Behind the Numbers

AAA is a federation of motor clubs serving more than 54 million members in the United States and Canada through more than 1,100 offices.

Founded in 1902, AAA is a not-for-profit, fully taxpaying corporation. Its purpose is twofold: give members a full range of automotive and travel-related services and promote the interests of motorists and travelers through legislative and educational activities.

AAA has published *Your Driving Costs* since 1950. That year, driving a car 10,000 miles cost 9 cents a mile, and gasoline sold for 27 cents per gallon.

Methodology Cost Calculations in this edition of Your Driving Costs are comparable to the 2014 version. However, revised finance rate calculations that better reflect real-world trends have set new baselines for finance costs and overall average operating expenses in comparison with previous editions. The process used to estimate annual driving costs is proprietary to AAA. It incorporates standardized criteria designed to model the average AAA member's use of a vehicle for personal transportation over five years and 75,000 miles of ownership. The use of standardized criteria ensures AAA's estimates are consistent when comparing driving costs of different vehicle makes and models. Actual driving costs will vary based on individual driving habits, location, operating conditions and other factors.

Estimates are provided to help consumers make informed vehicle purchase decisions and budget for annual automotive expenses.



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YOUR DRIVING COSTS

How much are you really paying to drive?





How Much Does it Cost to Drive?

Following are average per-mile costs as determined by AAA and the composite average cost for three size categories of sedans:

AAA Average Costs Per Mile

miles per year	10,000	15,000	20,000
small sedan	58.2 cents	44.9 cents	38.0 cents
medium sedan	75.9 cents	58.1 cents	49.0 cents
large sedan	93.3 cents	71.0 cents	59.5 cents
composite average*	75.8 cents	58.0 cents	48.8 cents

* Detailed driving costs for small, medium and large sedans are provided on pages 6 and 7. Driving costs for fourwheel-drive sport utility vehicles and minivans are listed on page 8. Though not part of the composite AAA average, SUV and minivan information is included to help buyers estimate operating costs for those types of vehicles.

Driving costs in each category are based on average costs for five top-selling 2014 models selected by AAA. By size category, they are:

- Small sedan Chevrolet Cruze, Ford Focus, Honda Civic, Hyundai Elantra and Toyota Corolla.
- Medium sedan Chevrolet Malibu, Ford Fusion, Honda Accord, Nissan Altima and Toyota Camry.
- Large sedan Buick LaCrosse, Chrysler 300, Ford Taurus, Nissan Maxima and Toyota Avalon.

Selected SUV models include Chevrolet Traverse, Ford Explorer, Jeep Grand Cherokee, Nissan Pathfinder and Toyota 4Runner, Minivans include Dodge Grand Caravan, Kia Sedona, Honda Odyssey, Nissan Quest and Toyota Sienna.

What's Covered

AAA's analysis covers vehicles equipped with standard features and optional equipment including automatic transmission, air conditioning, power steering, antilock brakes and cruise control, to name a few.

Fuel Fuel costs were based on \$2.855 per gallon, the late-2014 U.S. price from AAA's Fuel Gauge Report, www.FuelGaugeReport.com. Fuel mileage is based on Environmental Protection Agency fuel-economy ratings weighted 60 percent city and 40 percent highway driving.

Maintenance Costs include retail parts and labor for normal, routine maintenance as specified by the vehicle manufacturer. They also include the price of a comprehensive extended warranty with one warranty claim deductible of \$100 and other wear-and-tear items that can be expected to require service during five years of operating the vehicle. Sales tax is included on a national average basis.

Tires Costs are based on the price of one set of replacement tires of the same quality, size and rating as those that came with the vehicle. Mounting, balancing and sales tax also are included.

Insurance AAA based its insurance costs on a full-coverage policy for a married 47-year-old male with a good driving record, living in a small city and commuting three to 10 miles daily to work. The policy includes \$100,000/\$300,000 coverage with a \$500 deductible for collision and a \$100 deductible for comprehensive coverage.

License. Registration and Taxes Costs include all governmental taxes and fees payable at time of purchase, as well as fees due each year to keep the vehicle licensed and registered. Costs are computed on a national average basis.

Depreciation Depreciation is based on the difference between new-vehicle purchase price and estimated trade-in value at the end of five years.

