Clean Car Roll-back

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

APPENDIX – STATE LEVEL ANALYSIS

UPDATE August 27, 2019

MJB & A

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

- On Aug. 2, 2018, EPA and NHTSA released a proposed rule that would dramatically roll back the current U.S. climate pollution and Corporate Average Fuel Economy (CAFE) standards. 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 proposal recommends capping U.S. climate pollution and fuel economy targets at model year 2020 levels – 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 $514 per year during the timeframe that they own MY2025 vehicles***
- 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 $90/year for every $0.50/gallon increase in gasoline prices
- Compared to vehicles that meet Model Year 2020 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

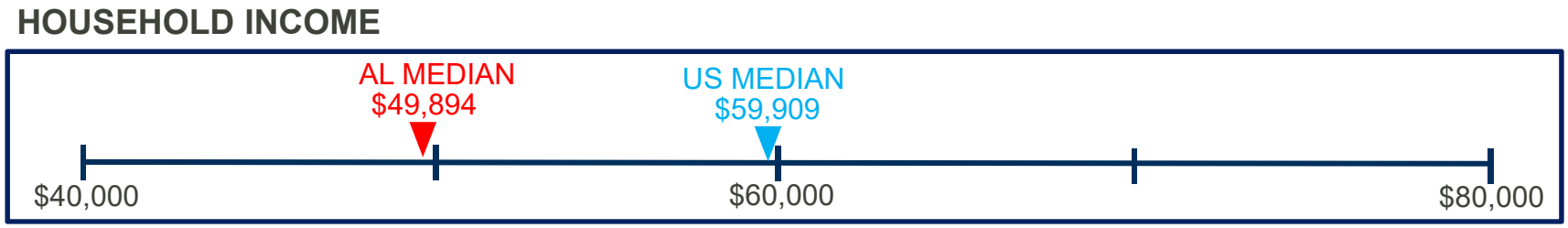
The average Alabama family owns 2.5 cars and drives 34,575 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over $700/year* and *over $4,200* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by $127 for every $0.50/gallon increase in gasoline prices

Net Savings AVERAGE AL FAMILY (2018$)	Reference	High Oil Price
One Year	$313	$705
6 Years [1] *Typical time a family owns a car*	$1,875	$4,232

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*

MJB & A

Annual Savings for Average Alaska Family

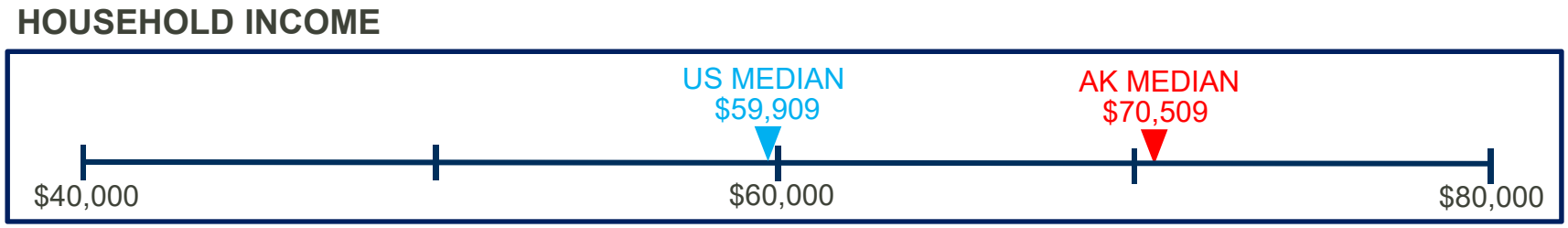
The average Alaska family owns 2.9 cars and drives 19,849 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *almost $340/year* and *over $2,000* during the time they own MY2025 vehicles, depending on fuel costs (high Oil Price)

Annual family savings will increase by $73 for every $0.50/gallon increase in gasoline prices

Net Savings AVERAGE AK FAMILY (2018$)	Reference	High Oil Price
One Year	$48	$335
6 Years [1] *Typical time a family owns a car*	$287	$2,008

Fuel costs in Alaska are 118% of the US average



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

MJB & A

Annual Savings for Average Arizona Family

The average Arizona family owns 2.2 cars and drives 23,810 miles per year

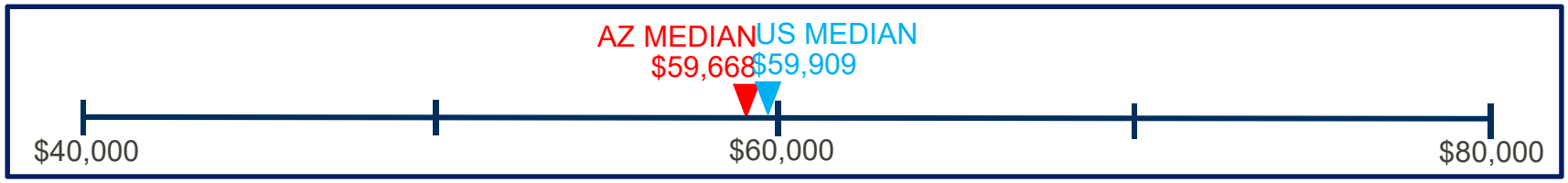
For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *almost $430/year* and *over $2,550* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

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

Net Savings AVERAGE AZ FAMILY (2018$)	Reference	High Oil Price
One Year	$150	$429
6 Years [1] *Typical time a family owns a car*	$889	$2,572

Fuel costs in Arizona are 95% of the US average

HOUSEHOLD INCOME



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

MJB & A

Annual Savings for Average Arkansas Family

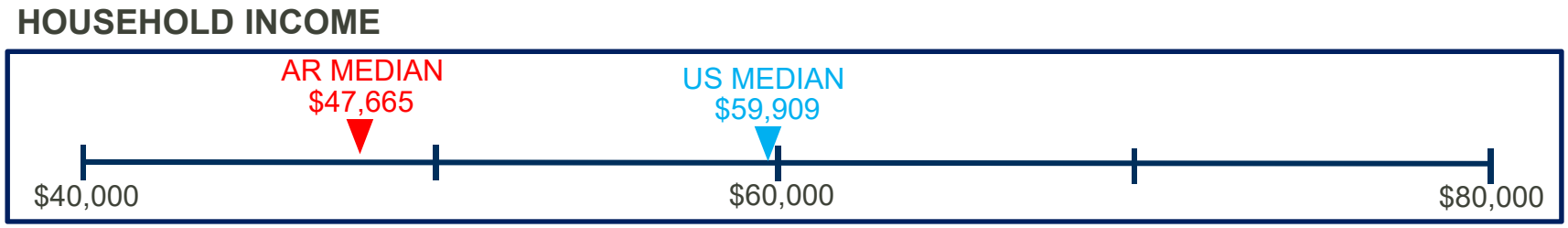
The average Arkansas family owns 2.3 cars and drives 28,809 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *as high as $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 $106 for every $0.50/gallon increase in gasoline prices

Net Savings AVERAGE AR FAMILY (2018$)	Reference	High Oil Price
One Year	$226	$550
6 Years [1] *Typical time a family owns a car*	$1,357	$3,301

Fuel costs in Arkansas are 91% of the US average



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

MJB & A

Annual Savings for Average California Family

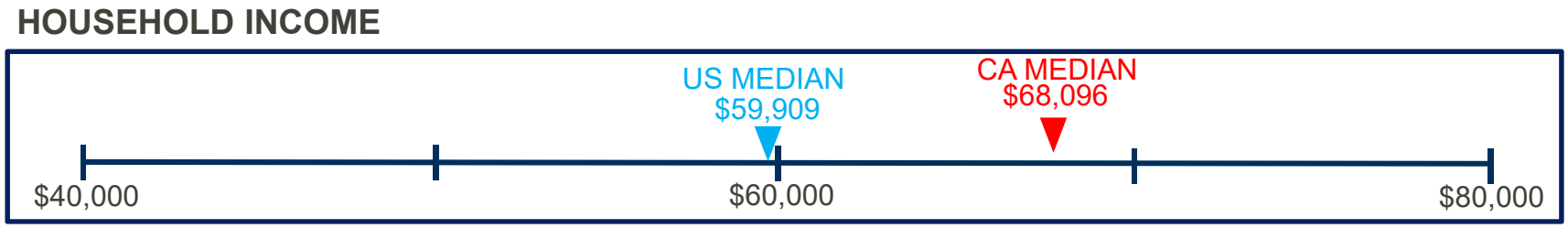
The average California family owns 2.2 cars and drives 24,234 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *almost $640/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 $89 for every $0.50/gallon increase in gasoline prices

Net Savings AVERAGE CA FAMILY (2018$)	Reference	High Oil Price
One Year	$286	$637
6 Years [1] *Typical time a family owns a car*	$1,719	$3,819

Fuel costs in California are 118% of the US average



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

MJB & A

Annual Savings for Average Colorado Family

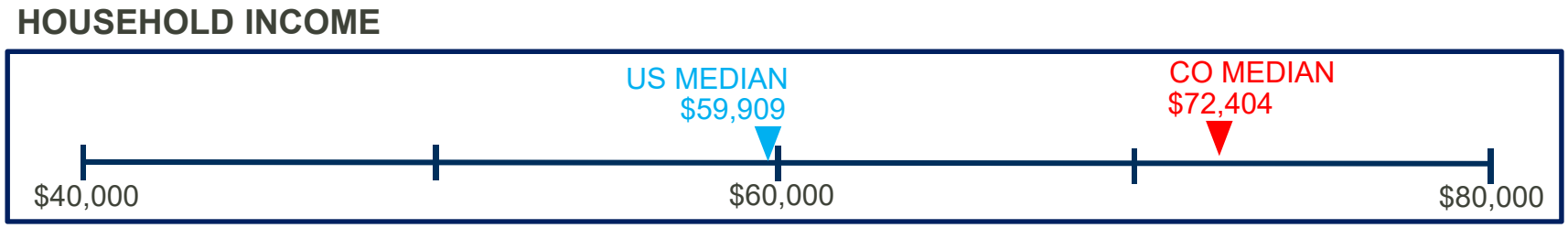
The average Colorado family owns 2.3 cars and drives 223,283 miles per year

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 $86 for every $0.50/gallon increase in gasoline prices

Net Savings AVERAGE CO FAMILY (2018$)	Reference	High Oil Price
One Year	$122	$395
6 Years [1] *Typical time a family owns a car*	$734	$2,370

Fuel costs in Colorado are 95% of the US average



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

MJB & A

Annual Savings for Average Connecticut Family

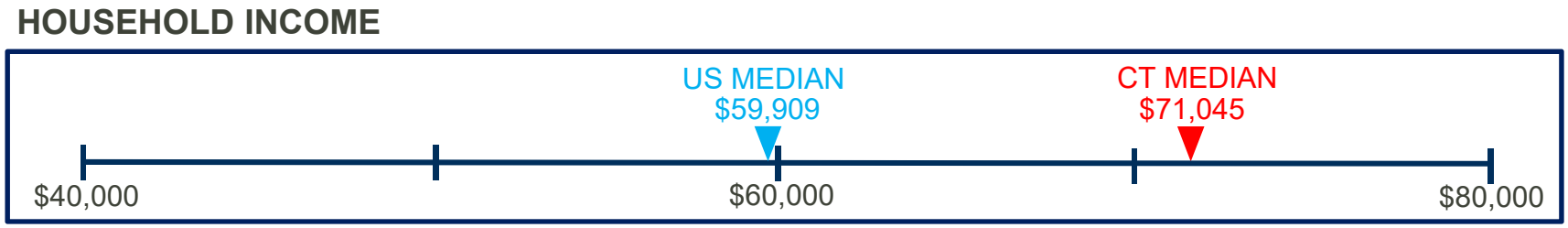
The average Connecticut family owns 1.9 cars and drives 21,011 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over $450/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 $77 for every $0.50/gallon increase in gasoline prices

