

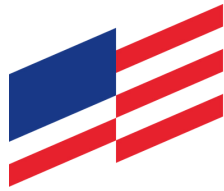


**Hamm Institute  
for American Energy**

OKLAHOMA STATE UNIVERSITY

# **Gasoline Inflation Lagging CPI Since the Shale Oil Revolution**

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# Hamm Institute for American Energy

OKLAHOMA STATE UNIVERSITY

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# Gasoline Inflation Lagging CPI Since the Shale Oil Revolution

## Abstract

Since the emergence of large-scale U.S. shale oil production in the late 2000s, gasoline prices have behaved differently from the broader cost of living faced by U.S. consumers. Using Bureau of Labor Statistics (BLS) data compiled and analyzed by Veriten, this paper examines gasoline price inflation relative to overall Consumer Price Index (CPI) and other major goods and services categories across multiple time horizons. The evidence shows that since 2010, gasoline prices have significantly lagged overall CPI, making energy—particularly gasoline—an important moderating force on household inflation during the shale era. However, longer-term historical comparisons demonstrate that gasoline has also experienced periods of extreme inflation associated with major oil shocks, underscoring the importance of starting point and structural context when interpreting inflation trends.

## 1. Introduction

Energy prices, and gasoline prices in particular, occupy a unique position in inflation discussions. Gasoline is highly visible to consumers, volatile in the short term, and tightly linked to global commodity cycles and geopolitical events. As a result, public perception of inflation is often disproportionately influenced by movements at the gas pump.

This paper evaluates whether gasoline prices have kept pace with, exceeded, or lagged the overall cost of living over time. Drawing exclusively on data and visual exhibits from Veriten's December 2025 analysis, the focus is on three distinct periods: (1) the shale oil era beginning around 2010, (2) the medium-run period shaped by globalization and China/BRICs expansion since the 1990s, and (3) the very long run beginning with the 1970s oil shocks. Together, these perspectives provide a structured view of gasoline's role in U.S. inflation dynamics.

## 2. Gasoline Inflation in the Shale Oil Era (2010–2025)

The most striking result in the Veriten analysis is the clear divergence between gasoline prices and overall CPI since the start of the U.S. shale oil revolution. All price series in the analysis are indexed to 100 in January 2010, allowing for direct comparison across categories.

As shown in Figure 1, overall CPI rose to an index value of 149 by September 2025, implying cumulative inflation of roughly 49% over the period. In contrast, gasoline reached an index value of only 119, corresponding to a cumulative increase of about 19%. Energy

commodities more broadly increased by roughly 20%, while electricity prices rose to an index of 152—slightly above CPI.

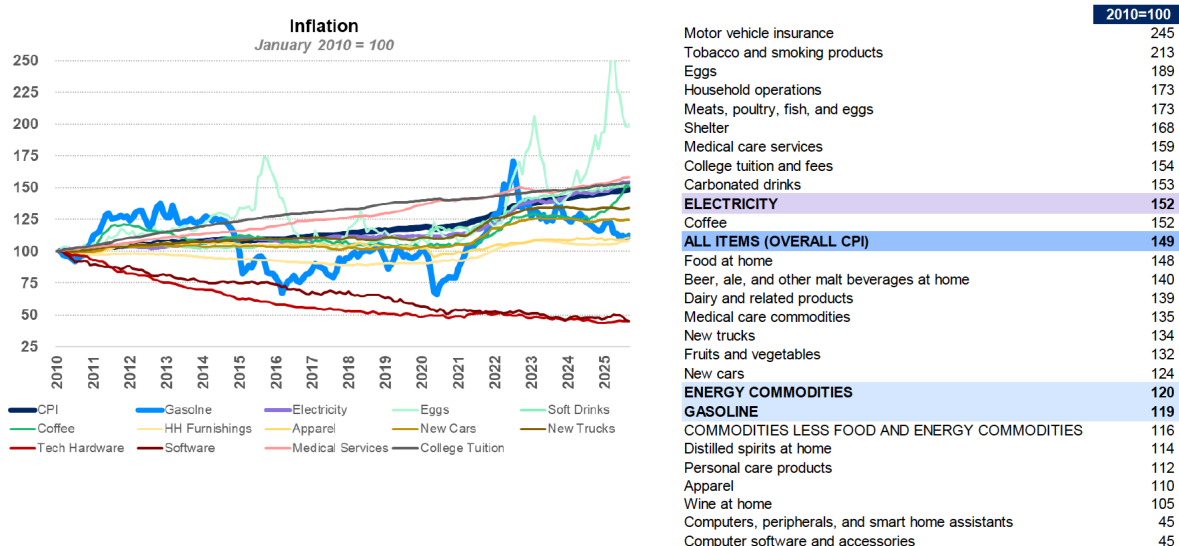


Figure 1: Inflation of gasoline vs select goods and services. Source: BLS, Veriten.

