

CLEAN CITIES and COMMUNITIES
Alternative Fuel
Price Report



**Clean Cities and
Communities**

Welcome to the October 2024 Issue!

Historically, the prices of compressed natural gas (CNG), liquefied natural gas (LNG) and propane have been much more stable,

What's New in This Issue:

include separate sections addressing those fuels in this publication, due to an insufficient number of data points.

and B20, while prices for LNG and B99/B100 increased or stayed the same. National average retail prices for gasoline and diesel reported by coalition directors decreased by \$0.28/gallon and \$0.23/gallon, respectively, during this period. All of the reported LNG prices were from the West Coast region, where LNG average prices stayed the same and were less than diesel average prices by \$0.06/DGE during this period.

National average CNG prices were \$0.34/GGE less than gasoline and \$0.35/DGE less than diesel in the October 2024 report.

Coast region, where CNG prices were \$0.70/GGE and \$0.02/GGE higher than gasoline, respectively. CNG prices were also lower than diesel in all regions except for New England and the Gulf Coast, with the greatest differences in the West Coast and Lower Atlantic regions, where CNG prices were \$0.83/DGE and \$0.70/DGE less than diesel, respectively.

National average retail prices for E85 were \$0.51/gallon less than national average gasoline prices, with E85 prices lower in all regions, and ranging in prices from \$0.20/gallon less than gasoline in the Central Atlantic region to \$1.05/gallon less than

Renewable Diesel

99 renewable diesel (RD) prices this quarter. Since nearly all the RD prices that we received were from California, we compared the average RD price to the average of diesel prices submitted by directors in California, rather than to national average diesel prices. For the October 2024 report, the average RD price in California was \$5.09/gallon, a \$0.13/gallon increase from July 2024. The average diesel price in California was \$4.92/gallon, a \$0.14/gallon decrease from the previous quarterly period, making average RD prices \$0.17/gallon greater than average diesel prices in California. The three RD prices submitted from the other states were considerably lower than the RD prices in California, bringing the overall average RD price in this report to \$5.05/gallon.

Looking Ahead

Methodology

are grouped by the Petroleum Administration for Defense Districts (PADD). The PADD districts are illustrated in the

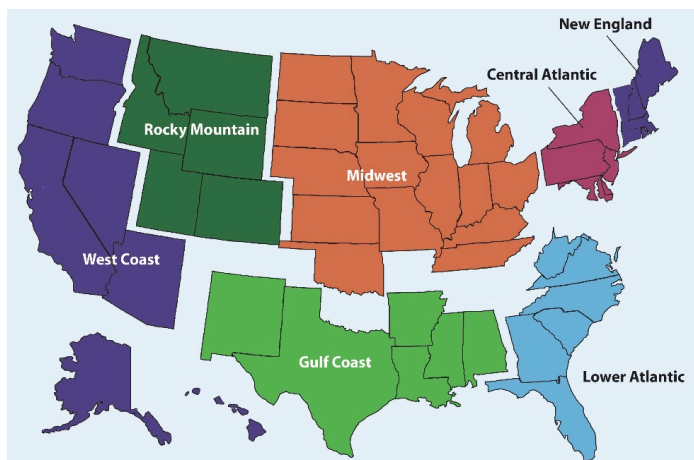


FIGURE 1
PETROLEUM ADMINISTRATION FOR DEFENSE DISTRICTS (PADD)

Some states charge a flat annual fee in lieu of collecting liquefied petroleum gas (LPG or propane). These flat fees

TABLE 1 Number of Data Points Submitted								
Region	Gasoline	Diesel	CNG	LNG	Ethanol	Propane	B20	B99/B100
New England	113	103	19	0	0	57	7	4
Central Atlantic	38	42	57	0	50	44	14	2
Lower Atlantic	226	209	56	0	185	98	5	4
Midwest	563	445	135	0	310	137	52	0
Gulf Coast	199	136	60	0	155	182	33	0
Rocky Mountain	76	76	45	0	31	84	0	1
West Coast	209	144	113	12	108	234	52	3
TOTAL	1424	1155	485	12	839	836	163	14

Public refueling stations are open to the public, while private fueling stations are privately owned or available only to selected fleets.

