









Clean Car Roll-back

Estimated costs for American families if U.S. climate pollution and fuel economy standards are relaxed

July 20, 2018



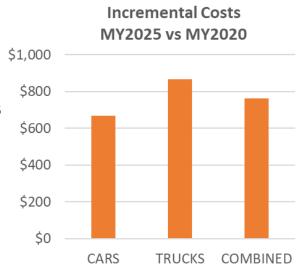
U.S. Climate Pollution and Fuel Economy Standards Save Families Money

- On May 30, 2018 the EPA and NHTSA forwarded to OMB a draft proposal to dramatically roll back the current U.S. climate pollution and Corporate Average Fuel Economy (CAFE) program. The current standards require gradual climate pollution reductions every year, which will spur increases in fuel efficiency for all new vehicles sold between now and 2025
- The exact details of this proposal are unknown, but it reportedly recommends capping U.S. climate pollution and fuel economy targets at model year 2020 – with no further increases in later years
- This analysis indicates that rolling back the current U.S. climate pollution and fuel economy standards in this way will cost the average American family as much as \$500 per year after 2025
- Families in every state stand to lose money due to higher annual gasoline costs but those in some of the lowest income states will likely lose the most because they do more driving every year
- More stringent standards also protect families against rising gas prices keeping the model year 2025 standards will save the average U.S. family an additional \$85/year for every \$0.50/gallon increase in gasoline prices
- Compared to vehicles that meet Model Year 2020 CAFE standards, life-time savings from vehicles that meet the current Model Year 2025 standards will be at least \$2,800 more for cars and at least \$4,500 more for light trucks



How do Families Save Money with Clean Cars? Monthly fuel cost savings outweigh increased vehicle costs

More stringent U.S. climate pollution and fuel economy standards will add \$600 - \$800 to vehicle purchase costs...



FAMILIES WILL
START SAVING
MONEY RIGHT AWAY
- AND CONTINUE
SAVING AS LONG AS
THEY OWN THE
VEHICLE

.... but monthly fuel cost savings will be greater than increased monthly car and insurance payments

One New Vehicle	Per Month		
Incr car payment ¹	\$13.80		
Fuel Savings	(\$22.03)	Per year	6 years
NET SAVINGS	(\$8.23)	(\$98.76)	(\$592.56)
 Incremental car payment includes sales tax and additional insurance cost Does not include potential increase in 6-year resale value due to higher fuel economy 			Typical life of new car loan ²

Based on \$761 incremental purchase cost, 6 year new car loan at 4.25%, fuel cost \$3.19/gallon, and monthly fuel savings of 6.9 gallons



Annual Savings for the Average U.S. Family with Clean Cars

The average U.S. family owns two cars and drives 23,030 miles per year.

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over \$500/year* and *over \$3,000* during the time they own MY2025 vehicles¹, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$85 for every \$0.50/gallon increase in gasoline prices

Net Savings ² AVERAGE U.S. FAMILY (2017\$)		
Reference High Oil Price		
One Year	\$202	\$512
6 Years ³ Typical time a family owns a car	\$1,212	\$3,072

³ 6-year savings does not include potential increase in 6-year resale value due to higher fuel economy.



¹ Annual savings could be even higher for the next new vehicles they purchased, if U.S. Climate pollution and fuel economy standards continued to increase each year.

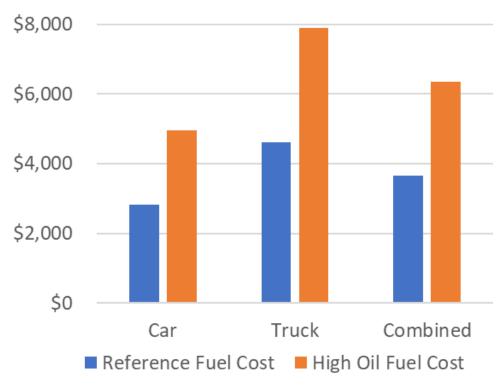
² Based on gasoline price projections from U.S. Energy Information Administration. Reference Case price averages \$3.19/gal, High Oil Price Case price averages \$5.02/gallon between 2025 and 2031 (constant 2017 dollars)

Life-time Savings for MY2025 Clean Car Vehicles

Over their entire life (typically multiple owners) cars on average travel over 184,000 miles and light trucks travel more than 214,000 miles.

Compared to MY2020 vehicles, over their life-time MY2025 cars could save up to \$5,000 and MY2025 trucks could save up to \$8,000, depending on fuel costs.







Families in Some Lowest Income States Could Save Most

- Family savings will vary based on how many cars they own, how much they drive, and how expensive gasoline is
- Families in some of the states with lowest median income on average own more cars and drive more miles than people in wealthier states – the average family in these states will suffer more from rising gas prices, and will save the most from more stringent climate pollution and fuel economy standards
- Examples of states with lower than average median income and higher than average family savings:
 - √ Mississippi
 - ✓ Alabama
 - ✓ New Mexico
 - √ Oklahoma
 - ✓ North Carolina
 - √ Florida
 - ✓ Indiana
 - ✓ Georgia



Annual Savings for Average Mississippi Family

The average **Mississippi** family owns 1.8 cars and drives 32,209 miles per year.