Net Savings AVERAGE CT FAMILY (2018$)	Reference	High Oil Price
One Year	$185	$454
6 Years [1] *Typical time a family owns a car*	$1,108	$2,724

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*

MJB & A

Annual Savings for Average Delaware Family

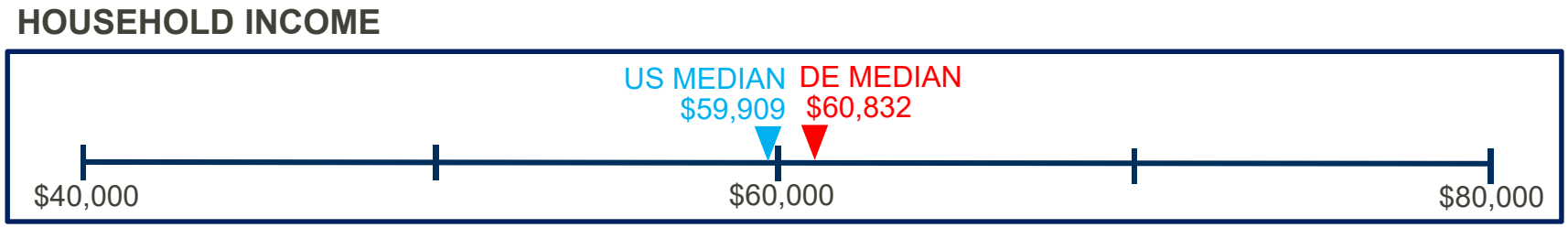
The average Delaware family owns 2.6 cars and drives 26,981 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over $520/year* and *over $3,100* 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 DE FAMILY (2018$)	Reference	High Oil Price
One Year	$194	$524
6 Years [1] *Typical time a family owns a car*	$1,616	$3,147

Fuel costs in Delaware are equivalent to the US average



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

MJB & A

Annual Savings for Average Florida Family

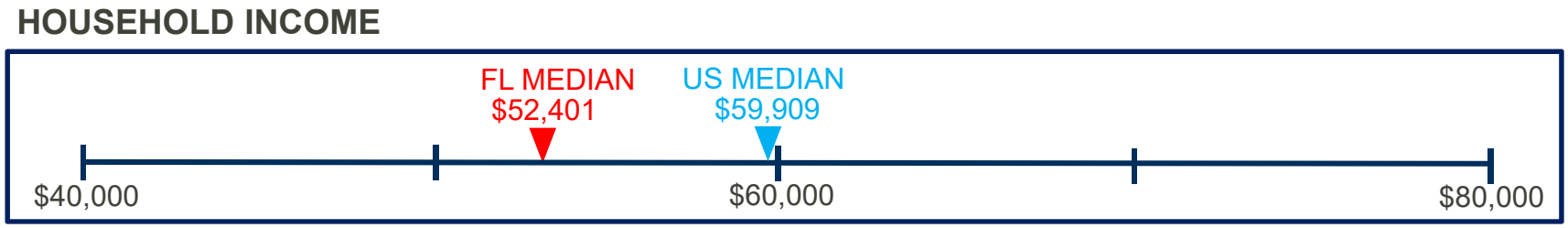
The average Florida family owns 2.1 cars and drives 26,463 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *almost $590/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 $97 for every $0.50/gallon increase in gasoline prices

Net Savings AVERAGE FL FAMILY (2018$)	Reference	High Oil Price
One Year	$262	$586
6 Years [1] *Typical time a family owns a car*	$1,570	$3,517

Fuel costs in Florida are equivalent to the US average



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

MJB & A

Annual Savings for Average Georgia Family

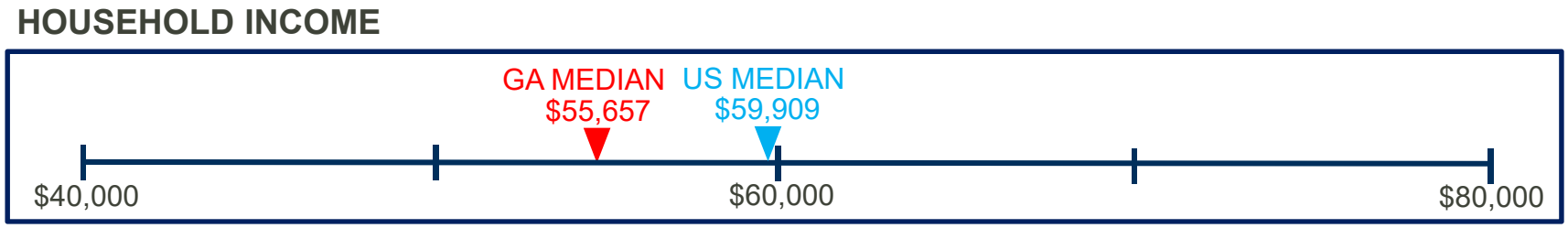
The average Georgia family owns 2.1 cars and drives 30,929 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over $730/year* and *over $4,400* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by $114 for every $0.50/gallon increase in gasoline prices

Net Savings AVERAGE GA FAMILY (2018$)	Reference	High Oil Price
One Year	$354	$733
6 Years [1] *Typical time a family owns a car*	$2,125	$4,401

Fuel costs in Georgia are equivalent to the US average



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

MJB & A

Annual Savings for Average Hawaii Family

The average Hawaii family owns 2.6 cars and drives 21,433 miles per year

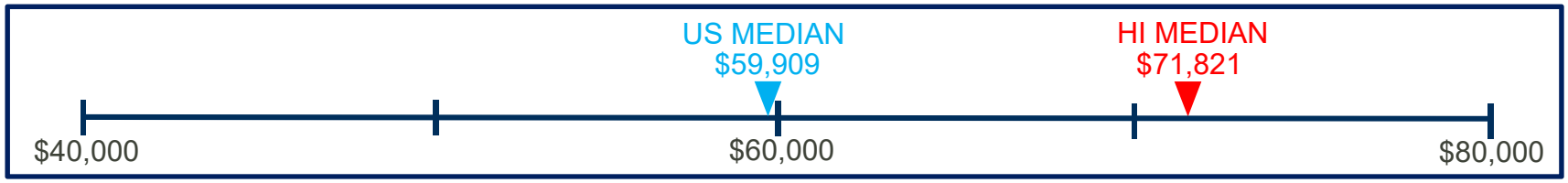
For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over $460/year* and *over $2,750* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

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

Net Savings AVERAGE HI FAMILY (2018$)	Reference	High Oil Price
One Year	$151	$461
6 Years [1] *Typical time a family owns a car*	$908	$2,766

Fuel costs in Hawaii are 118% of the US average

HOUSEHOLD INCOME



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

MJB & A

Annual Savings for Average Idaho Family

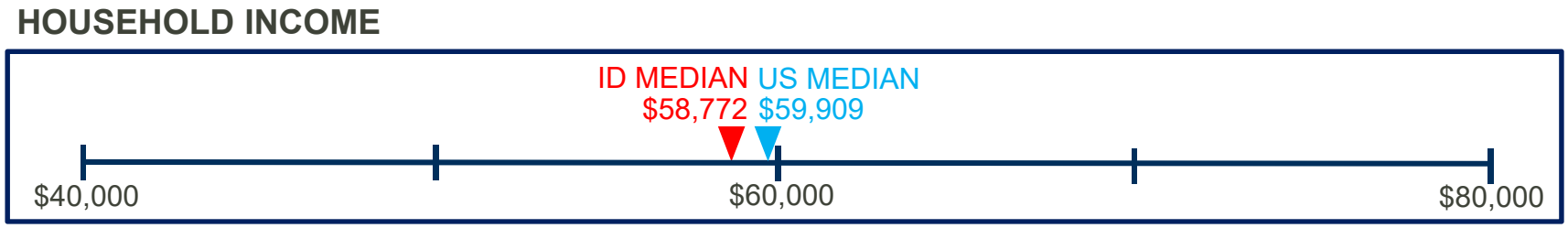
The average Idaho family owns 2.8 cars and drives 25,798 miles per year

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 $95 for every $0.50/gallon increase in gasoline prices

Net Savings AVERAGE ID FAMILY (2018$)	Reference	High Oil Price
One Year	$101	$403
6 Years [1] *Typical time a family owns a car*	$608	$2,420

Fuel costs in Idaho are 95% of the US average



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

MJB & A

Annual Savings for Average Illinois Family

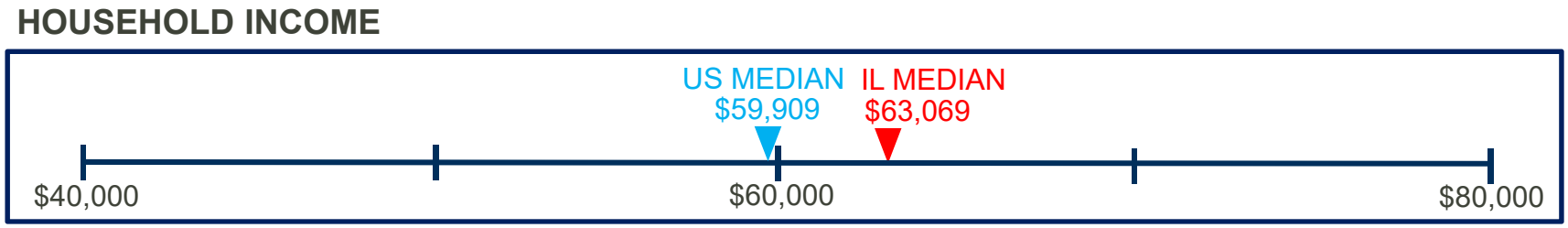
The average Illinois family owns 2.1 cars and drives 20,361 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *as high as $360/year* and *over $2,150* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by $75 for every $0.50/gallon increase in gasoline prices

Net Savings AVERAGE IL FAMILY (2018$)	Reference	High Oil Price
One Year	$113	$360
6 Years [1] *Typical time a family owns a car*	$677	$2,157

Fuel costs in Illinois are 99% of the US average



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

MJB & A

Annual Savings for Average Indiana Family

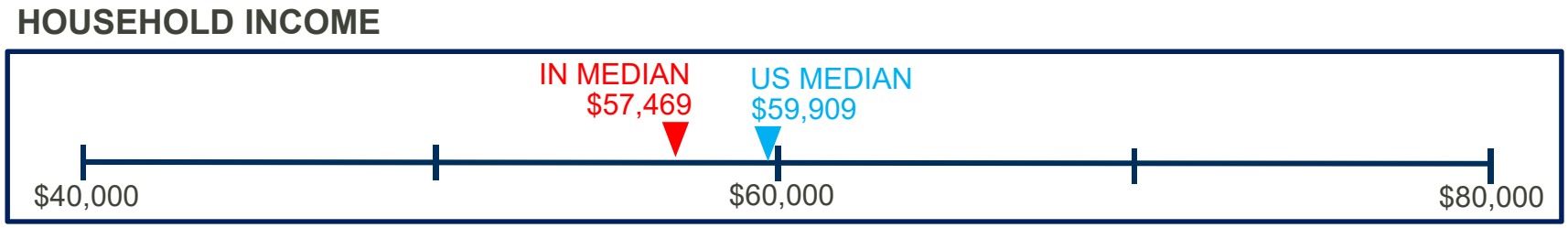
The average Indiana family owns 2.2 cars and drives 29,267 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *almost $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 $108 for every $0.50/gallon increase in gasoline prices