This divergence reflects a structural shift in U.S. energy markets. Expanded domestic oil production increased supply resilience, reduced exposure to global supply shocks, and constrained long-run gasoline price growth relative to other consumer goods and services. While gasoline prices still spiked during periods such as 2021–2022, these increases did not translate into sustained inflation comparable to housing, medical services, or insurance.

### 3. Comparison Across Goods and Services

The shale-era comparison also highlights how gasoline inflation ranks relative to other household expenditures. Categories such as motor vehicle insurance (245), tobacco products (213), eggs (189), shelter (168), and medical care services (159) all substantially outpaced gasoline inflation since 2010.

By contrast, gasoline increased more slowly than: - Overall CPI (149) - Electricity (152) - Food at home (148) - New vehicles and trucks (124–134).

At the lower end of the inflation spectrum, technology-related goods, such as computers and software, experienced dramatic deflation, with index values near 45 by 2025.

End date Sep-25 unless noted	1970=100	1980=100	1990=100	2000=100	2010=100
<b>CPI (ALL ITEMS)</b>	<b>856</b>	<b>416</b>	<b>254</b>	<b>192</b>	<b>149</b>
<b>ENERGY COMMODITIES</b>	<b>1,147</b>	<b>332</b>	<b>302</b>	<b>249</b>	<b>118</b>
<b>GASOLINE</b>	<b>1,022</b>	<b>314</b>	<b>304</b>	<b>243</b>	<b>117</b>
<i>Gasoline less CPI</i>	<i>166</i>	<i>(102)</i>	<i>49</i>	<i>52</i>	<i>(33)</i>
<b>ELECTRICITY</b>	<b>938</b>	<b>423</b>	<b>253</b>	<b>231</b>	<b>154</b>
<b>FOOD/BEVERAGE COMMODITIES</b>					
Food at home	797	372	243	191	147
Meats, poultry, fish, and eggs	767	384	276	231	172
Eggs	475	405	262	276	189
Dairy and related products	617	311	216	169	137
Fruits and vegetables	955	461	240	177	130
Carbonated drinks		293	213	194	153
Coffee					151
Beer, ale, and other malt beverages at home	578	346	232	181	140
Distilled spirits at home		246	175	135	114
Wine at home			160	120	106
<b>COMMODITIES LESS FOOD AND ENERGY COMMODITIES</b>	<b>366</b>	<b>209</b>	<b>137</b>	<b>116</b>	<b>116</b>
<b>GOODS &amp; SERVICES</b>					
Household furnishings and supplies					
Apparel	228	151	111	102	111
New cars	333	204	143	124	125
New trucks			159	126	134
Motor vehicle insurance			519	351	244
Medical care commodities	911	578	265	177	134
Medical care services	2,056	898	411	246	158
Computers, peripherals, and smart home assistants				7	45
Computer software and accessories				25	45
Tobacco and smoking products	3,996	2,390	959	445	212
Personal care products	433	240	145	119	112
Shelter	1,231	551	307	220	169
Household operations				242	174
College tuition and fees		1,423	569	295	153
<b>METALS</b>					
Gold	6,645	390	623	856	195
Silver	1,600	135	585	570	140
Copper	511	343	343	504	121

Figure 2: Inflation indices for major categories since 2010. Source: BLS, Veriten.

This comparison underscores a key conclusion from the Veriten analysis: since the shale revolution, gasoline has acted as a relative hedge against inflation rather than a driver of it.

## 4. Medium-Run Perspective: Globalization and the 1990–2000 Base Years

Looking beyond the shale era, the relationship between gasoline and inflation becomes more nuanced. When prices are indexed to 1990 or 2000 (Figure 3), gasoline and energy commodities show stronger inflation relative to CPI.

Between 1990 and 2025, gasoline rose to an index of approximately 304, exceeding CPI (254) over the same period. This era coincided with rapid industrialization in China and other BRIC economies, which increased global demand for energy and raw materials while simultaneously exerting deflationary pressure on manufactured goods.

