



## Fuel-Efficient Driving\*

### Drive the speed limit.

For most cars, optimum efficiency is at 60mph. Driving within the speed limit can help save money!

### Drive sensibly.

Aggressive driving can reduce fuel efficiency by 33% on the highway and by 5% around town.

### Use cruise control.

Most fuel is used in acceleration and braking when driving. Cruise control keeps your speed constant to avoid speed changes.

### Remove excess weight.

An extra 100 pounds of weight in your car can reduce fuel efficiency by up to 2% (about \$0.03-0.05 per gallon).

### Don't idle!

Idling uses gas and pollutes the air without helping you get to your destination. If your trip is finished and you are safely parked, why not turn off your engine and save gas?



\*Source: FuelEconomy.gov

\*\*Source: City of Knoxville

## Small Steps...

- ◆ **Drive less** Consider using forms of transportation other than driving. Walk, bike, carpool, or use public transportation when possible.
- ◆ **Plan errands** Combine trips and plan your route so you drive the shortest distance possible.
- ◆ Consider switching to an **alternative fuel vehicle** when it's time to buy a new car.
- ◆ **Drive with fuel efficiency in mind** If you drive within the speed limit, use cruise control when appropriate, and stop idling, you can save gas and money.
- ◆ **Purchase renewable energy credits** Your power can come from a renewable source! For details, visit [www.tva.gov/greenpowerswitch](http://www.tva.gov/greenpowerswitch)
- ◆ **Avoid burning plastic or Styrofoam.** This adds harmful chemicals to our air. Recycle plastic in curbside bins or dropoff centers. Recycle Styrofoam with the Knoxville Recycling Coalition.

## Did you know?

Roughly 2.9 billion vehicle-miles were traveled on Knoxville's roadways in 2005, producing about 1.9 tons of eCO<sub>2</sub>, or about 47% of community emissions. The Great Smoky Mountains are particularly threatened by increasing air pollution and the changing climate. You can help reduce pollution in East Tennessee by taking a few of these steps.\*\*

CITY OF KNOXVILLE

*Citizen's Guide to Sustainability*

## Air Quality & Transportation



CITY OF KNOXVILLE

Office of Energy and Sustainability  
City County Building, Room 655

Phone: 865-215-2029

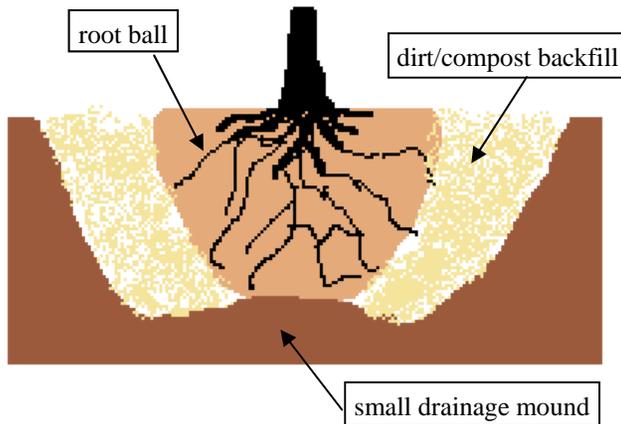
Fax: 865-215-3035

E-mail: [Sustainability@cityofknoxville.org](mailto:Sustainability@cityofknoxville.org)

# Big Steps... Plant a Tree

## TOOLS

- 1x shovel
- 1x tree sapling of your choice with root ball
- Compost
- Mulch
- Hose



## HELPFUL HINTS AND TIPS

Always check with the city and local utility providers to determine the ground you are digging in does not have any important structures or cables running below it.

Trees are generally most successful when they are planted in mild weather, either spring or fall. This ensures that they are more established and can withstand the elements by the time intense weather hits in either the winter or summer.

Choosing a tree that is native to the area will give it a better chance at survival.

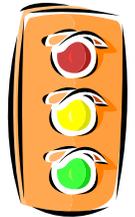
1. Dig a hole as deep as the root ball and about 2-3 times as wide. Leave a small mound in the center of the bottom of the hole. (It's very important for water dispersal and pooling prevention; drowning is the main reason trees die.)
2. With the point of your shovel, score the sides of the hole to help the roots take to the surrounding soil more easily.
3. Lower the tree into the hole and cut any burlap away. It is okay if not all burlap can be removed.
4. Backfill the rest of the hole with the dirt and compost. Aim for a dirt to compost ratio of 3:1.
5. Water the tree. Let the soils settle, and then add the rest of the remaining soil you dug out of the hole.
6. Water again. Water one gallon for every six inches of tree height.
7. Cover the hole with 1-3 inches of mulch. Do not put mulch against the trunk or the trunk will rot.



Information provided by:  
Image: Greeley, CO <http://www.greeleygov.com/Forestry/treecare.aspx>

## Bicycle Safety

Obey all traffic laws.



Wear a helmet at all times!

Wear reflectors or bright clothes, especially when biking in the dark or dusk.

Stick to routes with less traffic and slower speed limits.

