

Top 10 Tips to Getting Better Mileage

1. **Practice good vehicle maintenance**— A poorly tuned engine burns more fuel, so fuel economy will suffer if your engine is not in tune. Energy-saving motor oils can also improve your mileage.
2. **Properly inflate tires**— When tires aren't inflated properly it's like driving with the parking brake on and can reduce performance by one to two miles per gallon.
3. **Regularly replace spark plugs**— A vehicle can have either four, six or eight spark plugs, which fire as many as 3 million times every 1,000 miles, resulting in a lot of heat and electrical and chemical erosion. A dirty spark plug causes misfiring, which wastes fuel. Spark plugs need to be replaced regularly.
4. **Regularly replace air filters**— An air filter that is clogged with dirt, dust and bugs chokes off the air and creates a "rich" mixture – too much gas being burned for the amount of air, which wastes gas and causes the engine to lose power. Replacing a clogged air filter can improve gas mileage by as much as 10 percent, saving about 15 cents a gallon.
5. **Don't be an aggressive driver**— Aggressive driving can lower gas mileage by as much as 33 percent on the highway.
6. **Avoid excessive idling**— Sitting idle gets zero miles per gallon. Letting the vehicle warm up for one to two minutes is sufficient.
7. **Observe the speed limit**— Gas mileage decreases rapidly at speeds above 60 mph. Each mph driven over 60 will result in an additional 10 cents per gallon. To maintain a constant speed on the highway, cruise control is recommended.
8. **Reduce frequent short trips**— Your engine doesn't operate efficiently until it is warmed up.
9. **Avoid 4-wheel drive**— Four-wheel drive vehicles are tested in 2-wheel drive. Engaging all four wheels makes the engine work harder and increases crankcase losses.
10. **Limit Extra Weight Towed**— Carrying excessive weight can decrease fuel economy. Empty your trunk of items that you don't need on a daily basis.

Let's Take Care of the Air We Share!

Residents Guide to Alternative Fuels and other Fuel Efficient Technologies



Plus: Top 10 Tips to Getting Better Mileage



**Promoting Clean Air and
Energy Independence**





We at the Western Riverside County Clean Cities Coalition hope you enjoy the numerous articles and resources related to air quality and energy independence inside. This booklet is designed to inform residents about current technologies that will improve our region's air quality and to encourage residents to do their share to improve the state of our air quality.

The Coalition is committed to achieving clean air in our region through promoting use of alternative fuel vehicles (AFVs) and building a local AFV refueling infrastructure. We all breathe the same air and it's up to us to improve our air quality!

Let's keep our air clean and beautiful!

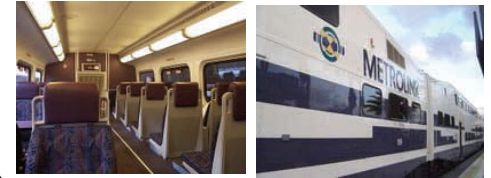
With Best Wishes for Clean Air,
The Western Riverside County
Clean Cities Coalition

For a Long commute:

Ride Metrolink!

This train will take you from the Riverside Downtown or the La Sierra Station to your far destination without paying the high gas prices and crowded freeways. It's easy to use!

1. Plan your trip by visiting Metrolink's website at www.metrolinktrains.com.
2. Identify your trainline.
3. Select a format to view the train schedule.
4. Use the Fare Calculator to find out exactly how much your trip will cost.



Or Call Metrolink directly at: 1 (800) 371-5465 to speak with a customer service representative.



For a Long or Cross-County commute:

AMTRAK, an intercity passenger train system that consists of 22,000 miles of routes, serves 500 communities in 46 of the United States makes traveling easy as well as cost efficient.

1. Simply log on to their website at www.amtrak.com and fill out the Fare Finder that automatically pops up and make your reservation.

Or call AMTRAK at: 1 (800) USA-RAIL (872-7245)

AMTRAK Discounts:

Kids: 50% off Seniors: 15% off
Students: 15% off Military: 15% off



Air Quality Factoid: It takes approximately 1 1/2 hours to travel from the Riverside Downtown Station to the L.A. Union Station via the metrolink and costs approximately 16 cents. If you were to drive that same distance it would take around 1 hour (highly unlikely with traffic) and would cost around 49 cents a mile.