	1990=100		2000=100
Tobacco and smoking products	959	Tobacco and smoking products	445
College tuition and fees	569	Motor vehicle insurance	351
Motor vehicle insurance	519	College tuition and fees	295
Medical care services	411	Eggs	276
Shelter	307	<b>ENERGY COMMODITIES</b>	<b>249</b>
<b>GASOLINE</b>	<b>304</b>	Medical care services	246
<b>ENERGY COMMODITIES</b>	<b>302</b>	<b>GASOLINE</b>	<b>243</b>
Meats, poultry, fish, and eggs	276	Household operations	242
Medical care commodities	265	<b>ELECTRICITY</b>	<b>231</b>
Eggs	262	Meats, poultry, fish, and eggs	231
<b>ALL ITEMS (OVERALL CPI)</b>	<b>254</b>	Shelter	220
<b>ELECTRICITY</b>	<b>253</b>	Carbonated drinks	194
Food at home	243	<b>ALL ITEMS (OVERALL CPI)</b>	<b>192</b>
Fruits and vegetables	240	Food at home	191
Beer, ale, and other malt beverages at home	232	Beer, ale, and other malt beverages at home	181
Dairy and related products	216	Fruits and vegetables	177
Carbonated drinks	213	Medical care commodities	177
Distilled spirits at home	175	Dairy and related products	169
Wine at home	160	Distilled spirits at home	135
New trucks	159	New trucks	126
Personal care products	145	New cars	124
New cars	143	Wine at home	120
COMMODITIES LESS FOOD AND ENERGY COMMODITIES	137	Personal care products	119
Apparel	111	COMMODITIES LESS FOOD AND ENERGY COMMODITIES	116
		Apparel	102
		Computer software and accessories	25
		Computers, peripherals, and smart home assistants	7

Figure 3: Gasoline and energy commodities and other goods vs CPI. Source: BLS, Veriten.

This period illustrates that gasoline inflation cannot be evaluated independently of global economic structure. Demand-driven commodity cycles can push gasoline above CPI for extended periods, even if long-run averages appear more balanced.

## 5. Long-Run Perspective: The 1970s Oil Shocks

The longest-run comparison, indexed to 1970 and 1980 (Figure 4), captures the profound impact of the Arab Oil Embargo and subsequent oil supercycles. From a 1970 base, gasoline increased more than tenfold (index ~1,022), outpacing overall CPI (856) but remaining below certain service categories such as medical care.

	1970=100		1980=100
Tobacco and smoking products	3,996	Tobacco and smoking products	2,390
Medical care services	2,056	College tuition and fees	1,423
Shelter	1,231	Medical care services	898
<b>ENERGY COMMODITIES</b>	<b>1,147</b>	Medical care commodities	578
<b>GASOLINE</b>	<b>1,022</b>	Shelter	551
Fruits and vegetables	955	Fruits and vegetables	461
<b>ELECTRICITY</b>	<b>938</b>	<b>ELECTRICITY</b>	<b>423</b>
Medical care commodities	911	<b>ALL ITEMS (OVERALL CPI)</b>	<b>416</b>
<b>ALL ITEMS (OVERALL CPI)</b>	<b>856</b>	Eggs	405
Food at home	797	Meats, poultry, fish, and eggs	384
Meats, poultry, fish, and eggs	767	Food at home	372
Dairy and related products	617	Beer, ale, and other malt beverages at home	346
Beer, ale, and other malt beverages at home	578	<b>ENERGY COMMODITIES</b>	<b>332</b>
Eggs	475	<b>GASOLINE</b>	<b>314</b>
Personal care products	433	Dairy and related products	311
COMMODITIES LESS FOOD AND ENERGY COMMODITIES	366	Carbonated drinks	293
New cars	333	Distilled spirits at home	246
Apparel	228	Personal care products	240
		COMMODITIES LESS FOOD AND ENERGY COMMODITIES	209
		New cars	204
		Apparel	151

Figure 4: CPI of commodities post oil embargo. Source: BLS, Veriten.

These results reinforce a central theme of the analysis: gasoline inflation is highly sensitive to the starting point. Periods that begin before major oil shocks tend to show gasoline as highly inflationary, while periods beginning after structural supply expansions—such as shale—show the opposite.

## 6. Implications and Conclusions

Using the evidence presented in the Veriten December 2025 analysis, several conclusions emerge:

1. **Since 2010, gasoline inflation has materially lagged overall CPI**, reflecting the deflationary influence of the U.S. shale oil revolution.
2. **Electricity prices behave differently from gasoline**, generally tracking or exceeding CPI even during the shale era.
3. **Over longer horizons, gasoline can both exceed and lag CPI**, depending on global demand conditions and the presence of oil supercycles.
4. **Policy and market structure matter**: domestic supply expansion significantly alters inflation outcomes for energy-intensive goods.

Overall, gasoline should not be viewed as a consistently inflationary or deflationary good. Instead, it is best understood as a cyclical commodity whose inflationary role depends critically on global demand, supply structure, and the historical starting point of analysis.

## References

Veriten. *Gasoline Inflation Lagging CPI Since the Shale Oil Revolution*. December 2025.  
Source data: U.S. Bureau of Labor Statistics.



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