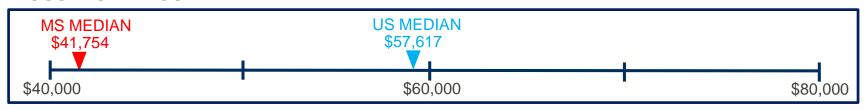
For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *as high as \$800/year* and *almost \$4,800* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$118 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE MS FAMILY (2017\$)		
Reference High Oil Price		
One Year	\$401	\$800
6 Years ¹ Typical time a family owns a car	\$2,405	\$4,79 9

Fuel costs in Mississippi are 92% of the US average

HOUSEHOLD INCOME







¹ Does not include potential increase in 6-year resale value due to higher fuel economy

Annual Savings for Average Alabama Family

The average Alabama family owns 2.7 cars and drives 31,786 miles per year.

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *almost \$630/year* and *almost \$3,800* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$117 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE AL FAMILY (2017\$)		
Reference High Oil Price		
One Year	\$236	\$629
6 Years ¹ Typical time a family owns a car	\$1,414	\$3,777

Fuel costs in Alabama are 92% of the US average

HOUSEHOLD INCOME







¹ Does not include potential increase in 6-year resale value due to higher fuel economy

Annual Savings for Average New Mexico Family

The average New Mexico family owns 2.3 cars and drives 29,783 miles per year.

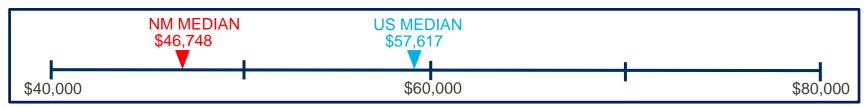
For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *almost \$670/year* and *almost \$4,000* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$109 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE NM FAMILY (2017\$)		
Reference High Oil Price		
One Year	\$282	\$666
6 Years ¹ Typical time a family owns a car	\$1,690	\$3,994

Fuel costs in New Mexico are 96% of the US average

HOUSEHOLD INCOME







¹ Does not include potential increase in 6-year resale value due to higher fuel economy

Annual Savings for Average Oklahoma Family

The average Oklahoma family owns 2.2 cars and drives 29,243 miles per year.

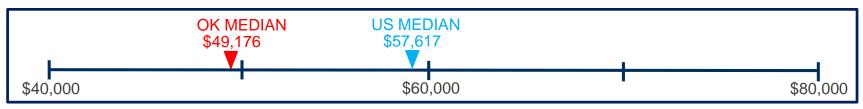
For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over \$620/year* and *over \$3,700* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$107 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE OK FAMILY (2017\$)		
Reference High Oil Price		
One Year	\$260	\$621
6 Years ¹ Typical time a family owns a car	\$1,561	\$3,725

Fuel costs in Oklahoma are 92% of the US average

HOUSEHOLD INCOME







¹ Does not include potential increase in 6-year resale value due to higher fuel economy

Annual Savings for Average North Carolina Family

The average North Carolina family owns 1.9 cars and drives 25,365 miles per year.

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over* \$600/year and *over* \$3,600 during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$93 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE NC FAMILY (2017\$)		
Reference High Oil Price		
One Year	\$272	\$611
6 Years ¹ Typical time a family owns a car	\$1,630	\$3,664

Fuel costs in North Carolina are 99% of the US average

HOUSEHOLD INCOME







¹ Does not include potential increase in 6-year resale value due to higher fuel economy

Annual Savings for Average Florida Family

The average Florida family owns 1.9 cars and drives 24,364 miles per year.

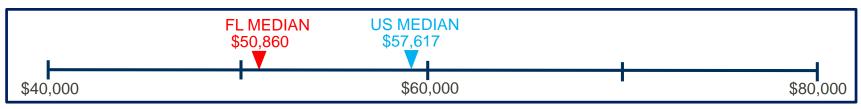
For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over \$570/year* and *over \$3,400* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$90 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE FL FAMILY (2017\$)		
Reference High Oil Price		
One Year	\$247	\$573
6 Years ¹ Typical time a family owns a car	\$1,483	\$3,437

Fuel costs in Florida are 99% of the US average

HOUSEHOLD INCOME







¹ Does not include potential increase in 6-year resale value due to higher fuel economy

Annual Savings for Average Indiana Family

The average Indiana family owns 2.2 cars and drives 28,230 miles per year.

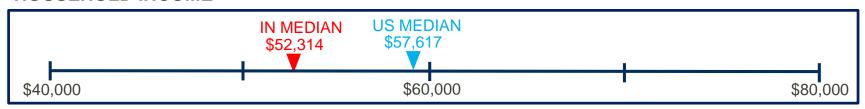
For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *as high as \$650/year* and *almost \$3,900* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$104 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE IN FAMILY (2017\$)		
Reference High Oil Price		
One Year	\$279	\$650
6 Years ¹ Typical time a family owns a car	\$1,676	\$3,898

Fuel costs in Indiana are 97% of the US average

HOUSEHOLD INCOME







¹ Does not include potential increase in 6-year resale value due to higher fuel economy

Annual Savings for Average Georgia Family

The average Georgia family owns 2.1 cars and drives 27,670 miles per year.

