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U.S. Environmental Protection Agency
National Vehicle and Fuel Emissions Laboratory

Annual Emissions and Fuel Consumption for an "Average" Passenger Car[1]

Pollutant	Problem	Amount[2] per mile (mi)	Miles[3]	Calculation	Pollution/Fuel Consumption[4]
Hydrocarbons	Urban ozone (smog) Air toxics	2.9 grams (g)	12,500	2.9 g / mi X 12,500 mi X 1 lb / 454 g	= **80 pounds of hydrocarbons**
Carbon Monoxide	Poisonous gas	22 grams	12,500	22 g / mi X 12,500 mi X 1 lb / 454 g	**= 606 pounds of carbon monoxide**
Nitrogen Oxides	Urban ozone (smog) Acid rain	1.5 grams	12,500	1.5 g / mi X 12,500 mi X 1 lb / 454 g	= **41 pounds of nitrogen oxides**
Carbon Dioxide	Global warming	0.8 pound (lb)	12,500	0.8 lb / mi X 12,500 mi	**= 10,000 pounds of carbon dioxide**
Gasoline	Imported oil	0.044 gallon	12,500	0.044gallon / mi X 12,500 mi	= **550 gallons of gasoline**

Notes:

1. These are averages. Individual vehicles may travel more or less miles and may emit more or less pollution per mile than indicated here. Emission factors and pollution / fuel consumption totals may differ slightly from original sources due to rounding.
2. The emission factors used here come from standard EPA emission models. They assume an "average," properly maintained car on the road in 1997, operating on typical gasoline on a summer day (72-96^{0}F). Emissions may be higher in very hot or very cold weather.
3. Average annual mileage source: EPA Office of Mobile Sources Assessment and Modeling Division.
4. Fuel consumption is based on average in-use passenger car fuel economy of 22.5 miles per gallon. Source: US DOT / FHA, Highway Statistics 1995.

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Annual Emissions and Fuel Consumption for an "Average" Light Truck[1]

** "Light trucks" include popular passenger vehicles such as pickups, vans, minivans, and sports-utility vehicles **

Pollutant	Problem	Amount[2] per mile (mi)	Miles[3]	Calculation	Pollution/Fuel Consumption[4]
Hydrocarbons	Urban ozone (smog) Air toxics	3.7 grams(g)	14,000	3.7 g / mi X 14,000 mi X 1 lb / 454 g	= **114 pounds of hydrocarbons**
Carbon Monoxide	Poisonous gas	29 grams	14,000	29 g / mi X 14,000 mi X 1 lb / 454 g	**= 894 pounds of carbon monoxide**
Nitrogen Oxides	Urban ozone (smog) Acid rain	1.9 grams	14,000	1.9 g / mi X 14,000 mi X 1 lb / 454 g	= **59 pounds of nitrogen oxides**
Carbon Dioxide	Global warming	1.2 pound (lb)	14,000	1.2 lb / mi X 14,000 mi	**= 16,800 pounds of carbon dioxide**
Gasoline	Imported oil	0.065 gallon	14,000	0.065 gallon / mi X 14,000 mi	= **915 gallons of gasoline**

Notes:

1. These values are averages. Individual vehicles may travel more or less miles and may emit more or less pollution per mile than indicated here. Emission factors and pollution / fuel consumption totals may differ slightly from original sources due to rounding.
2. The emission factors used here come from standard EPA emission models. They assume an "average," properly maintained truck on the road in 1997, operating on typical gasoline on a summer day (72-96^{0}F). Emissions may be higher in very hot or very cold weather.
3. Average annual mileage source: EPA Office of Mobile Sources Assessment and Modeling Division.
4. Fuel consumption is based on average in-use light truck fuel economy of 15.3 miles per gallon. Source: US DOT / FHA, Highway Statistics 1995.

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