The Western Riverside County Clean Cities Coalition would like to thank all of it's sponsors!

Are You a Commuter?



- Save Gas!**
- Reduce Stress!**
- Increase Productivity!**
- Improve Your Quality of Life!**

Public Transit Sets You FREE!!!

For a short *flexible* commute:

Take RTA all the way! This bus system travels throughout Riverside County and has multiple stops to get you to where you need to go. To ride on RTA:

1. Visit RTA's website at www.Riversidetransit.com to plan your trip.
2. Select the "Plan a Trip" icon, then the "TimeTables and Routemaps" link
3. Choose a route that meets your needs and select either a weekday or weekend schedule

RTA Rates:

- \$1.25/bus one way
- \$3.75 all day pass
- \$43.00 for General 31-day pass
- \$32.00 for Youth 31-day pass
- \$21.00 for Senior/Disabled 31-day pass



For a short *consistent* commute:

Use RCTC's Rideshare Program!

RCTC makes it easier than ever to Carpool, Vanpool or locate Park & Ride locations.

1. Locate others who would like to car/vanpool and Park & Ride locations by visiting RCTC's Ride Match link at www.ridematch.info.
2. Fill out the simple registration steps and submit.
3. Select a means of travel: Carpool, Vanpool or Park & Ride to view other potential Car/Vanpool partners and Park & Ride locations. It's that easy!



Contents:

SCAQMD to the RESCUE
Contact Information.....1

Clean Air Act
Alternative Fuels.....2

Environmental Buzzzzzzzz...6

Vehicle Retrofitting
Ironman Parts & Services
Join the Coalition7

Alternative Technologies.....9

Are you a Commuter?.....12

Top 10 Tips to Getting Better
Mileage..... Back Page

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SCAQMD
to the
RESCUE!



If you live in the South Coast Air Basin, and you have a concern or complaint about air quality or air pollution you can report it to the South Coast Air Quality Management District (SCAQMD). SCAQMD takes all complaints seriously and offers residents a hotline to report air quality complaints.

SCAQMD accepts air quality complaint calls 24 hours a day, 7 days a week. Their normal business hours are from Tuesday-Friday, 7:00 a.m. to 5:30 p.m. After hours, you will be assisted by an automated service.

When you call, you will be asked for your name, address, and a day time phone number to contact you. You will also need to disclose the following:

- The time the air quality incident occurred;
- The nature of the air quality complaint (ex: smoke, dust, odor);
- Past experiences, if any, with this type of air quality problem;
- The wind direction if known;
- The name and address of the alleged source and the type of operation if known.

**Have an air quality
complaint or need to
report a concern? Call:**

1-800-CUT-SMOG

Clean Air Act

The Clean Air Act is a federal law passed by Congress in 1970. It is designed to ensure that all Americans have air that is safe to breathe. Public health protection is the Act's primary goal, though the law also seeks to protect our environment from damage caused by air pollution.

The Clean Air Act requires that the United States Environmental Protection Agency (EPA) set national health-based air quality standards to protect the public against common pollutants including ozone, carbon monoxide, sulfur dioxide, nitrogen dioxide, lead, and particulate soot. State governments must devise cleanup plans to meet health standards by 2018. In addition, the EPA sets national standards for major new sources of pollution including automobiles, trucks and electric power plants. The agency also is charged with developing controls for major sources of such toxic pollutants as benzene.

Alternative Fuels

Automakers are already producing and selling alternative fuel vehicles to help improve our region's air quality through use of cleaner fuels. Alternative fuels can be either petroleum or non petroleum based and all contain their own specific environmental benefits. These benefits can range from significantly lower air emissions to a 100% renewable fuel source which will ultimately make a great improvement in the air that we breathe in our communities.

Compressed Natural Gas (CNG)

Average National Price: \$2.12 per Gasoline Gallon Equivalent (GGE)

Compressed Natural Gas (CNG) is a mixture of hydrocarbons and is consumed in the residential, commercial, industrial, and utility markets.