Net Savings AVERAGE IN FAMILY (2018$)	Reference	High Oil Price
One Year	$294	$649
6 Years [1] *Typical time a family owns a car*	$1,764	$3,892

Fuel costs in Indiana are 99% of the US average



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

MJB & A

Annual Savings for Average Iowa Family

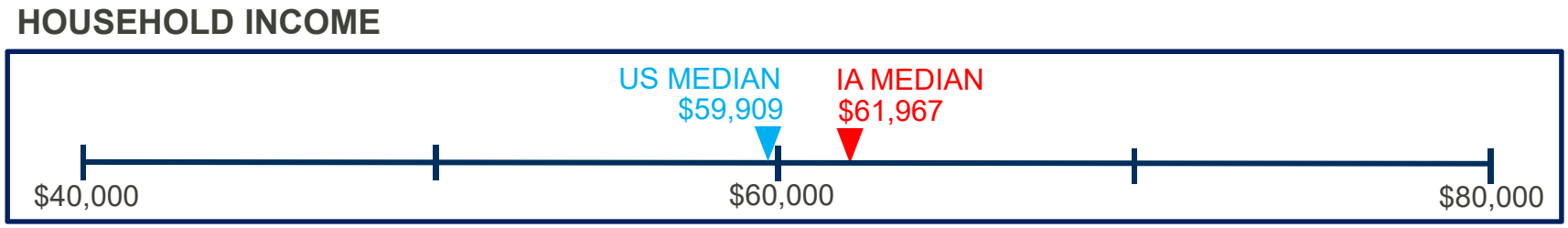
The average Iowa family owns 2.7 cars and drives 24,299 miles per year

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 $89 for every $0.50/gallon increase in gasoline prices

Net Savings AVERAGE IA FAMILY (2018$)	Reference	High Oil Price
One Year	$63	$348
6 Years [1] *Typical time a family owns a car*	$415	$2,090

Fuel costs in Iowa are 93% of the US average



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

MJB & A

Annual Savings for Average Kansas Family

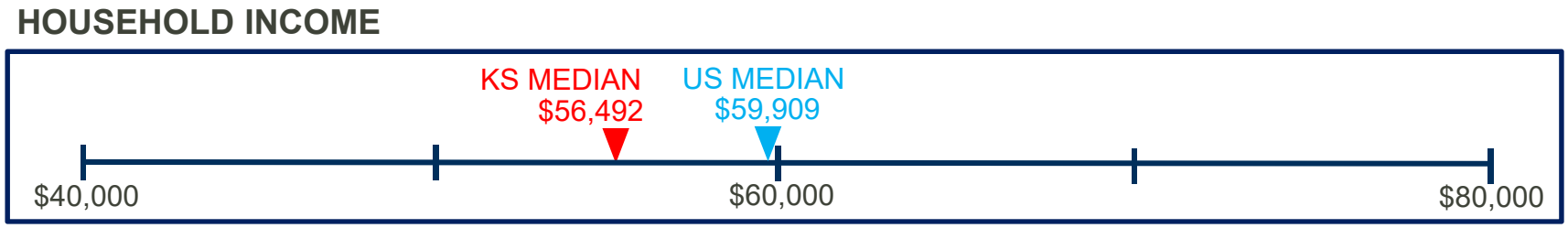
The average Kansas family owns 2.2 cars and drives 26,116 miles per year

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 $96 for every $0.50/gallon increase in gasoline prices

Net Savings AVERAGE KS FAMILY (2018$)	Reference	High Oil Price
One Year	$190	$490
6 Years [1] *Typical time a family owns a car*	$1,140	$2,941

Fuel costs in Kansas are 93% of the US average



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

MJB & A

Annual Savings for Average Kentucky Family

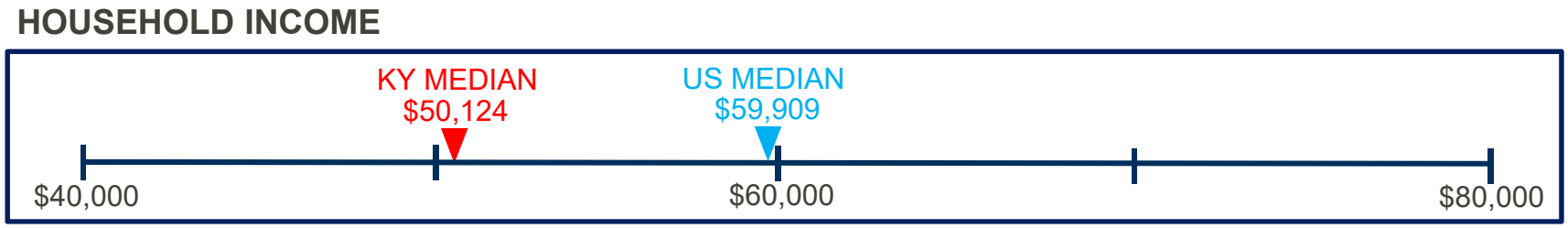
The average Kentucky family owns 2.3 cars and drives 25,934 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *almost $460/year* and *over $2,750* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by $95 for every $0.50/gallon increase in gasoline prices

Net Savings AVERAGE KY FAMILY (2018$)	Reference	High Oil Price
One Year	$164	$459
6 Years [1] *Typical time a family owns a car*	$986	$2,754

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*

MJB & A

Annual Savings for Average Louisiana Family

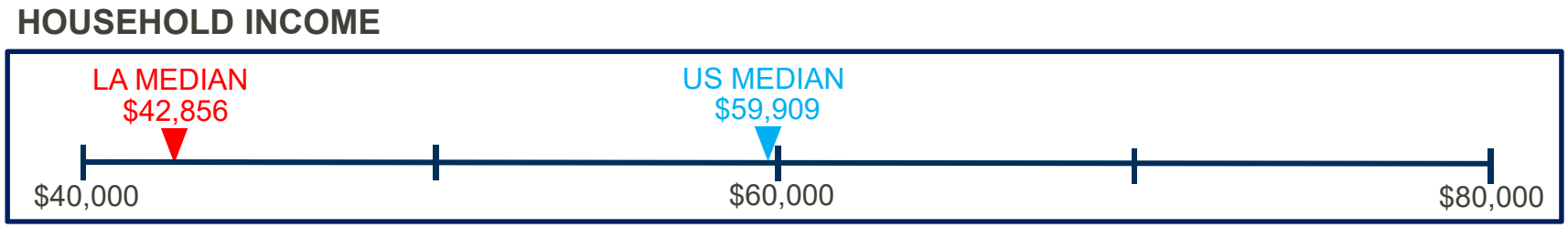
The average Louisiana family owns 2.1 cars and drives 25,729 miles per year

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 $95 for every $0.50/gallon increase in gasoline prices

Net Savings AVERAGE LA FAMILY (2018$)	Reference	High Oil Price
One Year	$194	$484
6 Years [1] *Typical time a family owns a car*	$1,167	$2,903

Fuel costs in Louisiana are 91% of the US average



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

MJB & A

Annual Savings for Average Maine Family

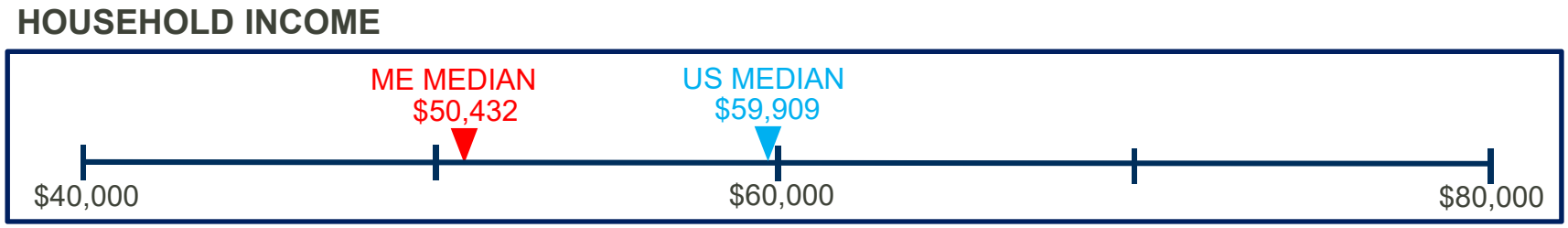
The average Maine family owns 21.8 cars and drives 24,161 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over $590/year* and *almost $3,550* 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 ME FAMILY (2018$)	Reference	High Oil Price
One Year	$282	$591
6 Years [1] *Typical time a family owns a car*	$1,689	$3,547

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*

MJB & A

Annual Savings for Average Maryland Family

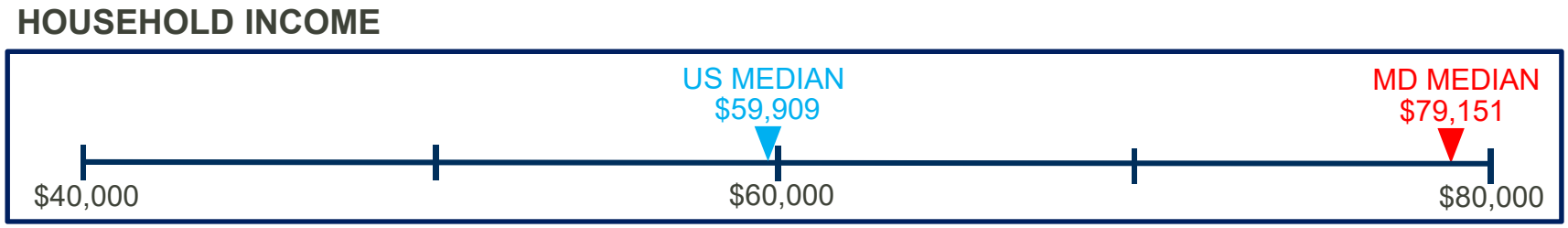
The average Maryland family owns 1.9 cars and drives 25,005 miles per year

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 $92 for every $0.50/gallon increase in gasoline prices

Net Savings AVERAGE MD FAMILY (2018$)	Reference	High Oil Price
One Year	$266	$573
6 Years [1] *Typical time a family owns a car*	$1,596	$3,436