Summary of Current Report Information



different sample sizes, the inclusion of different

basis, even if that differential does not directly

TABLE 2
National Average Retail Fuel Prices
Conventional and Alternative Fuels, October 2024 *

Fuel Type	July 2024	October 2024	Change in Price July-October	Units of Measurement
Gasoline	\$3.53	\$3.25	-\$0.28	per gallon
Diesel	\$3.87	\$3.64	-\$0.23	per gallon
CNG	\$2.92	\$2.91	-\$0.01	per GGE
LNG	\$4.68	\$4.68	\$0.00	per DGE
Ethanol (E85)	\$2.99	\$2.74	-\$0.25	per gallon
Propane**	\$3.42	\$3.35	-\$0.07	per gallon
Biodiesel (B20)	\$3.73	\$3.53	-\$0.20	per gallon
Biodiesel (B99/B100)	\$4.02	\$4.04	\$0.02	per gallon

TABLE 3
National Average Retail Fuel Prices on an Energy-Equivalent Basis,
October 2024 *

	Per Gasoline Gallon Equivalent (\$/GGE)	Per Diesel Gallon Equivalent (\$/DGE)	Per Million British Thermal Units (\$/MBtu)
Gasoline	\$3.25	\$3.67	\$28.43
Diesel	\$3.24	\$3.64	\$28.28
CNG	\$2.91	\$3.29	\$25.46
LNG	\$4.16	\$4.68	\$36.36
Ethanol (E85)	\$3.56	\$4.03	\$40.64
Propane**	\$4.58	\$5.15	\$54.85
Biodiesel (B20)	\$3.18	\$3.60	\$25.16
Biodiesel (B99/B100)	\$3.96	\$4.45	\$33.82

Liquid fuels have differing energy contents content can differ somewhat from the price paid energy-equivalent basis, i.e., \$/GGE or \$/DGE,

B of the Oak Ridge National Laboratory’s Transportation Energy Data Book.

A very small sample (18 points) of hydrogen information was received, with an average price of \$34.06./GGE. For ethanol flexible-fuel vehicles (FFVs), the actual difference in fuel used per mile is somewhat less than would be calculated simply on the difference in energy content of the fuels. Some sources have noted that some FFVs can achieve better energy efficiency (miles per unit of energy) on E85 than on gasoline. This effect is not currently included in these calculations as the magnitude of the effect varies by specific FFV model. <https://tedb.ornl.gov/>

Gasoline and Diesel Prices: Clean Cities and Communities and EIA Data

Table 4 shows gasoline and diesel prices submitted by coalition directors on a voluntary basis between October 1 and October 15, 2024, compared to prices from the petroleum information section of the Energy Information Administration (EIA) website for the week of October 7, 2024.

EIA data points are weighted to reflect

TABLE 4 Average Retail Gasoline and Diesel Prices by Region, in \$/gal from Clean Cities and EIA* Sources						
Region	Gasoline Prices			Diesel Prices		
	Clean Cities	EIA**	Difference***	Clean Cities	EIA**	Difference***
New England	\$3.12	\$3.01	\$0.11	\$3.84	\$3.77	\$0.07
Central Atlantic	\$2.99	\$3.18	-\$0.19	\$3.47	\$3.82	-\$0.35
Lower Atlantic	\$3.13	\$2.90	\$0.23	\$3.50	\$3.45	\$0.05
Midwest	\$2.99	\$3.04	-\$0.05	\$3.51	\$3.59	-\$0.08
Gulf Coast	\$2.81	\$2.73	\$0.08	\$3.08	\$3.27	-\$0.19
Rocky Mountain	\$3.33	\$3.27	\$0.06	\$3.50	\$3.62	-\$0.12
West Coast	\$4.61	\$4.03	\$0.58	\$4.74	\$4.26	\$0.48
NATIONAL AVERAGE	\$3.25	\$3.14	\$0.11	\$3.64	\$3.58	\$0.06

*EIA prices are from the petroleum information section of the EIA website, week of 10/07/2024.