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *almost \$670/year* and *over \$3,900* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$102 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE GA FAMILY (2017\$)		
Referenc High Oil e Price		
One Year	\$296	\$666
6 Years ¹ Typical time a family owns a car	\$1,775	\$3,994

Fuel costs in Georgia are 99% of the US average

HOUSEHOLD INCOME







¹ Does not include potential increase in 6-year resale value due to higher fuel economy

APPENDIX



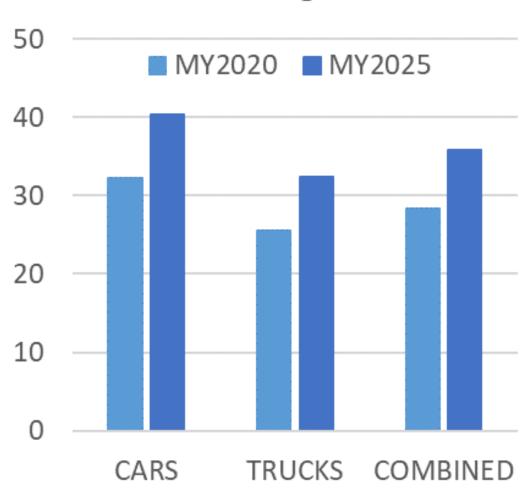
REFERENCES

Metric	Data Sources & Methodology
Incremental Vehicle Purchase Costs	 EPA's OMEGA model was used to calculate fleet average incremental costs, for vehicles meeting MY2020 and MY2025 CAFE standards, compared to MY2015 vehicles OMEGA technology cost input assumptions were taken from the ICCT report: "Efficiency Technology and Cost Assessment for U.S. 2020-2025 Light-Duty Vehicles", March 2017
Incremental Vehicle Ownership Costs	 Incremental vehicle purchase costs were increased by 5.46% (sales tax) and the incremental monthly loan payment was calculated assuming a 72 month new car loan at 4.25% annual interest rate. Incremental annual insurance costs of 1.8% of incremental purchase price were added to the incremental loan payment.
Vehicle Fuel Economy	 OMEGA results for fleet average CO₂ emissions (g/mi) were converted to gallons/mi and miles/gallon (MPG) assuming 8,788 g/gallon of CO₂. These MPG values, which represent CAFE compliance levels, were multiplied by 80%, to estimate "real world" fuel economy of compliant vehicles, consistent with EPA/NHTSA test data.
Fuel Costs	 Energy Information Administration, Annual Energy Outlook 2018, Table 3, Energy Costs by Sector and Source, Transportation – Motor Gasoline; Reference Case and High Oil Cost Case For state-level analyses, regional fuel costs from Tables 3.1 – 3.9 were used to calculate state fuel costs (\$/gal) relative to US average fuel costs, for both the reference case and high oil price cases
Vehicle Usage	 US-average and state-average annual miles per vehicle, and vehicles per household, were calculated based on U.S. Federal Highway Administration data on vehicles by state (Table MV-1, 2016) and vehicle miles by state (Table VM-2, 2016) and U.S. Census Bureau data on the number of households by state (occupied housing units, 2016) Life-time mileage per vehicle is assumed to be 184,789 miles for cars, and 214,997 miles for light trucks, consistent with assumptions used by EPA and NHTSA



Projected Fleet Average Fuel Economy (MPG) Current CAFE standards

Fleet Average MPG

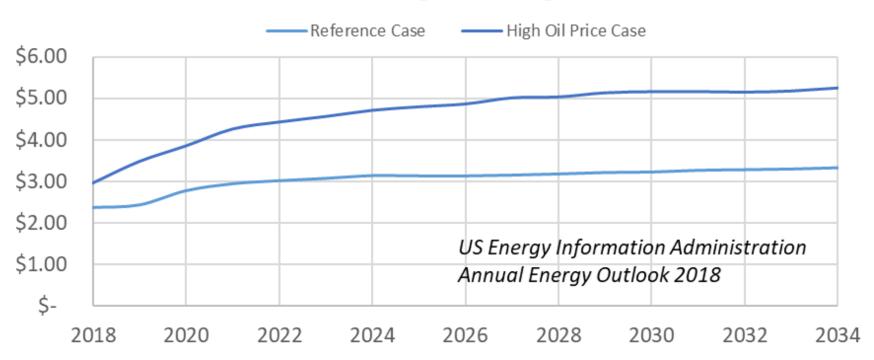


- Based on EPA's OMEGA model
- This represents expected "real world" fuel economy (EPA window sticker), which is 20% lower than fuel economy measured during CAFE compliance testing



Gasoline Price Projections

Projected Gasoline Price US average 2017 \$/gallon



This chart shows projected prices in constant 2017 dollars, without inflation. Nominal gasoline prices (including inflation) are projected to reach \$4.90/gallon in 2034 under the Reference case, and \$8.71/gallon under the High Oil Price case





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Clean Car Roll-back

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APPENDIX - STATE LEVEL ANALYSIS