CNG powered vehicles emit 85% less nitrogen oxide (NOx), 70% less reactive hydrocarbons, and 74% less carbon monoxide than similar gasoline powered vehicles.

Compressed Natural Gas Vehicles



2006 Honda Civic GX

City MPG: 30 Hwy MPG: 34
MSRP for CNG model: \$21,760
Transmission/Engine: Automatic (CVT)
SOHC 1.7 L

Electric Technology

Electricity is unique among the alternative fuels in that its mechanical power is derived directly from itself, opposed to other alternative fuels that release stored chemical energy through combustion to provide mechanical power.

Electricity is stored in an energy storage device such as a battery. Batteries must be recharged by plugging the vehicle into an electrical source.

The electricity for recharging the batteries can come from renewable sources such as solar or wind energy.



2006 CART-RITE Transporter

City MPG: Unavailable Hwy MPG: Unavailable
MSRP for Electric model: \$6,495
Transmission/Engine: 2.2 kW Cart-Rite electric motor/curtis controller



2006 Global Electric Motorcars eS

City MPG: Unavailable Hwy MPG: Unavailable
MSRP for Electric model: \$7,695
Transmission/Engine: direct-coupled Dana Spicer 72 volt shunt GE motor



2006 Dynasty Motorcar Corporation IT Sedan

City MPG: Unavailable Hwy MPG: Unavailable
MSRP for Electric model: \$14,500
Transmission/Engine: Dana Spicer 72V Advanced DC



2006 Western Golf Cars Lido Sedan

City MPG: Unavailable Hwy MPG: Unavailable
MSRP for Electric model: \$14,100
Transmission/Engine: Brush DC Motor



2006 Honda Accord Hybrid

City MPG: 30 Hwy MPG: 38
MSRP for Hybrid model: \$30,140
Transmission/Engine: 3.0 L



2006 Toyota Highlander

City MPG: 33 Hwy MPG: 28
MSRP for Hybrid model: Unavailable
Transmission/Engine: CVT (DOHC) 24 Valve with (VVT-i) and electric permanent magnet 3.3 L



2006 Honda Insight

City MPG: 60 Hwy MPG: 66
MSRP for Hybrid model: \$19,330
Transmission/Engine: Manual 5-Speed CVT In-line 3 cylinder 1.0 L



2006 Ford Motor Co. Escape Hybrid

City MPG: 36 Hwy MPG: 31
MSRP for Hybrid model: \$27,515
Transmission/Engine: ECVT Duratec I-4 Atkinson Cycle 2.3L



2006 GM Chevrolet Silverado

City MPG: 9 Hwy MPG: 12
MSRP: \$27,985—\$33,915
Transmission/Engine: 4 Speed Automatic Vortec 6000 6.0L



2006 GM - GMC Sierra

City MPG: 9 Hwy MPG: 12
MSRP: \$16,715—\$36,045
Transmission/Engine: 4 Speed Automatic Vortec 6000 6.0L

Compressed Natural Gas Public Fueling Stations in Western Riverside County



City of Banning

176 E. Lincoln Street
Banning, CA 92220
(951) 922-3291

City of Corona

760 Corporate Yard Way
Corona, CA 92880
(951) 736-2307

City of Riverside Corporation Yard

8095 Lincoln Avenue
Riverside, CA 92504
(951) 351-6157

(Station pictured to left)

Moreno Valley

17700 Indian Avenue
Moreno Valley, CA 92551
(866) 278-3674

So Cal Gas - Riverside Base

4495 Howard Avenue
Riverside, CA 92507
(800) 427-2000



Alvarez Lincoln, Mercury and Jaguar
(951) 687-1212

Beautiful, environmentally conscience vehicles for beautiful, environmentally conscience people.



CNG Fuel Pump

Compressed Natural Gas Fuel Providers:



Contact: Mike Bolin
(213) 244-5515



North America's leader in clean transportation

Contact: Matt Shea
(562) 546-0324

Propane (LPG)

National Price: \$2.56 per gallon

Propane, also called liquefied petroleum gas (LPG), can produce fewer ozone-forming emissions than vehicles powered by reformulated gasoline.