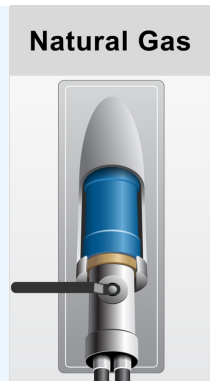
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http://www.eia.gov/dnav/pet/xls/PET_PRI_GND_A_EPD2D_PTE_DPGAL_W.xls

Compressed Natural Gas (CNG) Relative to Gasoline

TABLE 5
Compressed Natural Gas (CNG) and Gasoline
Average Retail Prices by Region

Region	CNG Prices (\$/GGE*)	Gasoline Prices (\$/gal)	Price Difference**
New England	\$3.82	\$3.12	\$0.70
Central Atlantic	\$2.94	\$2.99	-\$0.05
Lower Atlantic	\$2.47	\$3.13	-\$0.66
Midwest	\$2.66	\$2.99	-\$0.33
Gulf Coast	\$2.83	\$2.81	\$0.02
Rocky Mountain	\$2.56	\$3.33	-\$0.77
West Coast	\$3.46	\$4.61	-\$1.15
NATIONAL AVERAGE	\$2.91	\$3.25	-\$0.34

The prices shown in Table 5 were submitted by coalition directors on a voluntary basis between October 1 and October 15, 2024.

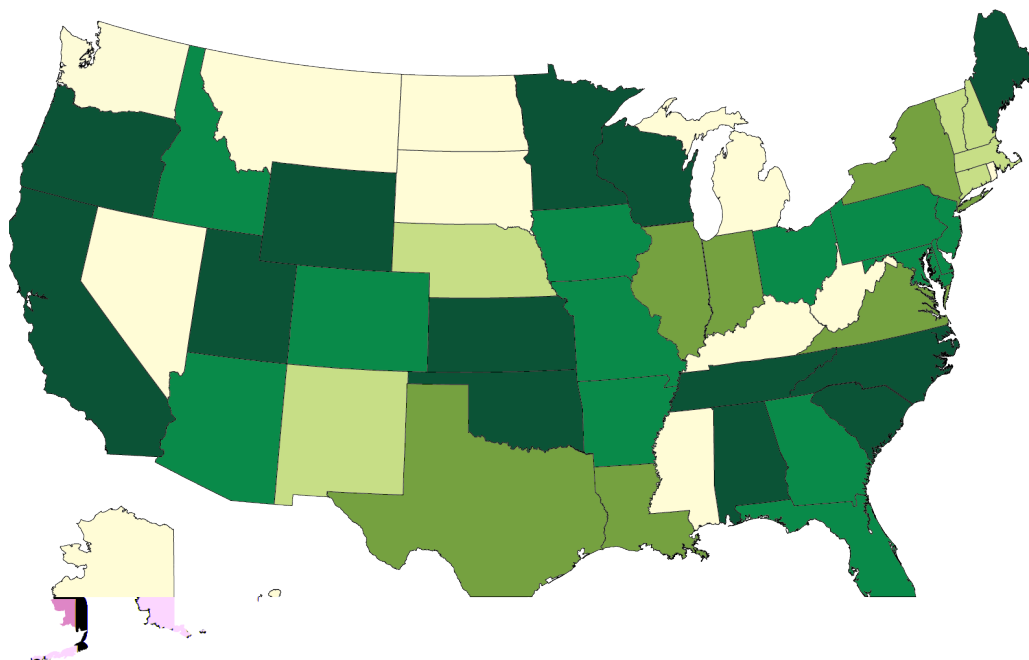


**Negative numbers represent average CNG prices that are lower than gasoline, on a \$/GGE basis.

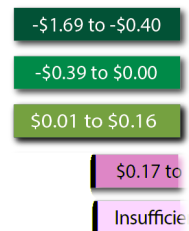
given in \$/gasoline

retail fuel prices. Alternative fuel fleets can obtain significantly lower fuel prices than

Contract prices will vary, depending on fleet



CNG Price Difference Relative to Gasoline



In this map, negative numbers represent prices for CNG that are lower than gasoline, on a per gasoline gallon equivalent basis. States not highlighted with a color did not have any CNG data points in the current report.