July 12, 2018



U.S. Climate Pollution and Fuel Economy Standards Save Families Money

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- Families in every state stand to lose money due to higher annual gasoline costs but those in some of the lowest income states will likely lose the most because they do more driving every year
- More stringent standards also protect families against rising gas prices keeping the model year 2025 standards will save the average US family an additional \$85/year for every \$0.50/gallon increase in gasoline prices
- Compared to vehicles that meet Model Year 2020 CAFE standards, life-time savings from vehicles that meet the current Model Year 2025 standards will be at least \$2,800 more for cars and at least \$4,500 more for light trucks



Average Family Savings With Clean Cars for All 50 States



Annual Savings for Average Alabama Family

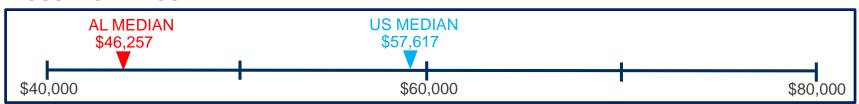
The average Alabama family owns 2.7 cars and drives 31,786 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *almost* \$630/year and *almost* \$3,800 during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$117 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE AL FAMILY (2017\$)		
Reference High Oil Price		
One Year	\$236	\$629
6 Years ¹ Typical time a family owns a car	\$1,414	\$3,777

Fuel costs in Alabama are 92% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



Annual Savings for Average Alaska Family

The average Alaska family owns 2.9 cars and drives 17,390 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *almost* \$290/year and over \$1,700 during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$64 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE AK FAMILY (2017\$)			
Reference High Oil Price			
One Year	\$6	\$289	
6 Years ¹ Typical time a family owns a car	\$39	\$1,732	

Fuel costs in Alaska are 120% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



Annual Savings for Average Arizona Family

The average Arizona family owns 2.1 cars and drives 22,915 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over* \$460/year and *over* \$2,700 during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$84 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE AZ FAMILY (2017\$)			
Reference High Oil Price			
One Year	\$165	\$461	
6 Years ¹ Typical time a family owns a car	\$993	\$2,766	

Fuel costs in Arizona are 96% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



Annual Savings for Average Arkansas Family

The average Arkansas family owns 2.2 cars and drives 26,707 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over \$530/year* and *almost \$3,200* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$98 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE AR FAMILY (2017\$)			
Reference High Oil Price			
One Year	\$202	\$531	
6 Years ¹ Typical time a family owns a car	\$1,210	\$3,187	

Fuel costs in Arkansas are 92% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



Annual Savings for Average California Family

The average California family owns 2.1 cars and drives 23,287 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over \$690/year* and *over \$4,100* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$86 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE CA FAMILY (2017\$)			
Reference High Oil Price			
One Year	\$313	\$691	
6 Years ¹ Typical time a family owns a car	\$1,880	\$4,147	

Fuel costs in California are 120% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



Annual Savings for Average Colorado Family

The average Colorado family owns 2.2 cars and drives 21,393 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *almost \$400/year* and *almost \$2,400* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$79 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE CO FAMILY (2017\$)		
	Reference	High Oil Price
One Year	\$123	\$399
6 Years ¹ Typical time a family owns a car	\$738	\$2,394

Fuel costs in Colorado are 96% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



Annual Savings for Average Connecticut Family

The average Connecticut family owns 2.0 cars and drives 20,629 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over \$460/year* and *almost \$2,800* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$76 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE CT FAMILY (2017\$)			
Reference High Oil Price			
One Year	\$178	\$466	
6 Years ¹ Typical time a family owns a car	\$1,068	\$2,798	

Fuel costs in Connecticut are 104% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



Annual Savings for Average Delaware Family

The average Delaware family owns 2.5 cars and drives 24,704 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over \$480/year* and *over \$2,900* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$91 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE DE FAMILY (2017\$)			
Reference High Oil Price			
One Year	\$154	\$484	
6 Years ¹ Typical time a family owns a car	\$925	\$2,906	

Fuel costs in Delaware are 99% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



Annual Savings for Average Florida Family

The average Florida family owns 1.9 cars and drives 24,364 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over \$570/year* and *over \$3,400* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$90 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE FL FAMILY (2017\$)		
Reference High Oil Price		
One Year	\$247	\$573
6 Years ¹ Typical time a family owns a car	\$1,483	\$3,437

Fuel costs in Florida are 99% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



Annual Savings for Average Georgia Family

The average Georgia family owns 2.1 cars and drives 27,670 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *almost \$670/year* and *over \$3,900* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$102 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE GA FAMILY (2017\$)		
Reference High Oil Price		
One Year	\$296	\$666
6 Years ¹ Typical time a family owns a car	\$1,775	\$3,994

Fuel costs in Georgia are 99% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



Annual Savings for Average Hawaii Family

The average Hawaii family owns 2.9 cars and drives 20,167 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over* \$420/year and *over* \$2,500 during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$74 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE HI FAMILY (2017\$)		
Reference High Oil Price		
One Year	\$97	\$424
6 Years ¹ Typical time a family owns a car	\$581	\$2,544

Fuel costs in Hawaii are 120% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