Fuel costs in Maryland are equivalent to the US average



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

MJB & A

Annual Savings for Average Massachusetts Family

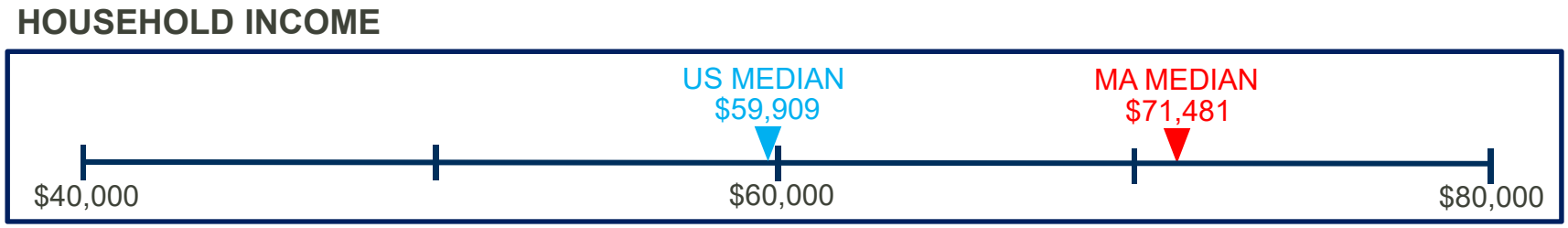
The average Massachusetts family owns 1.8 cars and drives 22,001 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *as much as $510/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 $81 for every $0.50/gallon increase in gasoline prices

Net Savings AVERAGE MA FAMILY (2018$)	Reference	High Oil Price
One Year	$228	$510
6 Years [1] *Typical time a family owns a car*	$1,366	$3,058

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*

MJB & A

Annual Savings for Average Michigan Family

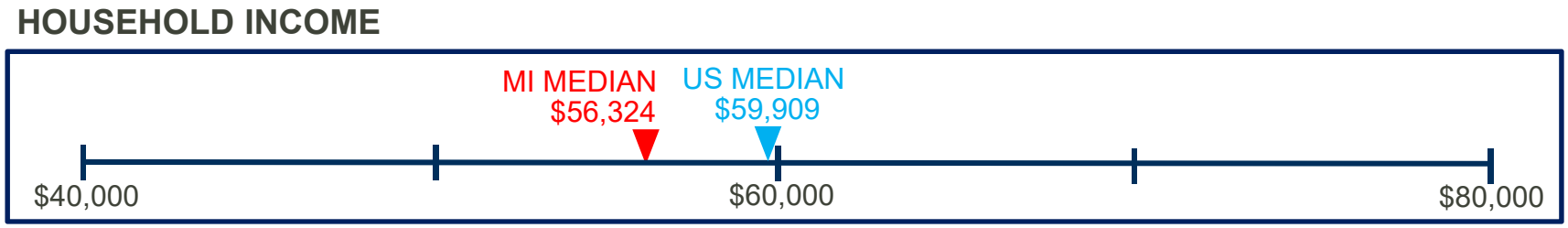
The average Michigan family owns 2.0 cars and drives 23,768 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *as high as $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 $87 for every $0.50/gallon increase in gasoline prices

Net Savings AVERAGE MI FAMILY (2018$)	Reference	High Oil Price
One Year	$202	$490
6 Years [1] *Typical time a family owns a car*	$1,210	$2,939

Fuel costs in Michigan are 99% of the US average



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

MJB & A

Annual Savings for Average Minnesota Family

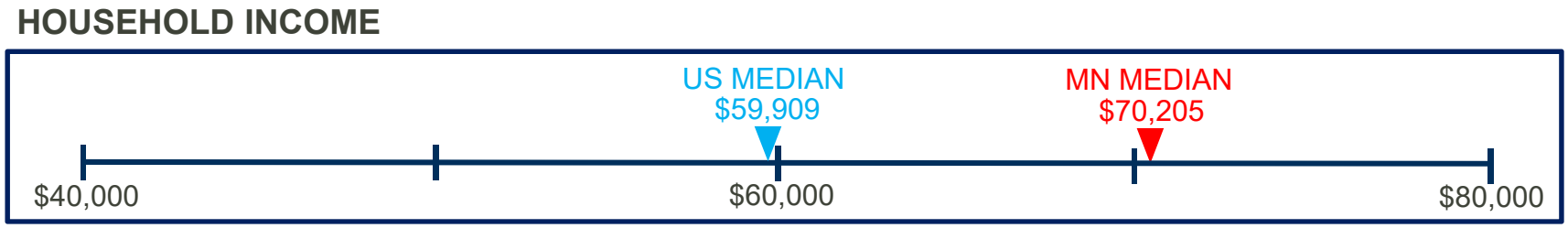
The average Minnesota family owns 2.4 cars and drives 25,298 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over $430/year* and *almost $2,600* 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 MN FAMILY (2018$)	Reference	High Oil Price
One Year	$142	$432
6 Years [1] *Typical time a family owns a car*	$849	$2,594

Fuel costs in Minnesota are 93% of the US average



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

MJB & A

Annual Savings for Average Mississippi Family

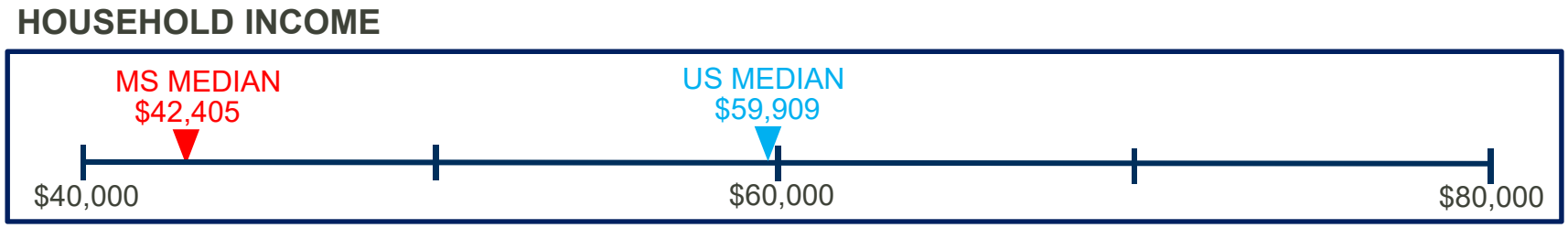
The average Mississippi family owns 1.8 cars and drives 33,646 miles per year

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

Annual family savings will increase by $124 for every $0.50/gallon increase in gasoline prices

Net Savings AVERAGE MS FAMILY (2018$)	Reference	High Oil Price
One Year	$426	$808
6 Years [1] *Typical time a family owns a car*	$2,554	$4,847

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*

MJB & A

Annual Savings for Average Missouri Family

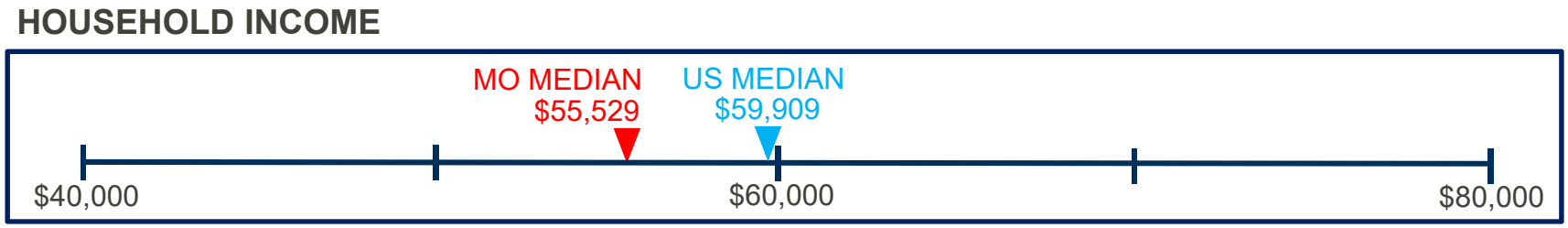
The average Missouri family owns 2.1 cars and drives 28,895 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over $590/year* and *over $3,550* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by $106 for every $0.50/gallon increase in gasoline prices

Net Savings AVERAGE MO FAMILY (2018$)	Reference	High Oil Price
One Year	$260	$592
6 Years [1] *Typical time a family owns a car*	$1,562	$3,554

Fuel costs in Missouri are 93% of the US average



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

MJB & A

Annual Savings for Average Montana Family

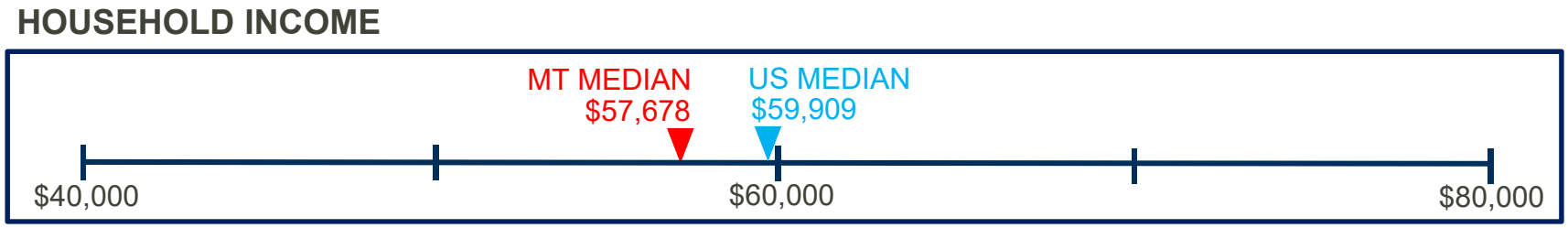
The average Montana family owns 3.5 cars and drives 23,347 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *almost $330/year* and *almost $2,000* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by $100 for every $0.50/gallon increase in gasoline prices

Net Savings AVERAGE MT FAMILY (2018$)	Reference	High Oil Price
One Year	$7	$327
6 Years [1] *Typical time a family owns a car*	$40	$1,962

Fuel costs in Montana are 95% of the US average



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

MJB & A

Annual Savings for Average Nebraska Family

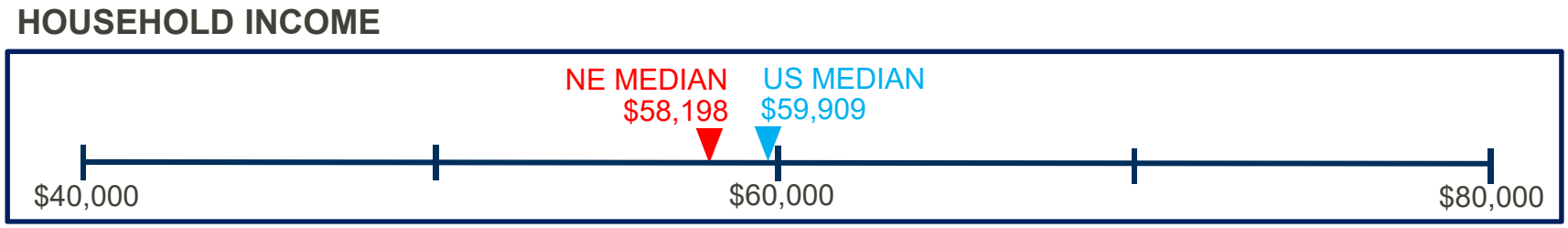
The average Nebraska family owns 2.4 cars and drives 25,489 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over $430/year* and *over $2,600* 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 NE FAMILY (2018$)	Reference	High Oil Price
One Year	$142	$435
6 Years [1] *Typical time a family owns a car*	$851	$2,608