FIGURE 2
PRICE DIFFERENTIALS BY STATE FOR COMPRESSED NATURAL GAS (CNG) RELATIVE TO GASOLINE

Compressed Natural Gas (CNG) Relative to Gasoline, cont.

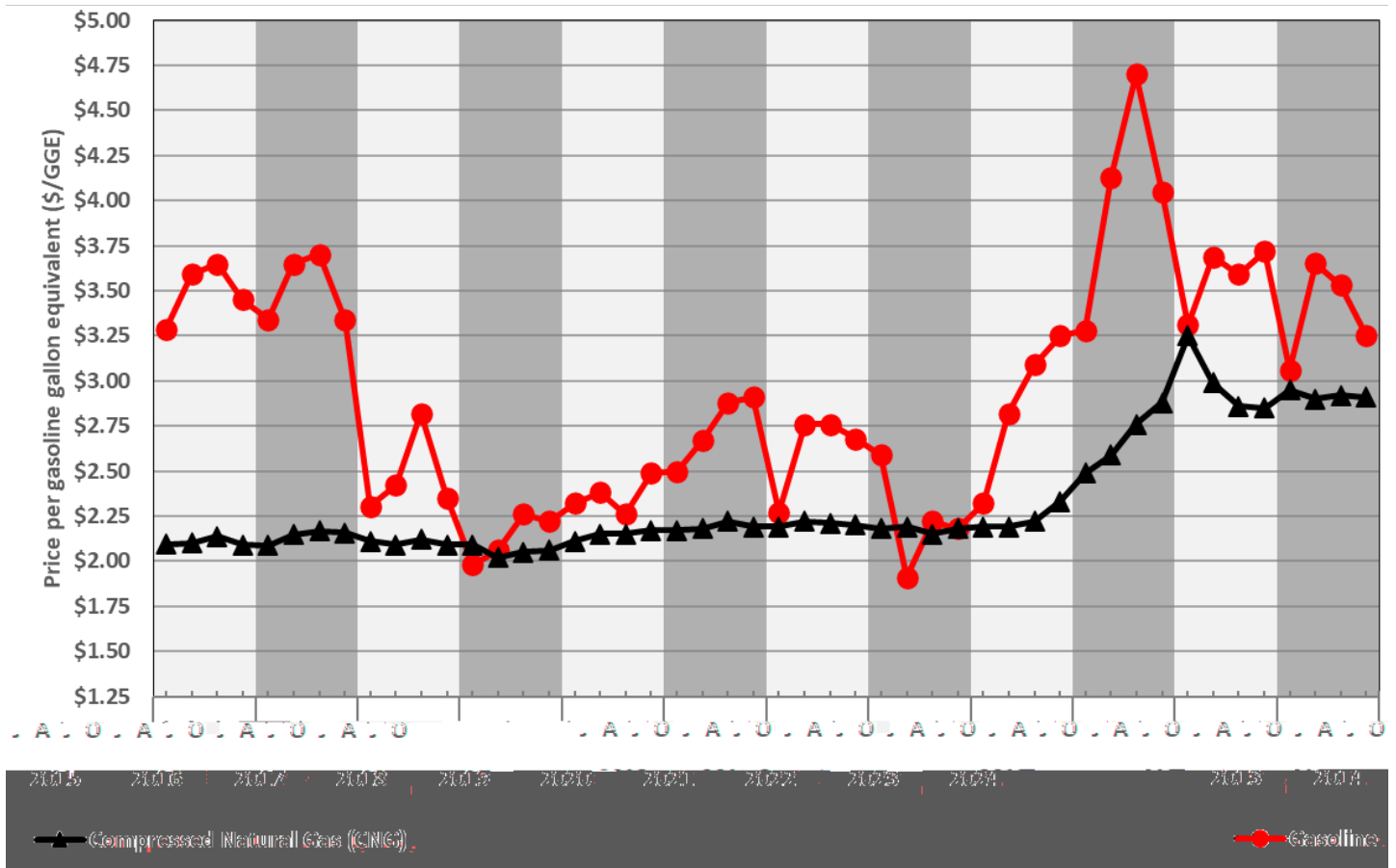


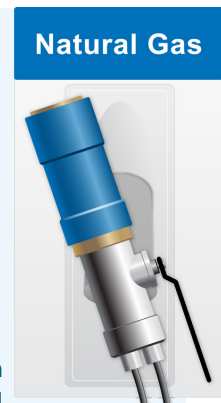
FIGURE 3
HISTORICAL COMPRESSED NATURAL GAS (CNG) PRICES VERSUS GASOLINE

Compressed Natural Gas (CNG) Relative to Diesel

Region	CNG Prices (\$/DGE*)	Diesel Prices (\$/gal)	Price Difference**
New England	\$4.32	\$3.84	\$0.48
Central Atlantic	\$3.32	\$3.47	-\$0.15
Lower Atlantic	\$2.80	\$3.50	-\$0.70
Midwest	\$3.00	\$3.51	-\$0.51
Gulf Coast	\$3.20	\$3.08	\$0.12
Rocky Mountain	\$2.89	\$3.50	-\$0.61
West Coast	\$3.91	\$4.74	-\$0.83
NATIONAL AVERAGE	\$3.29	\$3.64	-\$0.35