Annual Savings for Average Idaho Family

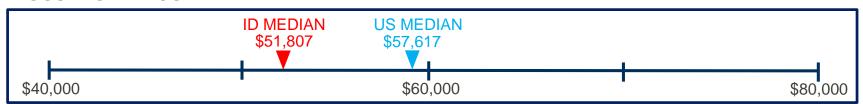
The average Idaho family owns 2.7 cars and drives 24,281 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over \$400/year* and *almost \$2,500* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$89 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE ID FAMILY (2017\$)			
Reference High Oil Price			
One Year	\$95	\$408	
6 Years ¹ Typical time a family owns a car	\$568	\$2,446	

Fuel costs in Idaho are 96% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



Annual Savings for Average Illinois Family

The average Illinois family owns 2.0 cars and drives 19,574 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over* \$370/year and *over* \$2,200 during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$72 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE IL FAMILY (2017\$)			
Reference High Oil Price			
One Year	\$116	\$373	
6 Years ¹ Typical time a family owns a car	\$696	\$2,237	

Fuel costs in Illinois are 97% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



Annual Savings for Average Indiana Family

The average Indiana family owns 2.2 cars and drives 28,230 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *as high as* \$650/year and *almost* \$3,900 during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$104 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE IN FAMILY (2017\$)		
	Reference	High Oil Price
One Year	\$279	\$650
6 Years ¹ Typical time a family owns a car	\$1,676	\$3,898

Fuel costs in Indiana are 97% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



Annual Savings for Average Iowa Family

The average lowa family owns 2.6 cars and drives 22,651 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *almost* \$350/year and *almost* \$2,100 during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$83 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE IA FAMILY (2017\$)		
Reference High Oil Price		
One Year	\$63	\$348
6 Years ¹ Typical time a family owns a car	\$377	\$2,089

Fuel costs in Iowa are 94% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



Annual Savings for Average Kansas Family

The average Kansas family owns 2.1 cars and drives 24,659 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over \$500/year* and *over \$3,000* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$91 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE KS FAMILY (2017\$)		
	Reference	High Oil Price
One Year	\$193	\$504
6 Years ¹ Typical time a family owns a car	\$1,161	\$3,025

Fuel costs in Kansas are 94% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



Annual Savings for Average Kentucky Family

The average Kentucky family owns 2.2 cars and drives 25,000 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *almost \$480/year* and *over \$2,800* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$92 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE KY FAMILY (2017\$)		
	Reference	High Oil Price
One Year	\$167	\$477
6 Years ¹ Typical time a family owns a car	\$1,003	\$2,861

Fuel costs in Kentucky are 92% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



Annual Savings for Average Louisiana Family

The average Louisiana family owns 2.1 cars and drives 24,970 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over* \$500/year and *over* \$3,000 during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$92 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE LA FAMILY (2017\$)		
	Reference	High Oil Price
One Year	\$193	\$501
6 Years ¹ Typical time a family owns a car	\$1,161	\$3,009

Fuel costs in Louisiana are 92% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



Annual Savings for Average Maine Family

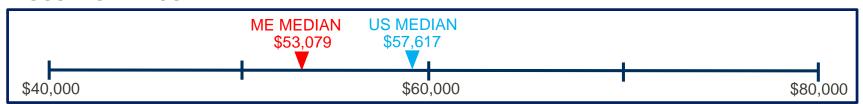
The average Maine family owns 2.0 cars and drives 23,252 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over \$560/year* and *almost \$3,400* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$85 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE ME FAMILY (2017\$)		
	Reference	High Oil Price
One Year	\$238	\$563
6 Years ¹ Typical time a family owns a car	\$1,425	\$3,375

Fuel costs in Maine are 104% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



Annual Savings for Average Maryland Family

The average Maryland family owns 1.7 cars and drives 23,221 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over* \$560/year and almost \$3,400 during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$85 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE MD FAMILY (2017\$)		
	Reference	High Oil Price
One Year	\$255	\$565
6 Years ¹ Typical time a family owns a car	\$1,528	\$3,390

Fuel costs in Maryland are 99% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



Annual Savings for Average Massachusetts Family

The average Massachusetts family owns 1.8 cars and drives 20,152 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over \$470/year* and *over \$2,800* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$74 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE MA FAMILY (2017\$)		
	Reference	High Oil Price
One Year	\$189	\$471
6 Years ¹ Typical time a family owns a car	\$1,135	\$2,825

Fuel costs in Massachusetts are 104% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



Annual Savings for Average Michigan Family

The average Michigan family owns 1.9 cars and drives 22,603 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *almost* \$490/year and over \$2,900 during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$83 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE MI FAMILY (2017\$)		
Reference High Oil Price		
One Year	\$193	\$489
6 Years ¹ Typical time a family owns a car	\$1,157	\$2,936

Fuel costs in Michigan are 97% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



Annual Savings for Average Minnesota Family

The average Minnesota family owns 2.2 cars and drives 24,084 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over \$460/year* and *almost \$2,800* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$88 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE MN FAMILY (2017\$)		
	Reference	High Oil Price
One Year	\$159	\$462
6 Years ¹ Typical time a family owns a car	\$952	\$2,772

Fuel costs in Minnesota are 94% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