Fuel costs in Nebraska are 93% of the US average



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

MJB & A

Annual Savings for Average Nevada Family

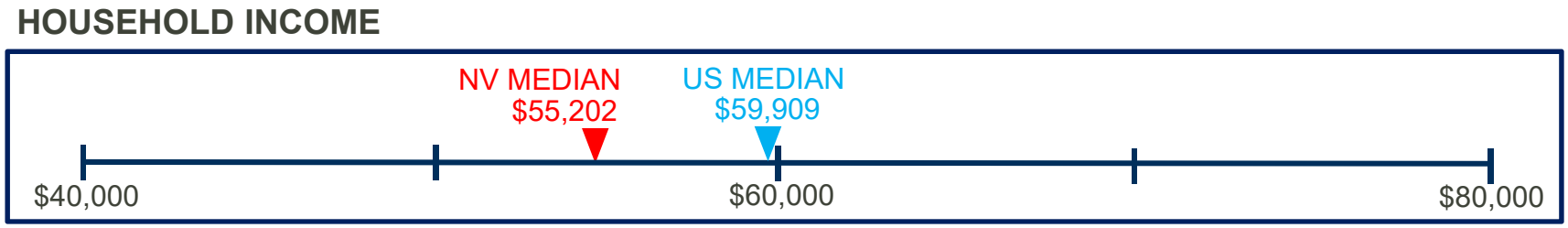
The average Nevada family owns 2.2 cars and drives 23,813 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over $440/year* and *almost $2,650* 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 NV FAMILY (2018$)	Reference	High Oil Price
One Year	$162	$441
6 Years [1] *Typical time a family owns a car*	$973	$2,646

Fuel costs in Nevada are 95% of the US average



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

MJB & A

Annual Savings for Average New Hampshire Family

The average New Hampshire family owns 2.2 cars and drives 23,539 miles per year

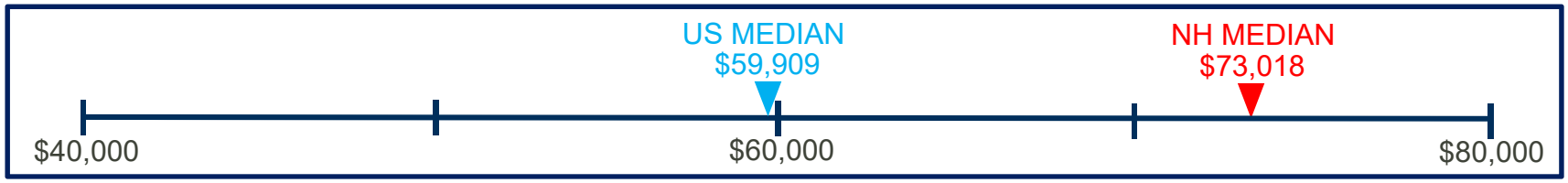
For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *almost $500/year* and *almost $3,000* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

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

Net Savings AVERAGE NH FAMILY (2018$)	Reference	High Oil Price
One Year	$191	$494
6 Years [1] *Typical time a family owns a car*	$1,149	$2,963

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

HOUSEHOLD INCOME



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

MJB & A

Annual Savings for Average New Jersey Family

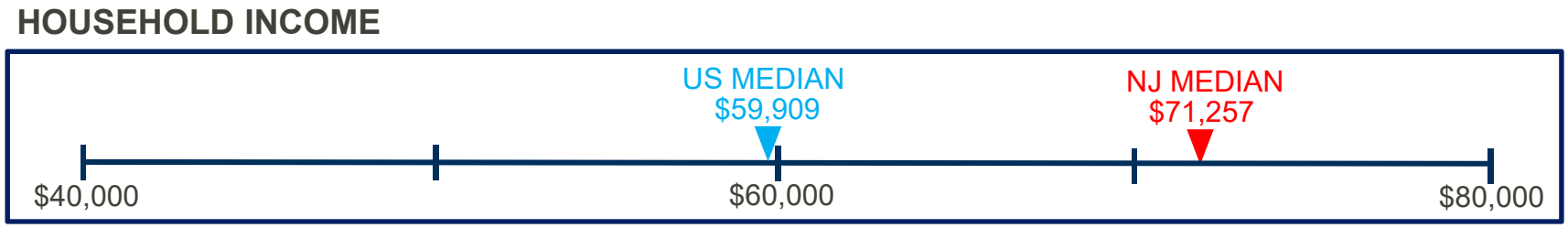
The average New Jersey family owns 1.8 cars and drives 22,006 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *almost $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 $81 for every $0.50/gallon increase in gasoline prices

Net Savings AVERAGE NJ FAMILY (2018$)	Reference	High Oil Price
One Year	$242	$528
6 Years [1] *Typical time a family owns a car*	$1,454	$3,169

Fuel costs in New Jersey are 106% of the US average



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

MJB & A

Annual Savings for Average New Mexico Family

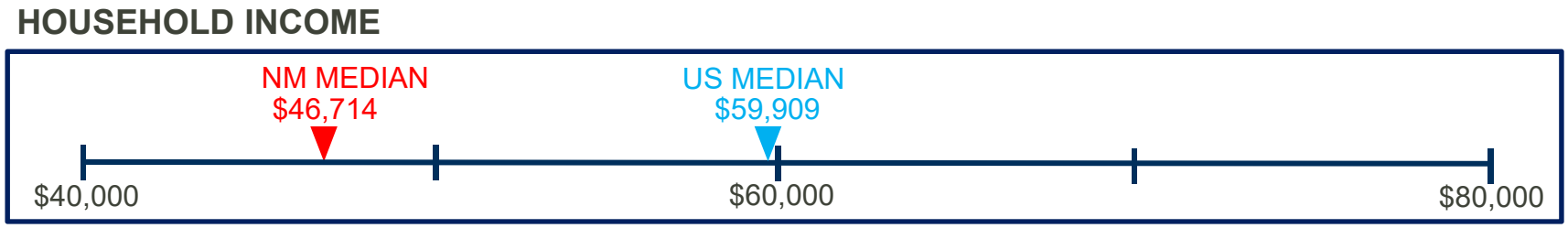
The average New Mexico family owns 2.1 cars and drives 34,991 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over $830/year* and *almost $5,000* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by $129 for every $0.50/gallon increase in gasoline prices

Net Savings AVERAGE NM FAMILY (2018$)	Reference	High Oil Price
One Year	$422	$832
6 Years [1] *Typical time a family owns a car*	$2,534	$4,992

Fuel costs in New Mexico are 95% of the US average



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

MJB & A

Annual Savings for Average New York Family

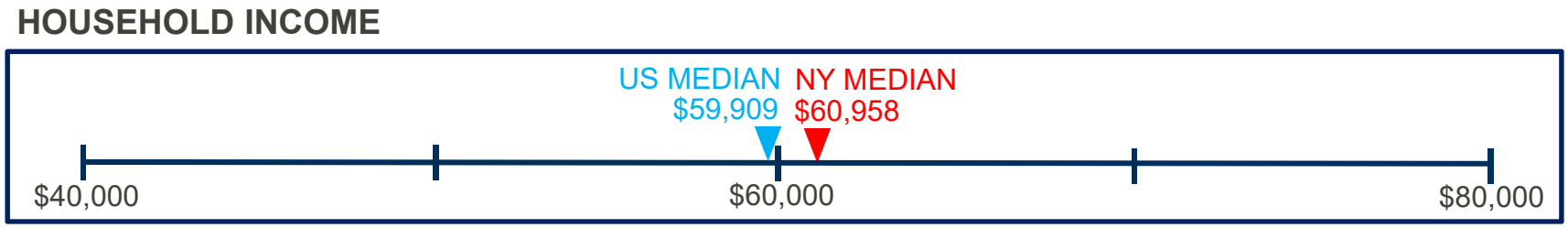
The average New York family owns 1.4 cars and drives 15,390 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *almost $350/year* and *over $2,000* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by $57 for every $0.50/gallon increase in gasoline prices

Net Savings AVERAGE NY FAMILY (2018$)	Reference	High Oil Price
One Year	$146	$346
6 Years [1] *Typical time a family owns a car*	$879	$2,078

Fuel costs in New York are 106% of the US average



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

MJB & A

Annual Savings for Average North Carolina Family

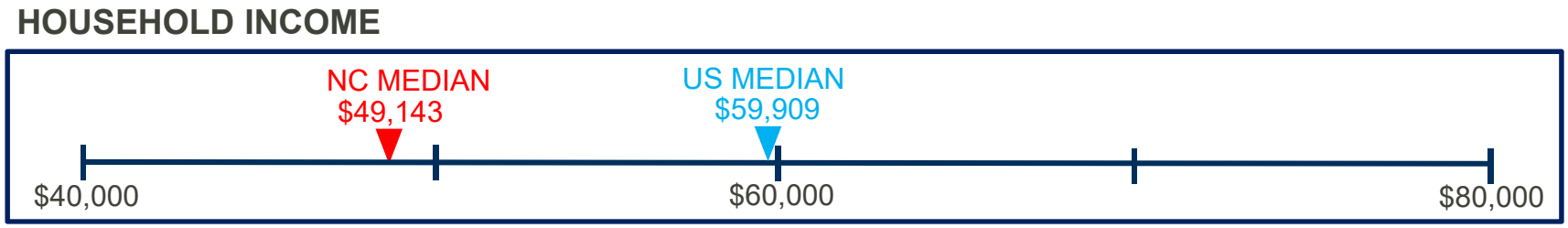
The average North Carolina family owns 1.9 cars and drives 27,940 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over $660/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 $103 for every $0.50/gallon increase in gasoline prices

Net Savings AVERAGE NC FAMILY (2018$)	Reference	High Oil Price
One Year	$319	$662
6 Years [1] *Typical time a family owns a car*	$1,917	$3,973

Fuel costs in North Carolina are equivalent to the US average



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

MJB & A

Annual Savings for Average North Dakota Family

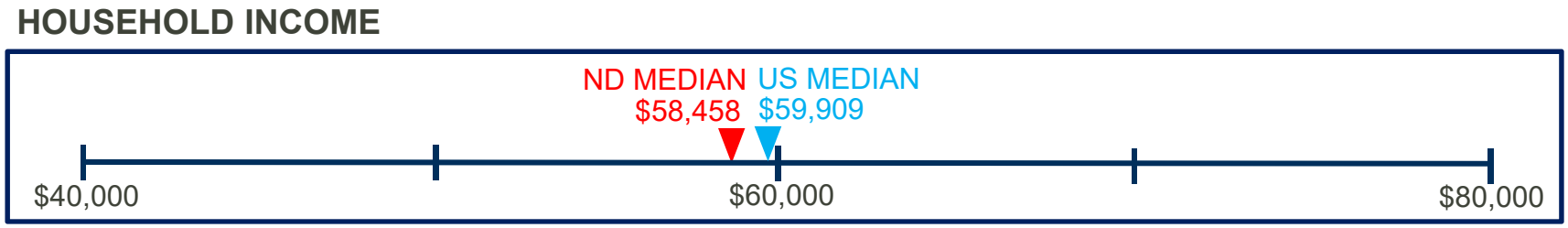
The average North Dakota family owns 3.1 cars and drives 28,331 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *as much as $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 $104 for every $0.50/gallon increase in gasoline prices

Net Savings AVERAGE ND FAMILY (2018$)	Reference	High Oil Price
One Year	$95	$420
6 Years [1] *Typical time a family owns a car*	$568	$2,521

Fuel costs in North Dakota are 93% 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

