The Urban Forest and Traffic
2013 Canopy Assessment

- 2.2 million trees
- 3.7 trees per capita
- Asset value of $2.9 billion
• $122 million in annual benefit from property value and ecosystem services
$95.7 million in annual property value benefit
Energy Savings

Cooling

• $6.8 million
• Shading of structures reducing direct cooling costs
• Shading of impervious surfaces reducing air temperatures
Rain Fall Interception

Stormwater management

• 1.4 billion gallons interception potential
• $189.4 million facility would be needed to manage the stormwater managed currently
Pollutants removed
- 290.6 lb absorbed/deposition
- $1,554 annual benefit

CO₂ benefit
- 310.6 tons stored
- 14 tons added to storage annually
- 53,563 tons of avoided emissions from cooling
Monaco
Route choice

• Two parallel roads provide access to a shopping center
  – Express way
  – Parkway

• Scenic route was chose more than half the time over the express way
Stress reduction

• Commute stress
  – Physiologically incomplete recovery
  – Negative feelings

• Viewing vegetation beneficial mood changes and tension relief

• Immunization effect
Traffic calming

• Studies show that streets with trees are perceived as being safer
Physical barrier
Physical barrier
Physical barrier
Safe Streets

City streets are not just thoroughfares for motor vehicles; they serve as public spaces where people walk, shop, meet, and participate in activities that make urban living enjoyable. Conventional guidelines for transportation safety regard trees as roadside fixed-objects that constitute driving hazards but urban foresters, designers, and planners encourage tree planting to enhance the livability of urban streets. This article surveys the research on roadside vegetation benefits, and the scientific evidence concerning city trees, and transportation safety.¹

Fast Facts

- The public judges communities having vegetation-bordered roads more positively, with ratings of visual quality for an adjoining city or town increasing as the amount of roadside vegetation increases.⁶
- Commuting by car is a stressful experience of urban life. Drivers seeing natural roadside views show lower levels of stress and frustration compared to those viewing all-built settings.¹²
- Transportation safety guidelines for roadsides are generally derived from studies of high speed rural roads, while recommendations for
Thank you, and please feel free to contact us with questions

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Thank YOU!

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