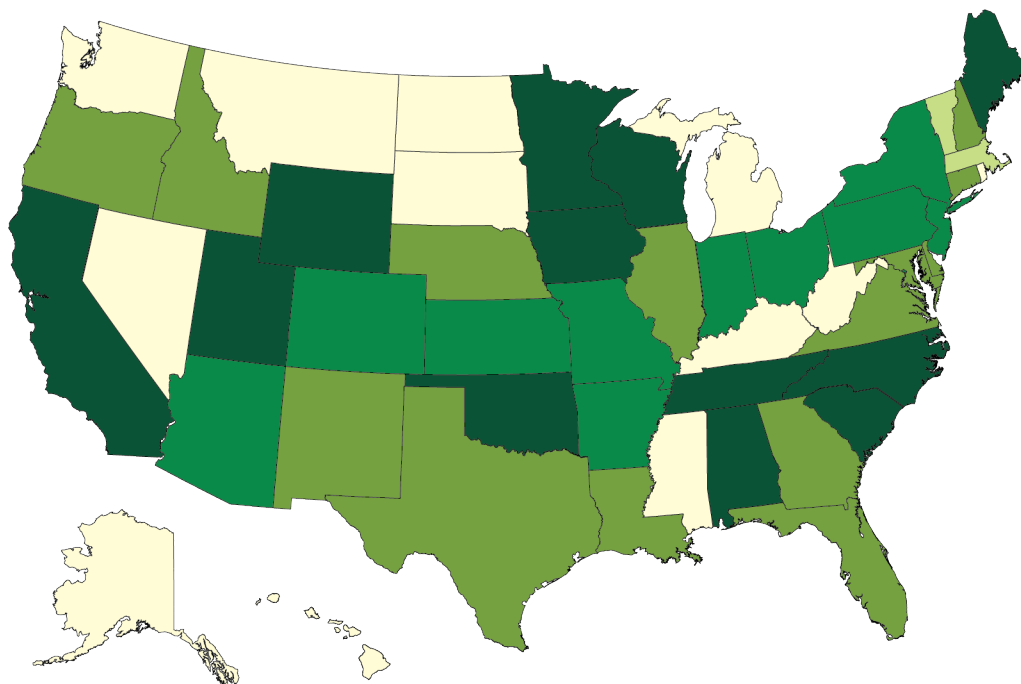
*DGE = diesel gallon equivalent

** Negative numbers represent average CNG prices that are lower than diesel, on a \$/DGE basis.



The prices shown in Table 6 were submitted by coalition directors on a voluntary basis between October 1 and October 15, 2024.

converted to \$/diesel (\$/DGE) for easy comparison to diesel prices. Alternative fuel fleets can obtain significantly lower fuel prices than diesel prices. Contract prices will vary, depending on fleet size and location.



In this map, negative numbers represent prices for CNG that are lower than diesel, on a per diesel gallon equivalent basis. States not highlighted with a color did not have any CNG data points in the current report.