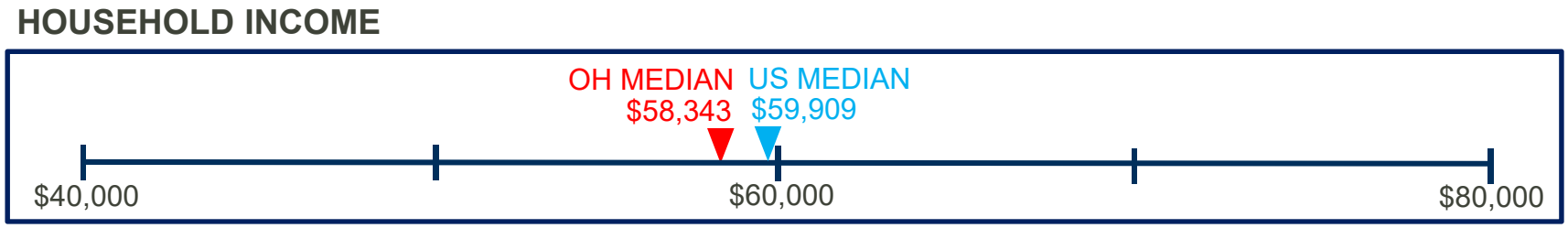
The average Ohio family owns 2.1 cars and drives 23,446 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *almost $460/year* and *over $2,750* 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 OH FAMILY (2018$)	Reference	High Oil Price
One Year	$175	$459
6 Years [1] *Typical time a family owns a car*	$1,049	$2,754

Fuel costs in Ohio are 99% of the US average



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

MJB & A

Annual Savings for Average Oklahoma Family

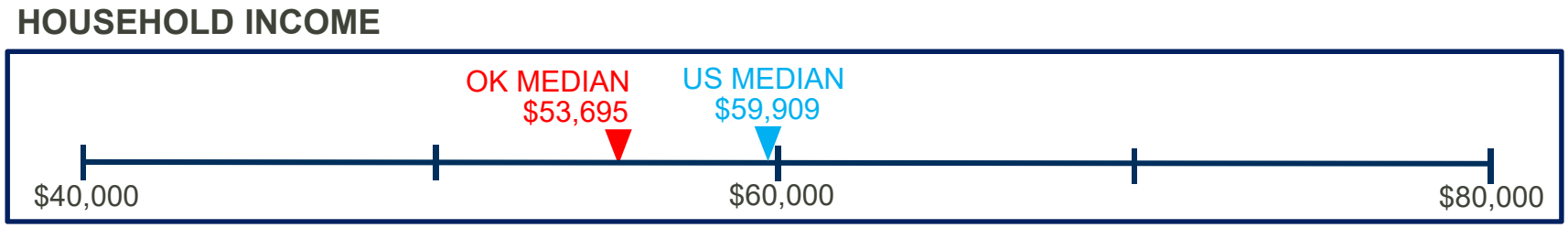
The average Oklahoma family owns 2.3 cars and drives 30,547 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *almost $600/year* and *over $3,550* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by $112 for every $0.50/gallon increase in gasoline prices

Net Savings AVERAGE OK FAMILY (2018$)	Reference	High Oil Price
One Year	$253	$596
6 Years [1] *Typical time a family owns a car*	$1,517	$3,578

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*

MJB & A

Annual Savings for Average Oregon Family

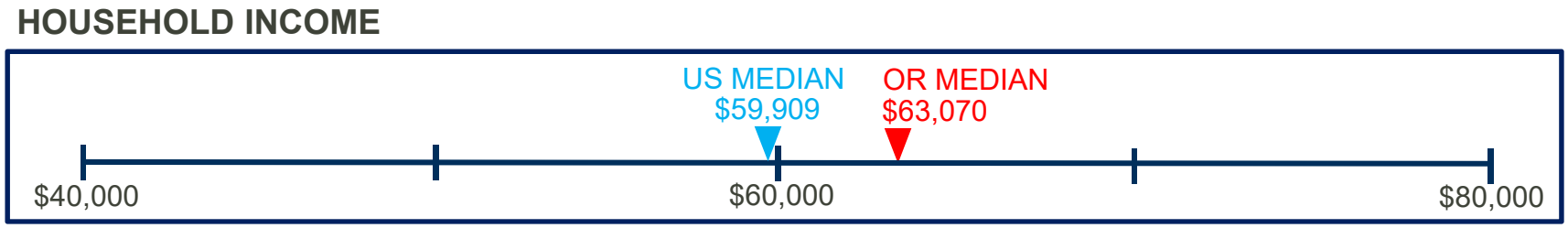
The average Oregon family owns 2.4 cars and drives 21,241 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *as much as $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 $78 for every $0.50/gallon increase in gasoline prices

Net Savings AVERAGE OR FAMILY (2018$)	Reference	High Oil Price
One Year	$173	$480
6 Years [1] *Typical time a family owns a car*	$1,038	$2,879

Fuel costs in Oregon are 118% of the US average



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

MJB & A

Annual Savings for Average Pennsylvania Family

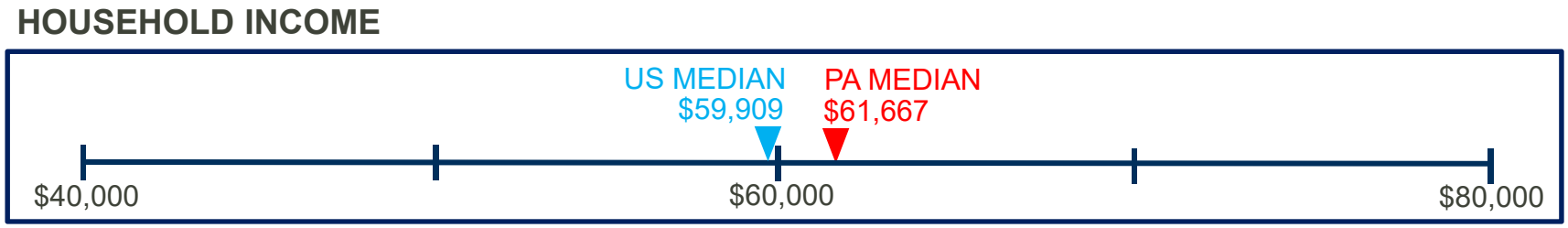
The average Pennsylvania family owns 2.0 cars and drives 18,432 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *almost $360/year* and *over $2,150* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by $68 for every $0.50/gallon increase in gasoline prices

Net Savings AVERAGE PA FAMILY (2018$)	Reference	High Oil Price
One Year	$120	$359
6 Years [1] *Typical time a family owns a car*	$720	$2,157

Fuel costs in Pennsylvania are 106% 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

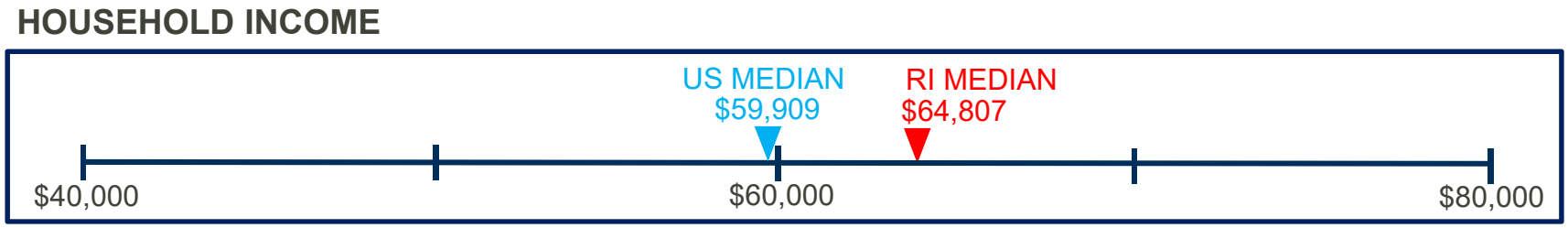
The average Rhode Island family owns 2.0 cars and drives 17,638 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over $320/year* and *almost $1,950* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by $65 for every $0.50/gallon increase in gasoline prices

Net Savings AVERAGE RI FAMILY (2018$)	Reference	High Oil Price
One Year	$97	$323
6 Years [1] *Typical time a family owns a car*	$584	$1,941

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*

MJB & A

Annual Savings for Average South Carolina Family

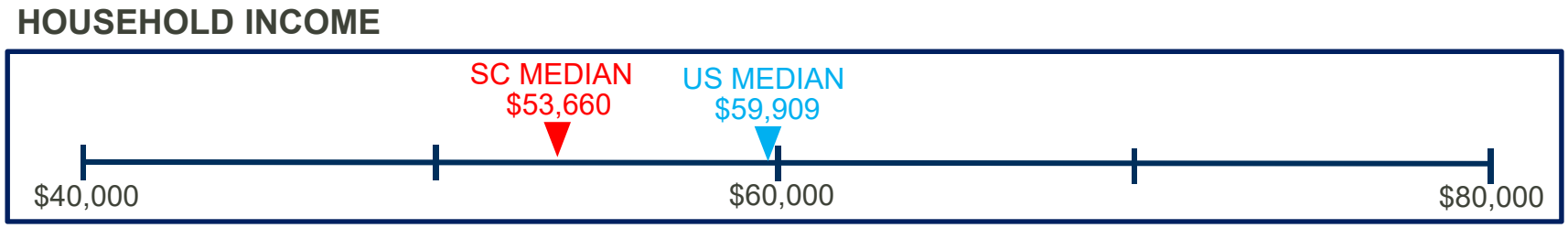
The average South Carolina family owns 2.2 cars and drives 26,937 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *almost $590/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 $99 for every $0.50/gallon increase in gasoline prices

Net Savings AVERAGE SC FAMILY (2018$)	Reference	High Oil Price
One Year	$255	$585
6 Years [1] *Typical time a family owns a car*	$1,529	$3,511

Fuel costs in South Carolina are equivalent to the US average



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

MJB & A

Annual Savings for Average South Dakota Family

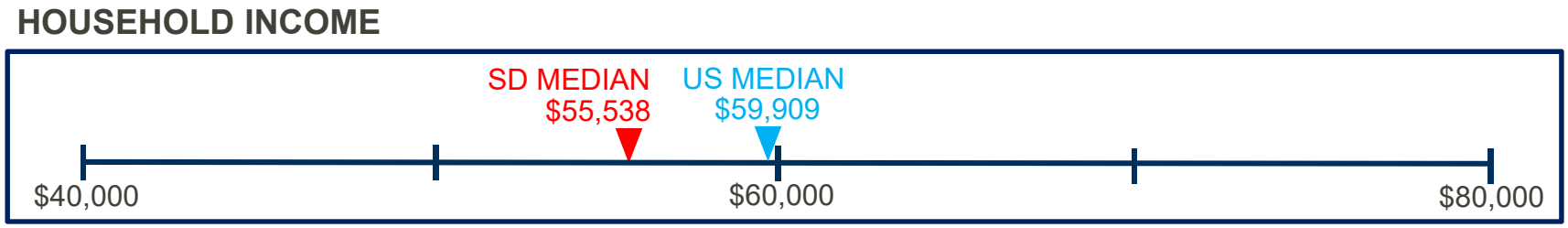
The average South Dakota family owns 3.2 cars and drives 25,801 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over $310/year* and *almost $1,900* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by $95 for every $0.50/gallon increase in gasoline prices