Annual Savings for Average Mississippi Family

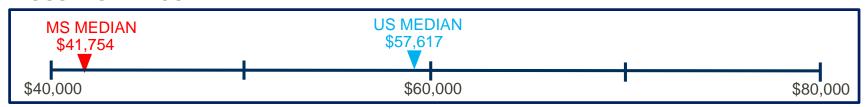
The average **Mississippi** family owns 1.8 cars and drives 32,209 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *as much as* \$800/year and *almost* \$4,800 during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$118 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE MS FAMILY (2017\$)		
	Reference	High Oil Price
One Year	\$401	\$800
6 Years ¹ Typical time a family owns a car	\$2,405	\$4,799

Fuel costs in Mississippi are 92% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



Annual Savings for Average Missouri Family

The average Missouri family owns 2.1 cars and drives 26,781 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *almost* \$580/year and *almost* \$3,500 during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$98 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE MO FAMILY (2017\$)		
	Reference	High Oil Price
One Year	\$241	\$579
6 Years ¹ Typical time a family owns a car	\$1,447	\$3,472

Fuel costs in Missouri are 94% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



Annual Savings for Average Montana Family

The average Montana family owns 3.2 cars and drives 26,397 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *almost \$400/year* and *almost \$2,400* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$97 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE MT FAMILY (2017\$)		
	Reference	High Oil Price
One Year	\$56	\$396
6 Years ¹ Typical time a family owns a car	\$333	\$2,376

Fuel costs in Montana are 96% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



Annual Savings for Average Nebraska Family

The average Nebraska family owns 2.4 cars and drives 23,696 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over* \$410/year and almost \$2,500 during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$87 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE NE FAMILY (2017\$)		
	Reference	High Oil Price
One Year	\$115	\$414
6 Years ¹ Typical time a family owns a car	\$691	\$2,482

Fuel costs in Nebraska are 94% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



Annual Savings for Average Nevada Family

The average Nevada family owns 2.0 cars and drives 21,995 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over* \$440/year and almost \$2,700 during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$81 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE NV FAMILY (2017\$)		
	Reference	High Oil Price
One Year	\$161	\$444
6 Years ¹ Typical time a family owns a car	\$963	\$2,665

Fuel costs in Nevada are 96% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



Annual Savings for Average New Hampshire Family

The average New Hampshire family owns 2.3 cars and drives 22,290 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *almost \$480/year* and *almost \$2,900* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$82 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE NH FAMILY (2017\$)		
Reference High Oil Price		
One Year	\$168	\$479
6 Years ¹ Typical time a family owns a car	\$1,006	\$2,875

Fuel costs in New Hampshire are 104% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



Annual Savings for Average New Jersey Family

The average New Jersey family owns 2.0 cars and drives 20,992 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over \$480/year* and *almost \$2,900* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$77 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE NJ FAMILY (2017\$)		
	Reference	High Oil Price
One Year	\$185	\$482
6 Years ¹ Typical time a family owns a car	\$1,108	\$2,891

Fuel costs in New Jersey are 105% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



Annual Savings for Average New Mexico Family

The average New Mexico family owns 2.3 cars and drives 29,783 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *almost \$670/year* and *almost \$4,000* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$109 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE NM FAMILY (2017\$)		
	Reference	High Oil Price
One Year	\$282	\$666
6 Years ¹ Typical time a family owns a car	\$1,690	\$3,994

Fuel costs in New Mexico are 96% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



Annual Savings for Average New York Family

The average New York family owns 1.4 cars and drives 15,940 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *almost \$390/year* and *over \$2,300* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$59 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE NY FAMILY (2017\$)		
	Reference	High Oil Price
One Year	\$163	\$389
6 Years ¹ Typical time a family owns a car	\$977	2,331\$

Fuel costs in New York are 105% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



Annual Savings for Average North Carolina Family

The average North Carolina family owns 1.9 cars and drives 25,365 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over \$600/year* and *over \$3,600* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$93 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE NC FAMILY (2017\$)		
Reference High Oil Price		
One Year	\$272	\$611
6 Years ¹ Typical time a family owns a car	\$1,630	\$3,664

Fuel costs in North Carolina are 99% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



Annual Savings for Average North Dakota Family

The average North Dakota family owns 2.6 cars and drives 30,863 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over* \$630/year and *over* \$3,800 during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$113 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE ND FAMILY (2017\$)		
Reference High Oil Price		
One Year	\$245	\$634
6 Years ¹ Typical time a family owns a car	\$1,469	\$3,802

Fuel costs in North Dakota are 94% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



Annual Savings for Average Ohio Family

The average Ohio family owns 2.1 cars and drives 21,958 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over \$440/year* and *over \$2,660* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$81 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE OH FAMILY (2017\$)		
	Reference	High Oil Price
One Year	\$156	\$444
6 Years ¹ Typical time a family owns a car	\$937	\$2,664

Fuel costs in Ohio are 97% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



Annual Savings for Average Oklahoma Family

The average Oklahoma family owns 2.2 cars and drives 29,243 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over \$620/year* and *over \$3,700* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$107 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE OK FAMILY (2017\$)		
	Reference	High Oil Price
One Year	\$260	\$621
6 Years ¹ Typical time a family owns a car	\$1,561	\$3,725

Fuel costs in Oklahoma are 92% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