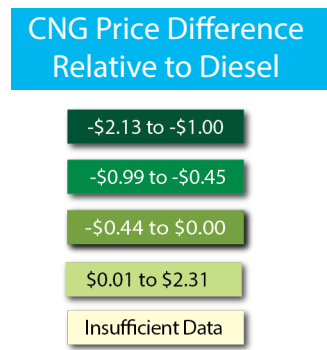


FIGURE 4
PRICE DIFFERENTIALS BY STATE FOR COMPRESSED NATURAL GAS (CNG) RELATIVE TO DIESEL

Compressed Natural Gas (CNG) Relative to Diesel, cont.

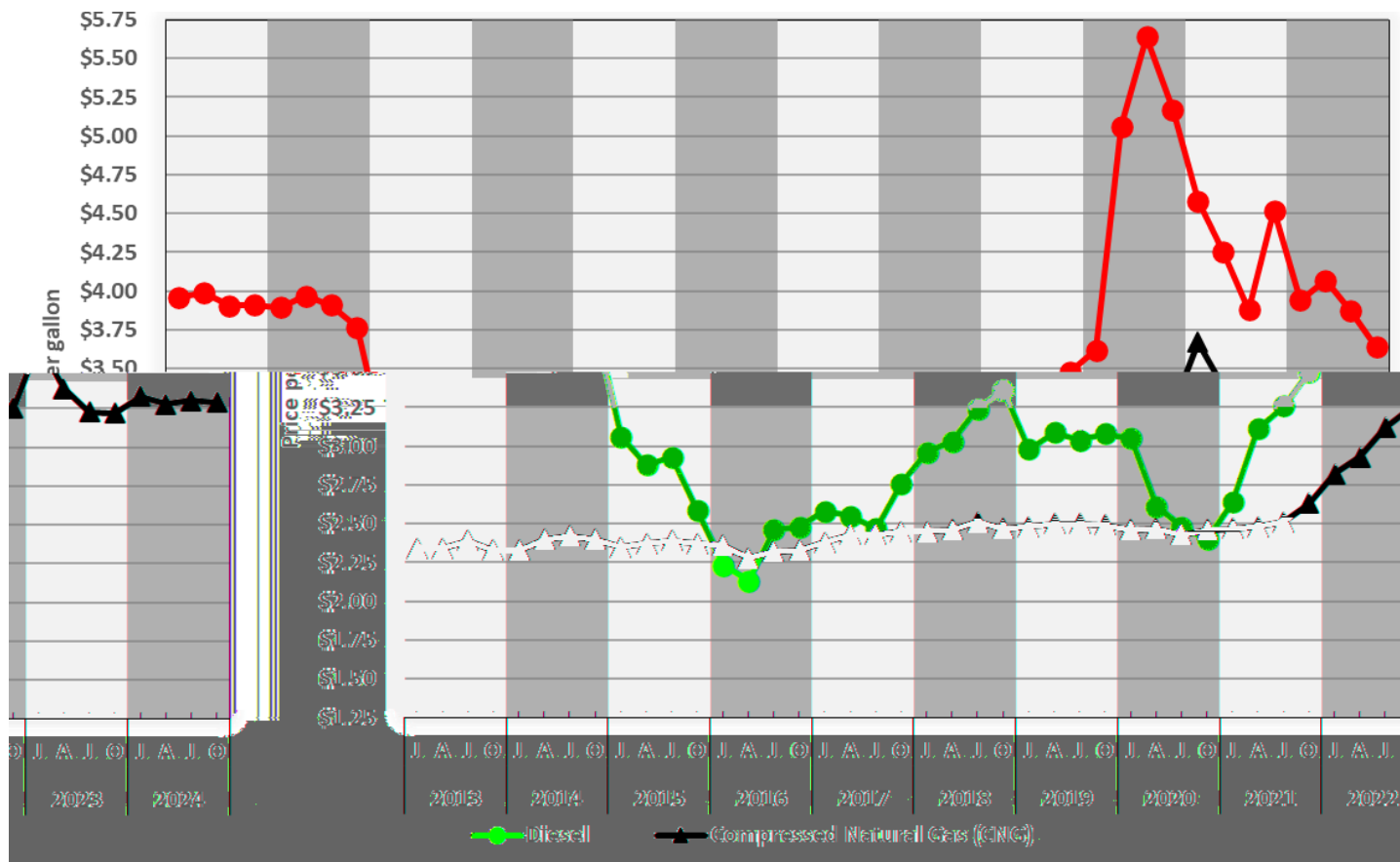


FIGURE 5
HISTORICAL COMPRESSED NATURAL GAS (CNG) PRICES VERSUS DIESEL

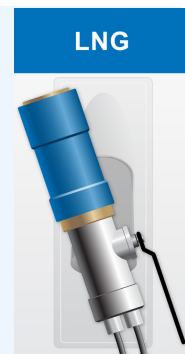
Liquefied Natural Gas (LNG) Relative to Diesel

