



Providence Tree Tally, 2006 Key Findings

- **24,999 street trees** (includes 409 dead trees)
- **The species are diverse** – over 95 different tree species
- Top species – Norway maple (18.8%), Callery Pear (11.6%), Green Ash (8.6%), Honeylocust (7.4%), London Planetree (7.0%), Red Maple (5.6%), Zelkova (4.4%)
- **More than 2/3 of street trees are in either excellent (23.2%) or good (48.9%) condition**, with 18.9% fair, 7.3% poor, and 1.6% dead.
- The trees are weighted toward the **smaller size classes, with 2/5 (39.9%) 6” in diameter or less, and nearly 2/3 (65.1%) 12” in diameter or less**. 27.6% of trees were 13-24” in diameter, and 7.2% were greater than 24” diameter.
- 41.5% of trees had utility wires located above (or through) them.
- 52.4% of planting spaces were sidewalk pits, while 47.6% were lawn strips or lawn areas.
- **The avg. size tree pit was 16.5 sf., and the avg. lawn strip width was 3.89 ft.**
- 27.6% of trees had cracked or raised sidewalks adjacent to them.
- 16.2% of trees had some sort of infrastructure conflict threatening their health, led by close sidewalk pavement (12.0%).

- Providence’s street trees provide **\$2,932,731 in benefits annually**. (\$118.23/tree)

Total Annual Benefits of Street Trees, City of Providence			
Benefit	Amount	Sub-Value	Total Value
Energy			
Electricity saved	1684 MWh	\$202,132	
Natural Gas saved	633,812 therms	\$1,026,528	\$1,228,660
CO2			
CO2 stored	2,180 tons	\$14,564	
CO2 avoided	2,527 tons	\$16,945	
CO2 released	504 tons	(\$3,367)	\$28,143
Air Quality			
Pollution intercepted	29 tons	\$101,096	
Pollution avoided	12 tons	\$101,863	
BVOC pollution emitted	2 tons	(\$8,627)	\$194,334
Stormwater			
Stormwater intercepted	30.6 m. gallons		\$244945
Aesthetic/Other			
Incr. property values			\$1,236,649
		TOTAL	\$2,932,731

- **38,899 tons of carbon are stored** in Providence’s street tree population.
- **For every dollar the City spends on the tree program, we are “paid back” \$3.33 in benefits each year!!**
- The **replacement value** of Providence’s street trees is **\$81,855,622**, or \$3,274 tree