Finance Costs are based on a five-year loan, with 10 percent down, at the national average interest rate for five credit rating categories weighted by market share. The loan amount includes taxes and the first year's license fees, both computed on a national average basis.



Figuring Your Costs

To figure your fuel cost, begin with a full tank of fuel and write down the odometer reading. Each time you fill up, note the number of gallons, how much you pay and the odometer reading. These figures can then be used to calculate average miles per gallon and cost of fuel per mile. For example:

Gas Cost Per Mile

galllons	cost*	odometer
full tank		8,850
12.4	\$35.40	9,136
9.5	\$27.12	9,355
15.7	\$44.82	9,717
37.6	\$107.35	9,717
		-8,850

miles driven = 867

miles per gallon: 867 ÷ 37.6 = 23.1 mpg gas cost per mile: \$107.35 ÷ 867 = 12.38 cents

^{*} price per gallon \$2.855



To determine your driving costs accurately, keep personal records on all the costs listed below. Use this worksheet to figure your total cost to drive.

Annual Cost Per Mile

costs	yearly totals
operating costs	
gas per mile	
total miles driven	×
total gas	=
maintenance	<u> </u>
tires	. +
total operating costs	T =
ownership costs	
depreciation	
insurance	+
taxes	+
license and registration	<u> </u>
finance charges	<u> </u>
total ownership costs	+ =
other costs	
(parking, tolls, washing, etc.)	+
(parking, totts, washing, etc.)	· —
total driving costs	
total miles driven	<u>•</u>
	_
cost per mile	_

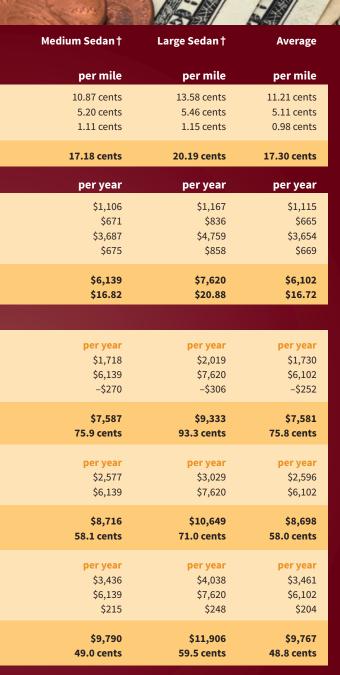
Driving Costs

Small Sedan†

Operating Costs	per mile
gas	9.18 cents
maintenance	4.68 cents
tires	0.68 cents
cost per mile	14.54 cents
Ownership Costs	per year
full-coverage insurance	\$1,071
license, registration, taxes	\$489
depreciation (15,000 miles annually)	\$2,515
finance charge	\$473
cost per year	\$4,548
cost per day	\$12.46
Total Cost Per Mile	
10,000 total miles per year cost per mile x 10,000 miles cost per day x 365 days decreased depreciation**	per year \$1,454 \$4,548 -\$180
total cost per year	\$5,822
total cost per mile*	58.2 cents
15,000 total miles per year	per year
cost per mile x 15,000 miles	\$2,181
cost per day x 365 days	\$4,548
total cost per year	\$6,729
total cost per mile*	44.9 cents
20,000 total miles per year cost per mile x 20,000 miles cost per day x 365 days increased depreciation***	per year \$2,908 \$4,548 \$150
total cost per year	\$7,606
total cost per mile*	38.0 cents

total cost per year ÷ total miles per year

decreased depreciation for mileage under 15,000 miles annually averaged over 5 years



^{***} increased depreciation for mileage over 15,000 miles annually averaged over 5 years

[†] see page 2 for a listing of vehicle makes and models used for driving cost calculations

Driving Costs

	4WD Sport Utility Vehicle†	Minivan†
Operating Costs	per mile	per mile
gas maintenance tires	14.60 cents 5.65 cents 1.38 cents	13.65 cents 5.19 cents 0.84 cents
cost per mile	21.6 cents	19.7 cents

Ownership Costs	per year	per year
full-coverage insurance	\$1,058	\$999
license, registration, taxes depreciation (15,000 miles annually)	\$827 \$4,646	\$688 \$4,039
finance charge	\$848	\$694
cost per year cost per day	\$7,379 \$20.22	\$6,420 \$17.59