TABLE 7
Liquefied Natural Gas (LNG) and Diesel
Average Retail Prices by Region

Region	LNG Prices (\$/DGE*)	Diesel Prices (\$/gal)	Price Difference**
New England	---	\$3.84	---
Central Atlantic	---	\$3.47	---
Lower Atlantic	---	\$3.50	---
Midwest	---	\$3.51	---
Gulf Coast	---	\$3.08	---
Rocky Mountain	---	\$3.50	---
West Coast	\$4.68	\$4.74	-\$0.06
NATIONAL AVERAGE	\$4.68	\$3.64	\$1.04

*DGE = diesel gallon equivalent

** Negative numbers represent average LNG prices that are lower than diesel, on a \$/DGE basis.



The prices shown in Table 7 were submitted by coalition directors on a voluntary basis between October 1 and October 15, 2024.

LNG prices in Table 7 were

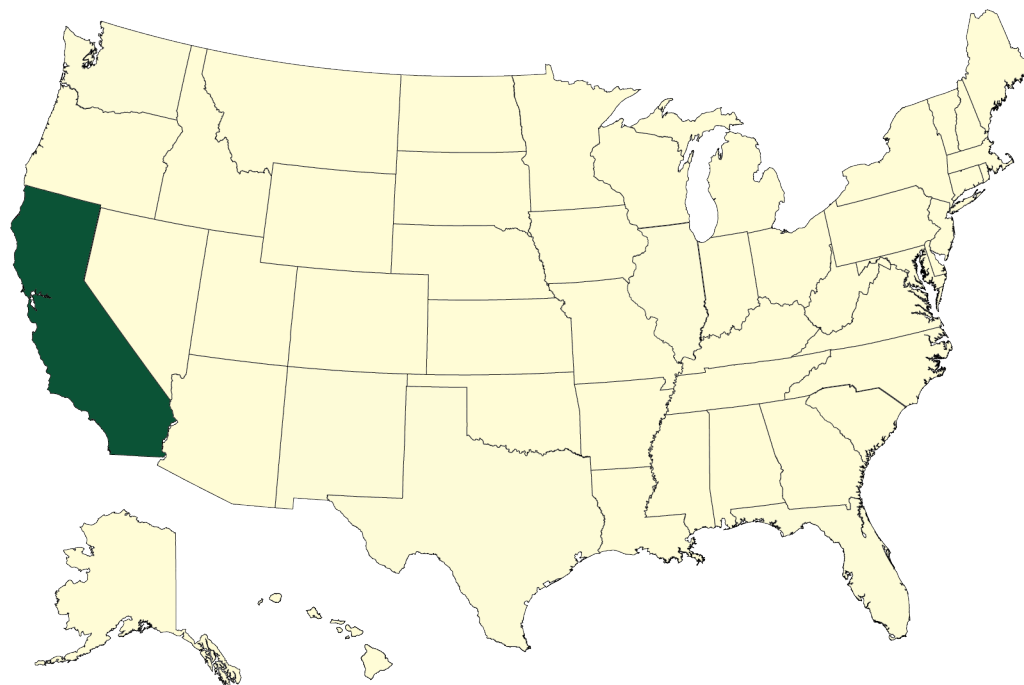
the pump,” given in \$/diesel gallon equivalent (DGE), and

content of natural gas can vary. LNG

DGE for the actual gas being sold.

reporting period, LNG

equivalent (DGE) basis.



In this map, negative numbers represent prices for LNG that are lower than diesel, on a per gallon basis. States not highlighted with a color did not have any LNG data points in the current report.

