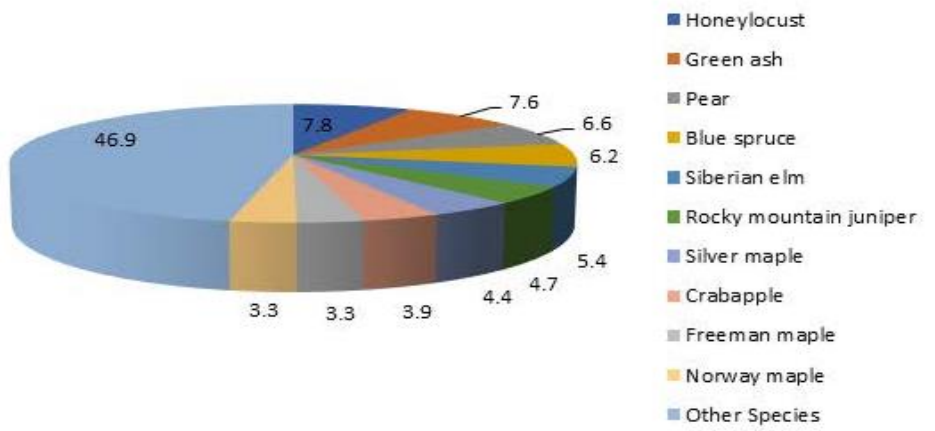
- USDA Forest Service
- Species distribution
- Tracks Benefits and Costs

GIS Inventory and ITrees:

Durango

Species Distribution of Public Trees

11/7/2019



Species	Percent
Honeylocust	7.8
Green ash	7.6
Pear	6.6
Blue spruce	6.2
Siberian elm	5.4
Rocky mountain juniper	4.7
Silver maple	4.4
Crabapple	3.9
Freeman maple	3.3
Norway maple	3.3
Other Species	46.9
Total	100.0

GIS Inventory and ITrees:

Durango

Total Annual Benefits, Net Benefits, and Costs for Public Trees

11/6/2019

Benefits	Total ($)	Standard Error	$/tree	Standard Error	$/capita	Standard Error
Energy	121,230	(N/A)	12.09	(N/A)	6.57	(N/A)
CO2	21,911	(N/A)	2.18	(N/A)	1.19	(N/A)
Air Quality	11,701	(N/A)	1.17	(N/A)	0.63	(N/A)
Stormwater	163,286	(N/A)	16.28	(N/A)	8.84	(N/A)
Aesthetic/Other	1,494,996	(N/A)	149.08	(N/A)	80.96	(N/A)
Total Benefits	1,813,124	(N/A)	180.81	(N/A)	98.19	(N/A)
Costs						
Planting	87,470		8.72		4.74	
Contract Pruning	83,080		8.28		4.50	
Pest Management	20,000		1.99		1.08	
Irrigation	25,496		2.54		1.38	
Removal	8,120		0.81		0.44	
Administration	5,200		0.52		0.28	
Inspection/Service	5,200		0.52		0.28	
Infrastructure Repairs	0		0.00		0.00	
Litter Clean-up	34,000		3.39		1.84	
Liability/Claims	0		0.00		0.00	
Other Costs	0		0.00		0.00	
Total Costs	268,566		26.78		14.54	
Net Benefits	1,544,558	(N/A)	154.02	(N/A)	83.65	(N/A)
Benefit-cost ratio	6.75	(N/A)				

Forestry Management Plan Objectives:

-Biological Needs: The Tree Resource

-Management Needs: Short and Long Term Care and Maintenance

-Community Needs: Public Interaction

Implementation:

-Increase the tree inventory

-Preserve and maintain the existing community forest

-Compatibility with City's environmental and sustainability goals

-Foster public support

-Secure adequate funding

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How do we, as community, need to adapt to changing conditions in order to provide for the Community Forest?

Thank you,



Enrich Your Life

Durango

Parks & Recreation