Net Savings AVERAGE SD FAMILY (2018$)	Reference	High Oil Price
One Year	$18	$314
6 Years [1] *Typical time a family owns a car*	$106	$1,885

Fuel costs in South Dakota are 93% of the US average



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

MJB & A

Annual Savings for Average Tennessee Family

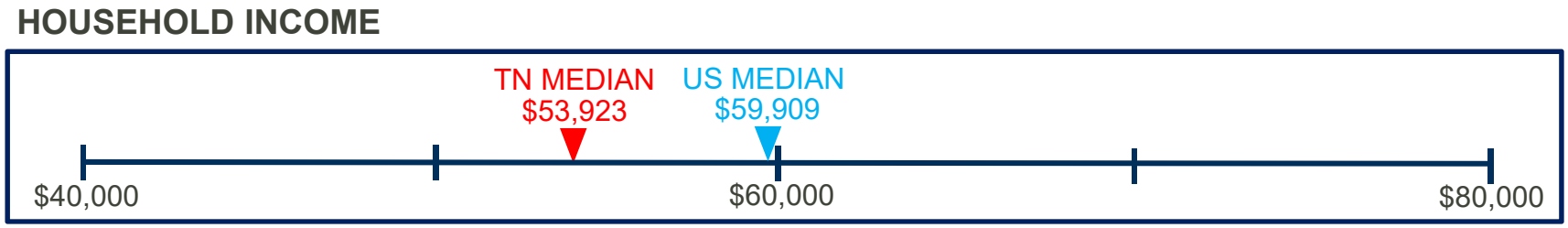
The average Tennessee family owns 2.1 cars and drives 29,331 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *almost $610/year* and *almost $3,650* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by $108 for every $0.50/gallon increase in gasoline prices

Net Savings AVERAGE TN FAMILY (2018$)	Reference	High Oil Price
One Year	$273	$606
6 Years [1] *Typical time a family owns a car*	$1,636	$3,635

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*

MJB & A

Annual Savings for Average Texas Family

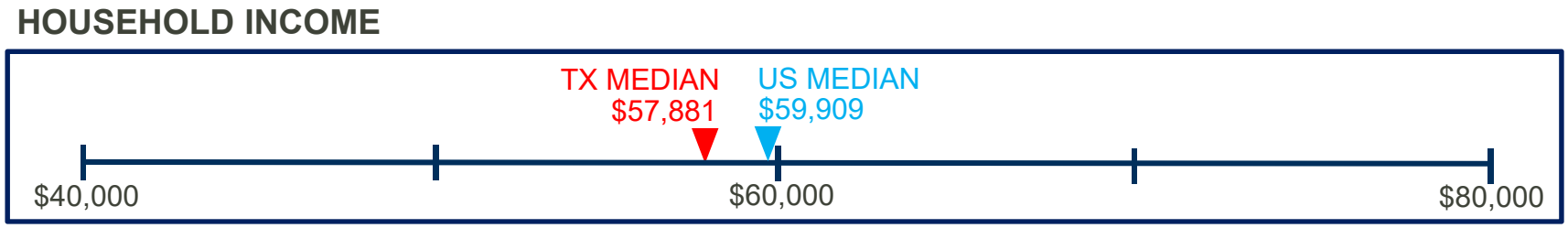
The average Texas family owns 2.2 cars and drives 26,292 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over $480/year* and *almost $3,000* 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 TX FAMILY (2018$)	Reference	High Oil Price
One Year	$186	$482
6 Years [1] *Typical time a family owns a car*	$1,118	$2,891

Fuel costs in Texas are 91% of the US average



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

MJB & A

Annual Savings for Average Utah Family

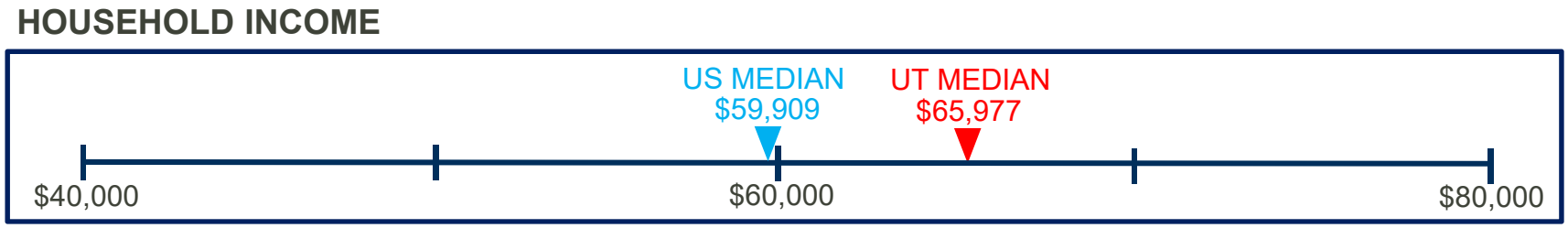
The average Utah family owns 2.3 cars and drives 30,467 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over $640/year* and *almost $3,850* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by $112 for every $0.50/gallon increase in gasoline prices

Net Savings AVERAGE UT FAMILY (2018$)	Reference	High Oil Price
One Year	$284	$641
6 Years [1] *Typical time a family owns a car*	$1,702	$3,843

Fuel costs in Utah are 95% of the US average



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

MJB & A

Annual Savings for Average Vermont Family

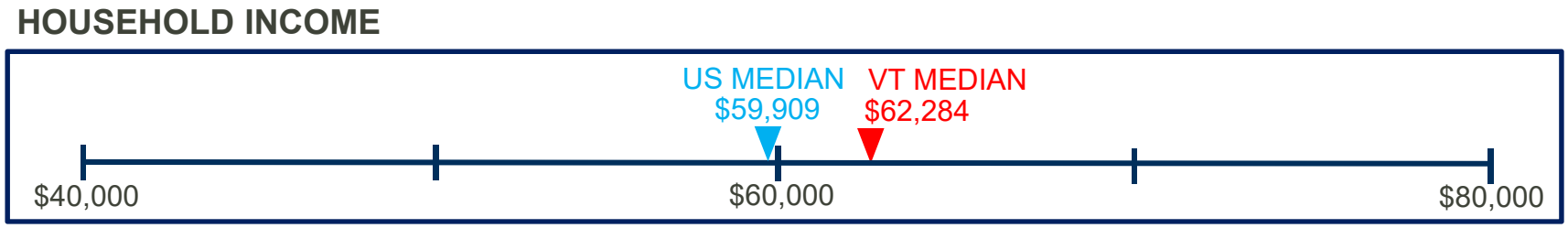
The average Vermont family owns 2.2 cars and drives 26,084 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *almost $600/year* and *over $3,550* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by $96 for every $0.50/gallon increase in gasoline prices

Net Savings AVERAGE VT FAMILY (2018$)	Reference	High Oil Price
One Year	$263	$597
6 Years [1] *Typical time a family owns a car*	$1,579	$3,585

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*

MJB & A

Annual Savings for Average Virginia Family

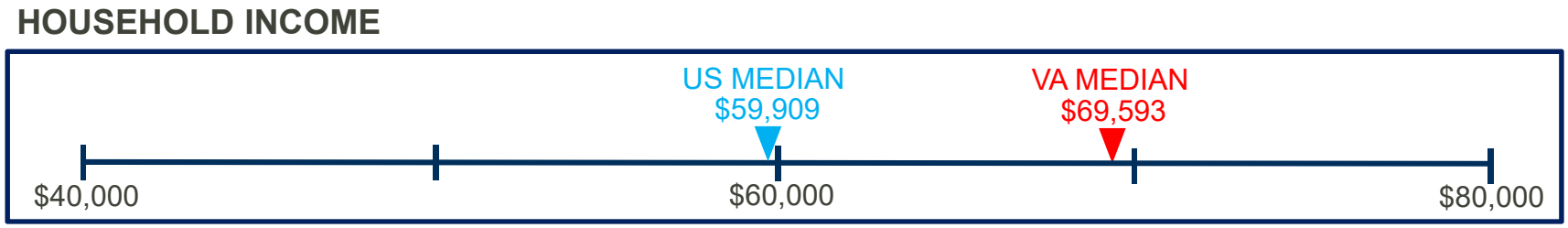
The average Virginia family owns 2.3 cars and drives 24,937 miles per year

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 VA FAMILY (2018$)	Reference	High Oil Price
One Year	$198	$503
6 Years [1] *Typical time a family owns a car*	$1,186	$3,021

Fuel costs in Virginia are equivalent to the US average



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

MJB & A

Annual Savings for Average Washington Family

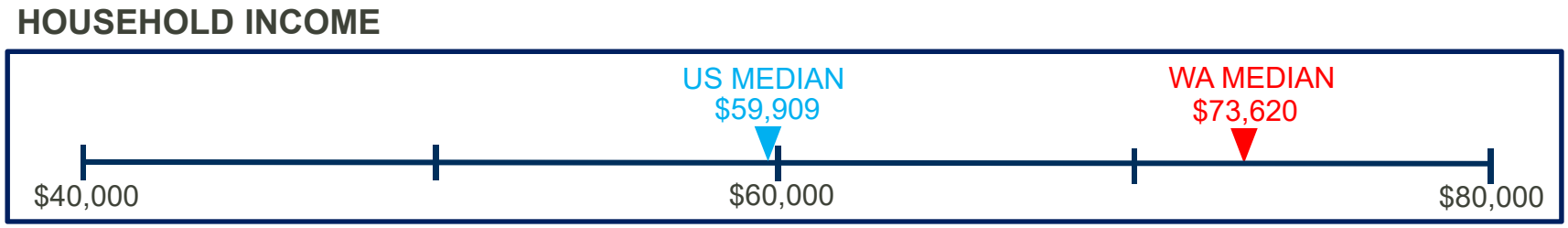
The average Washington family owns 2.4 cars and drives 20,245 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over $430/year* and *over $2,600* 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 WA FAMILY (2018$)	Reference	High Oil Price
One Year	$141	$434
6 Years [1] *Typical time a family owns a car*	$847	$2,601

Fuel costs in Washington are 118% of the US average



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

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Annual Savings for Average West Virginia Family

The average West Virginia family owns 2.1 cars and drives 23,484 miles per year

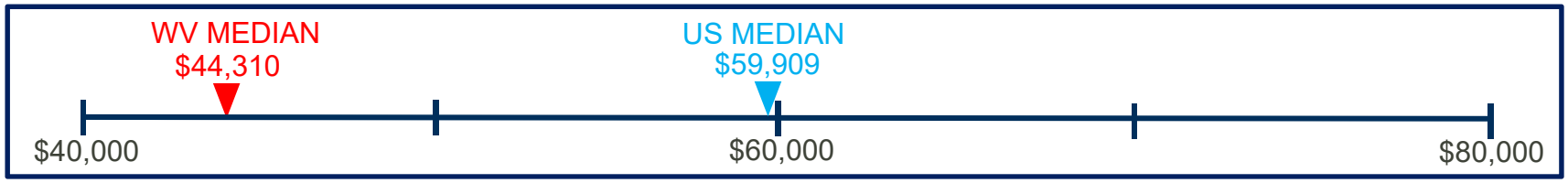
For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *almost $480/year* and *over $2,850* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