Annual Savings for Average Oregon Family

The average Oregon family owns 2.1 cars and drives 20,062 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over \$550/year* and *over \$3,300* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$74 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE OR FAMILY (2017\$)		
	Reference	High Oil Price
One Year	\$225	\$551
6 Years ¹ Typical time a family owns a car	\$1,353	\$3,306

Fuel costs in Oregon are 120% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



Annual Savings for Average Pennsylvania Family

The average Pennsylvania family owns 1.9 cars and drives 18,036 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *almost \$380/year* and *almost \$2,300* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$66 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE PA FAMILY (2017\$)		
Reference High Oil Price		
One Year	\$123	\$378
6 Years ¹ Typical time a family owns a car	\$739	\$2,271

Fuel costs in Pennsylvania are 105% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



Annual Savings for Average Rhode Island Family

The average Rhode Island family owns 1.9 cars and drives 16,767 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over \$320/year* and *over \$1,900* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$62 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE RI FAMILY (2017\$)		
Reference High Oil Price		
One Year	\$87	\$321
6 Years ¹ Typical time a family owns a car	\$520	\$1,926

Fuel costs in Rhode Island are 104% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



Annual Savings for Average South Carolina Family

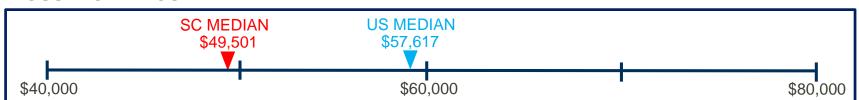
The average South Carolina family owns 2.0 cars and drives 24,327 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over \$550/year* and *over \$3,300* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$89 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE SC FAMILY (2017\$)		
	Reference	High Oil Price
One Year	\$231	\$556
6 Years ¹ Typical time a family owns a car	\$1,384	\$3,334

Fuel costs in South Carolina are 99% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



Annual Savings for Average South Dakota Family

The average South Dakota family owns 2.7 cars and drives 24,782 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over \$400/year* and *over \$2,400* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$91 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE SD FAMILY (2017\$)		
Reference High Oil Price		
One Year	\$96	\$408
6 Years ¹ Typical time a family owns a car	\$577	\$2,450

Fuel costs in South Dakota are 94% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



Annual Savings for Average Tennessee Family

The average Tennessee family owns 2.0 cars and drives 25,697 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *almost \$540/year* and *over \$3,200* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$94 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE TN FAMILY (2017\$)		
Reference High Oil Price		
One Year	\$220	\$539
6 Years ¹ Typical time a family owns a car	\$1,322	\$3,232

Fuel costs in Tennessee are 92% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



Annual Savings for Average Texas Family

The average Texas family owns 2.1 cars and drives 23,445 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over* \$440/year and almost \$2,700 during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$86 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE TX FAMILY (2017\$)		
Reference High Oil Price		
One Year	\$156	\$445
6 Years ¹ Typical time a family owns a car	\$937	\$2,673

Fuel costs in Texas are 92% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



Annual Savings for Average Utah Family

The average Utah family owns 2.2 cars and drives 26,883 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *almost* \$600/year and *almost* \$3,600 during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$99 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE UT FAMILY (2017\$)		
Reference High Oil Price		
One Year	\$245	\$592
6 Years ¹ Typical time a family owns a car	\$1,473	\$3,553

Fuel costs in Utah are 96% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



Annual Savings for Average Vermont Family

The average Vermont family owns 2.2 cars and drives 24,601 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *almost \$600/year* and *over \$3,500* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$90 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE VT FAMILY (2017\$)		
Reference High Oil Price		
One Year	\$240	\$584
6 Years ¹ Typical time a family owns a car	\$1,442	\$3,505

Fuel costs in Vermont are 104% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



Annual Savings for Average Virginia Family

The average Virginia family owns 2.1 cars and drives 23,482 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over \$500/year* and *over \$3,000* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$86 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE VA FAMILY (2017\$)		
Reference High Oil Price		
One Year	\$190	\$504
6 Years ¹ Typical time a family owns a car	\$1,142	\$3,024

Fuel costs in Virginia are 99% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



Annual Savings for Average Washington Family

The average Washington family owns 2.2 cars and drives 19,291 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *almost \$500/year* and *almost \$3,000* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$71 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE WA FAMILY (2017\$)		
Reference High Oil Price		
One Year	\$183	\$496
6 Years ¹ Typical time a family owns a car	\$1,096	\$2,974

Fuel costs in Washington are 120% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



Annual Savings for Average West Virginia Family

The average West Virginia family owns 1.9 cars and drives 23,167 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over \$500/year* and *over \$3,000* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$85 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE WV FAMILY (2017\$)		
	Reference	High Oil Price
One Year	\$219	\$528
6 Years ¹ Typical time a family owns a car	\$1,311	\$3,169

Fuel costs in West Virginia are 99% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



Annual Savings for Average Wisconsin Family

The average Wisconsin family owns 2.1 cars and drives 23,291 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over \$490/year* and *over \$2,900* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$86 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE WI FAMILY (2017\$)		
Reference High Oil Price		
One Year	\$185	\$491
6 Years ¹ Typical time a family owns a car	\$1,110	\$2,943