Approximately 85% of all propane used in this country comes from domestic sources, so driving a propane vehicle can help reduce U.S. dependence on imported oil and strengthen national security.

Propane Vehicles

Current Model Year Light-Duty LPG Vehicles need to be retrofitted. See page 7 for more information regarding vehicle retrofits.

Propane Public Fueling Stations

A C Propane Company

296 S California Avenue
Beaumont, CA 92223
(951) 769-0227

U-Haul

314 E 6th Street
Corona, CA 92879
(951) 736-7811

U-Haul

3600 Van Buren Boulevard
Riverside, CA 92503
(951) 688-7672

U-Haul

380 N State Street
Hemet, CA 92543
(951) 652-6802

U-Haul

1834 Spruce Street
Riverside, CA 92507
(951) 369-0384

Air Quality Factoid: On average, Americans spend 8 billion hours per year in traffic.

Alternative Technologies

Hybrid Electric Technology

Hybrid vehicles feature a small fuel-efficient gas engine combined with an electric motor that assists the engine when accelerating. The electric motor is powered by batteries that recharge automatically while you drive.

Hybrids can get up to 55 to 60 miles per gallon in the city, using far less gasoline than conventional cars, and can be registered with the DMV for carpool access.

Hybrid Electric Vehicles



2006 Ford Motor Co.

City MPG: 36 Hwy MPG: 31
MSRP for Hybrid model: \$27,515
Transmission/Engine: ECVT Duratec I-4
Atkinson Cycle 2.3L



2006 Honda Civic Hybrid

City MPG: 49 Hwy MPG: 51
MSRP for Hybrid model: \$21,850
Transmission/Engine: CVT 8-Valve
SOHC i-vtec 1.3 L



2006 Toyota Prius

City MPG: 60 Hwy MPG: 51
MSRP for Hybrid model: Unavailable
Transmission/Engine: ECVT (DOHC) 16 Valve with
(VVT-i) and electric permanent magnet 1.5 L



2006 Toyota Lexus RX 400h

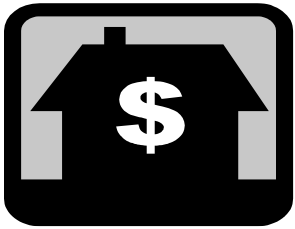
City MPG: 33 Hwy MPG: 28
MSRP for Hybrid model: \$49,060
Transmission/Engine: ECVT 3.3 L

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Propane Fuel Providers



Jerry Pennington
(951) 279-8633

Air Quality Factoid: Schwan's, a restaurant quality frozen food delivery company, has had all of their delivery trucks converted from gasoline fuel to dedicated propane systems. These trucks displace over 300,000 gallons of gasoline each year! Call Schwan's at (888) SCHWANS (724-9267) to receive a catalog and have all your favorite foods delivered right to your door.



Bio Diesel (B20)

Average National Price: \$2.91 per gallon

The term biodiesel refers to a fuel made from refined vegetable oils or animal fats. It does not contain petroleum. It is usually combined with diesel fuel to create biodiesel blends, based on the percentage of biodiesel (e.g., B10 or B20 would be 10 or 20 percent biodiesel, respectively). Another unique feature of this fuel is its distinct odor of something cooking as it burns in vehicles.

Bio-diesel is being used in both public and private fleet vehicles because it allows those fleets to be more environmentally friendly and offers a reduction in some emissions without requiring modifications to the vehicle.

Currently, the California Air Resources Board is conducting research to determine the potential impacts of biodiesel on motor vehicle emissions in California. Past testing indicates that toxic particles are reduced substantially with biodiesel blends, while slight increases in NOx emissions may occur.

Hydrogen

Average National Price: Not Yet Determined

Hydrogen (H₂) will play an important role in developing sustainable transportation in the United States, because in the future it may be produced in virtually unlimited quantities using renewable resources.

Widespread use of hydrogen as an energy source in this country could help address concerns about energy security, global warming, and air quality. Fuel cells have the potential to transform the way our nation is powered by offering a cleaner, more efficient alternative for motorists in our country.

Hydrogen fuel and vehicles are in their testing process and is not yet certified in the State of California.