Total Cost Per Mile

10,000 miles a year cost per mile x 10,000 miles cost per day x 365 days decreased depreciation**	per year \$2,163 \$7,379 -\$282	per year \$1,968 \$6,420 -\$270
total cost per year	\$9,260	\$8,118
total cost per mile*	92.6 cents	81.2 cents
15,000 miles a year	per year	per year
cost per mile x 15,000 miles	\$3,245	\$2,952
cost per day x 365 days	\$7,379	\$6,420
	• *	
total cost per year	\$10,624	\$9,372
total cost per mile*	70.8 cents	62.5 cents
total cost per year		\$9,372

- total cost per year + total miles per year
- decreased depreciation for mileage under 15,000 miles annually averaged over 5 years
- *** increased depreciation for mileage over 15,000 miles annually averaged over 5 years
 - † see page 2 for a listing of vehicle makes and models used for driving cost calculations



Vehicle Maintenance

Driving costs also are affected by how well your vehicle runs. Performing regular maintenance can ensure more efficient vehicle operation and help prevent costly repairs down the road. Below are general checks to make sure your vehicle stays in tip-top shape. Read your owner's manual for more detailed information on your vehicle's specific requirements. When performing any do-it-yourself maintenance, always be sure to take proper safety precautions.

Fluids

- Engine oil: Lubricates and cools the engine while cleaning internal parts. Running your car when it's low on oil can cause serious engine damage. Check the oil level at least once a month.
- Coolant: Prevents engine freeze-up in winter and boil-over in summer while protecting the cooling system from rust and corrosion. Check the coolant level at each oil change.
- Brake fluid: Critical to proper performance of the vehicle's braking system. Check at each oil change.
- Transmission fluid: Helps transfer engine power to the wheels, lubricates internal parts, maintains seals and acts as a coolant. Check the level at each oil change.
- Power steering fluid: Transfers hydraulic pressure to reduce driver steering effort. Check at each oil change.
- Gasoline: Follow vehicle manufacturer octane rating recommendations to ensure maximum fuel efficiency and prevent damaging engine knock.

Air Filter Your vehicle's air filter captures dirt particles and ensures proper airflow to the engine. Inspect the filter at every oil change and replace as needed.

Belts Most vehicles today use a single serpentine belt to operate under-hood accessories such as the alternator. However, V-belts still are used in some applications. Inspect all belts at every oil change and replace when you spot signs of wear such as glazing or cracking.

Hoses Hoses circulate vital liquids such as engine coolant, transmission fluid and power steering fluid. Inspect hoses at every oil change and repair or replace any that show signs of wear or leakage.



Battery The battery supplies power to the starter motor, acts as a voltage stabilizer and makes up for any shortfall when the alternator can't meet the vehicle's electrical needs. Inspect battery cable connections at every oil change and clean as needed. When servicing a battery, always wear eye protection and gloves.

Tires As the only part of your vehicle in contact with the road, tires are integral to safety and ride comfort. For optimum performance, tires must have adequate tread depth and be properly inflated. Inspect tires and check inflation pressures at least once a month.

AAA offers several resources to complement information found in your owner's manual. They include:

- **AAA.com:** Provides a variety of vehicle maintenance and operating tips. Online content varies by AAA club.
- AAA Approved Auto Repair: The Approved Auto Repair network includes more than 7.100 shops across North America that are visited regularly and inspected annually to ensure they meet AAA's rigorous quality standards and deliver exceptional service and value. AAA members using them receive special discounts, written repair estimates, free maintenance inspections, minimum 24-month/24,000-mile parts and labor warranties, AAA arbitration in repair disputes and priority service when their vehicles are towed in following a breakdown.
- **AAA ShopLocator:** Available in most areas, this AAA.com search tool helps users locate nearby AAA Approved Auto Repair facilities and provides lists of services, hours and other helpful information.
- **AAA AutoManager:** This free AAA.com program sends users e-mail reminders of scheduled vehicle service requirements and due dates for vehicle payments and insurance premiums. It also provides vehicle recall notifications and helps owners track service histories. Online content varies by club.