Fuel costs in Wisconsin are 97% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



Annual Savings for Average Wyoming Family

The average Wyoming family owns 3.3 cars and drives 37,332 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over \$500/year* and *over \$3,000* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by \$137 for every \$0.50/gallon increase in gasoline prices

Net Savings AVERAGE WY FAMILY (2017\$)		
Reference High Oil Price		
One Year	\$287	\$769
6 Years ¹ Typical time a family owns a car	\$1,724	\$4,613

Fuel costs in Wyoming are 96% of the US average



¹ Does not include potential increase in 6-year resale value due to higher fuel economy



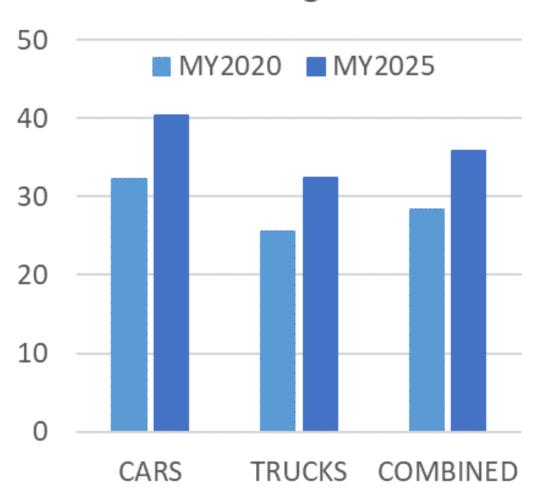
REFERENCES

Metric	Data Sources & Methodology
Incremental Vehicle Purchase Costs	 EPA's OMEGA model was used to calculate fleet average incremental costs, for vehicles meeting MY2020 and MY2025 CAFE standards, compared to MY2015 vehicles OMEGA technology cost input assumptions were taken from the ICCT report: "Efficiency Technology and Cost Assessment for U.S. 2020-2025 Light-Duty Vehicles", March 2017
Incremental Vehicle Ownership Costs	 Incremental vehicle purchase costs were increased by 5.46% (sales tax) and the incremental monthly loan payment was calculated assuming a 72 month new car loan at 4.25% annual interest rate. Incremental annual insurance costs of 1.8% of incremental purchase price were added to the incremental loan payment.
Vehicle Fuel Economy	 OMEGA results for fleet average CO₂ emissions (g/mi) were converted to gallons/mi and miles/gallon (MPG) assuming 8,788 g/gallon of CO₂. These MPG values, which represent CAFE compliance levels, were multiplied by 80%, to estimate "real world" fuel economy of compliant vehicles, consistent with EPA/NHTSA test data.
Fuel Costs	 Energy Information Administration, Annual Energy Outlook 2018, Table 3, Energy Costs by Sector and Source, Transportation – Motor Gasoline; Reference Case and High Oil Cost Case For state-level analyses, regional fuel costs from Tables 3.1 – 3.9 were used to calculate state fuel costs (\$/gal) relative to US average fuel costs, for both the reference case and high oil price cases
Vehicle Usage	 US-average and state-average annual miles per vehicle, and vehicles per household, were calculated based on U.S. Federal Highway Administration data on vehicles by state (Table MV-1, 2016) and vehicle miles by state (Table VM-2, 2016) and U.S. Census Bureau data on the number of households by state (occupied housing units, 2016) Life-time mileage per vehicle is assumed to be 184,789 miles for cars, and 214,997 miles for light trucks, consistent with assumptions used by EPA and NHTSA



Projected Fleet Average Fuel Economy (MPG) Current CAFE standards

Fleet Average MPG

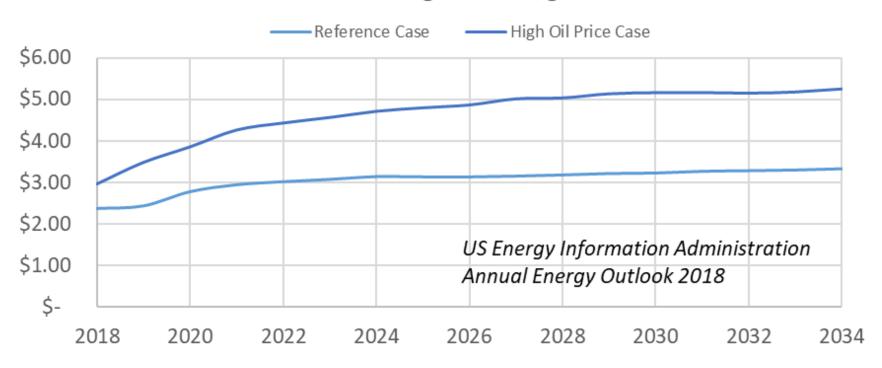


- Based on EPA's OMEGA model
- This represents expected "real world" fuel economy (EPA window sticker), which is 20% lower than fuel economy measured during CAFE compliance testing



Gasoline Price Projections

Projected Gasoline Price US average 2017 \$/gallon



This chart shows projected prices in constant 2017 dollars, without inflation. Nominal gasoline prices (including inflation) are projected to reach \$4.90/gallon in 2034 under the Reference case, and \$8.71/gallon under the High Oil Price case





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