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

Net Savings AVERAGE WV FAMILY (2018$)	Reference	High Oil Price
One Year	$188	$476
6 Years [1] *Typical time a family owns a car*	$1,126	$2,854

Fuel costs in West Virginia are equivalent to the US average

HOUSEHOLD INCOME



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

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Annual Savings for Average Wisconsin Family

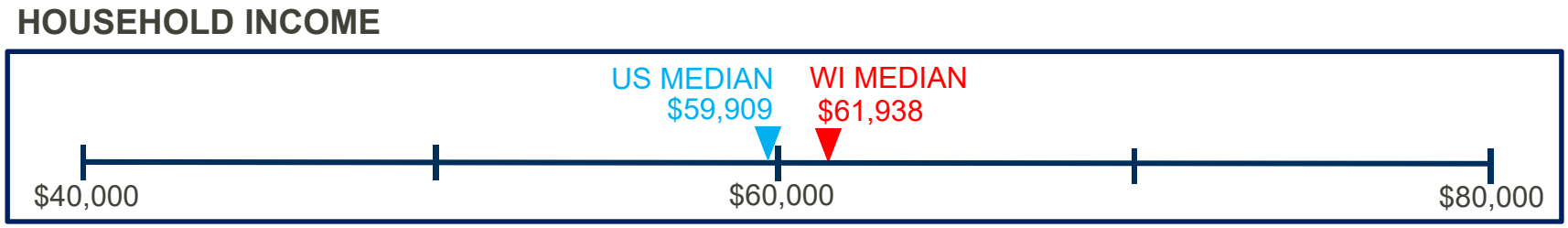
The average Wisconsin family owns 2.2 cars and drives 25,479 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *almost $530/year* and *over $3,150* 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 WI FAMILY (2018$)	Reference	High Oil Price
One Year	$218	$527
6 Years [1] *Typical time a family owns a car*	$1,310	$3,163

Fuel costs in Wisconsin are 99% of the US average



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

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Annual Savings for Average Wyoming Family

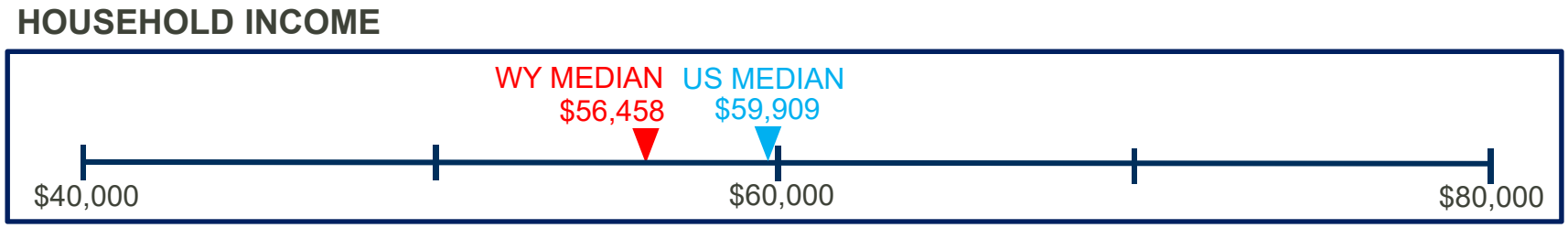
The average Wyoming family owns 3.3 cars and drives 38,601 miles per year

For this family *net savings* from MY2025 U.S. climate pollution and fuel economy standards could be *over $750/year* and *over $4,500* during the time they own MY2025 vehicles, depending on fuel costs (High Oil Price)

Annual family savings will increase by $142 for every $0.50/gallon increase in gasoline prices

Net Savings AVERAGE WY FAMILY (2018$)	Reference	High Oil Price
One Year	$300	$753
6 Years [1] *Typical time a family owns a car*	$1,803	$4,515

Fuel costs in Wyoming are 95% of the US average



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

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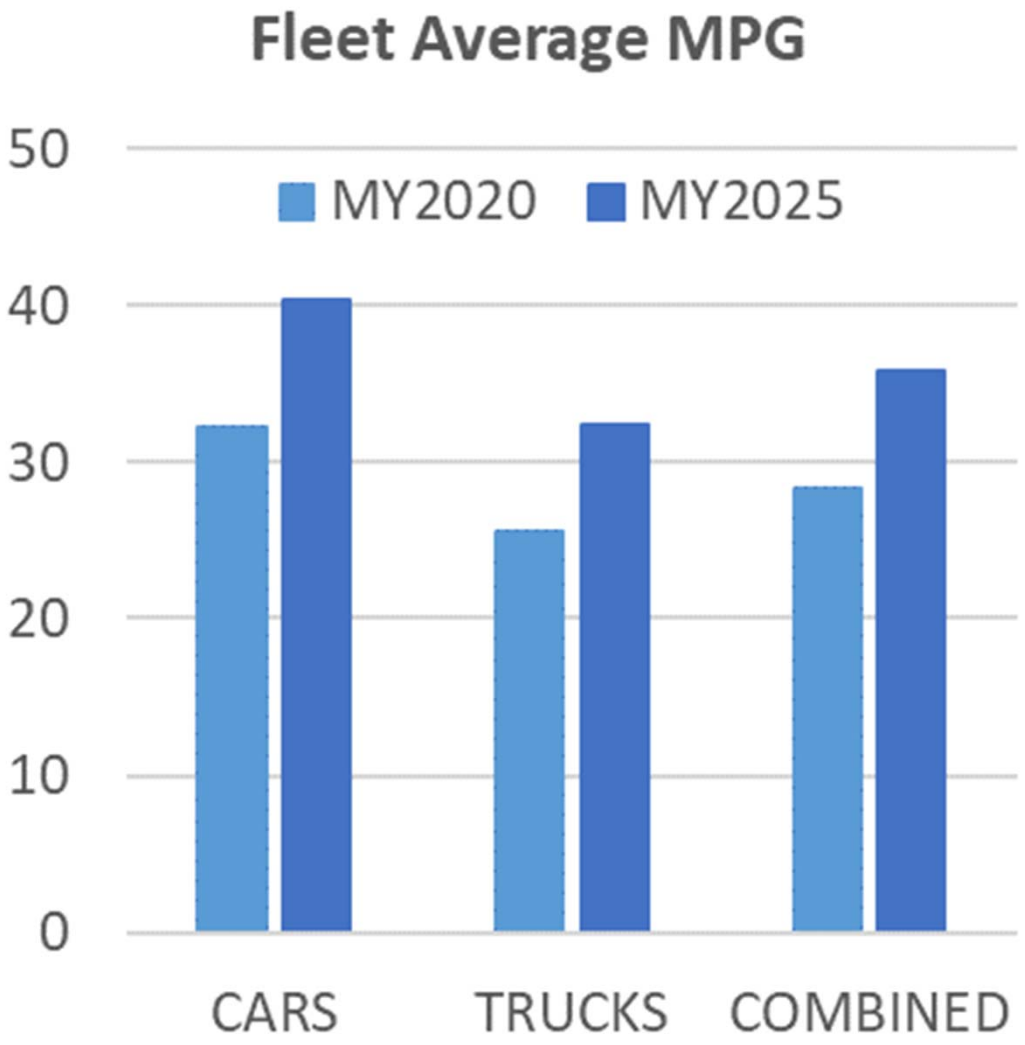
REFERENCES

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 CO_2 emissions (g/mi) were converted to gallons/mi and miles/gallon (MPG) assuming 8,788 g/gallon of CO_2. 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 2019*, 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, 2017) and vehicle miles by state (Table VM-2, 2017) and U.S. Census Bureau data on the number of households by state (occupied housing units, 2017) • 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



- 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

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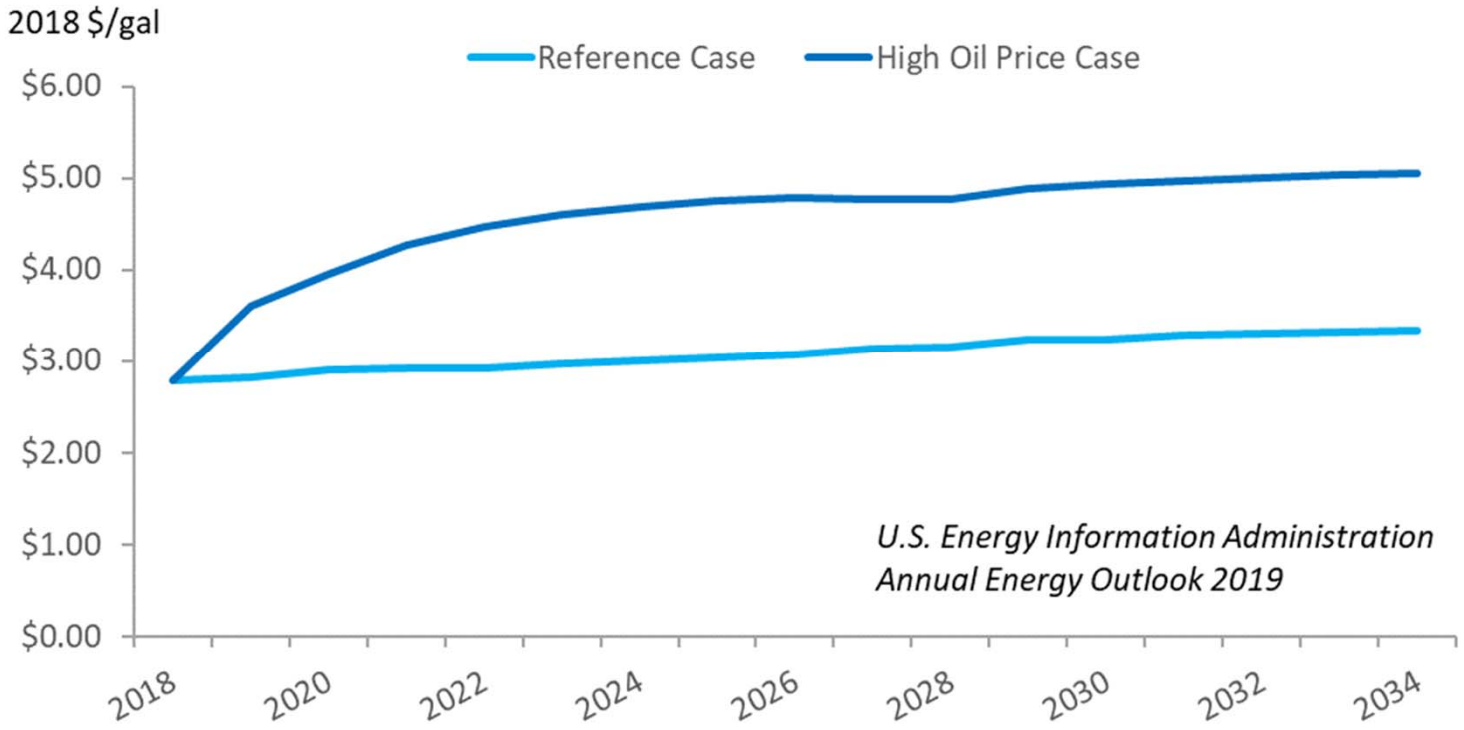
Gasoline Price Projections



This chart shows projected prices in constant 2018 dollars, without inflation. Nominal gasoline prices (including inflation) are projected to reach $4.84/gallon in 2034 under the Reference case, and $8.95/gallon under the High Oil Price case

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