LNG Price Difference Relative to Diesel



FIGURE 6
PRICE DIFFERENTIALS BY STATE FOR LIQUEFIED NATURAL GAS (LNG) RELATIVE TO DIESEL

Liquefied Natural Gas (LNG), cont.

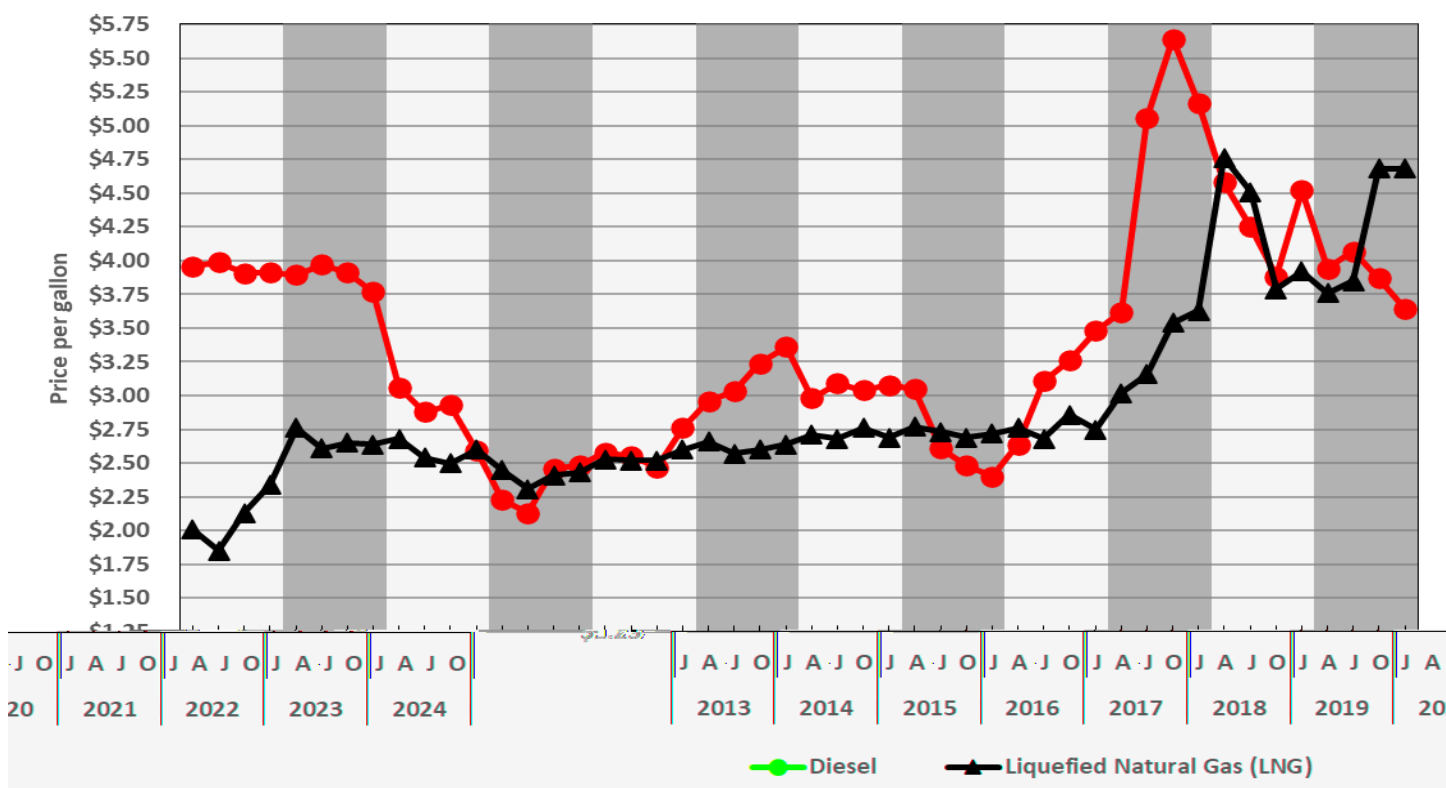


FIGURE 7
HISTORICAL LIQUEFIED NATURAL GAS (LNG) PRICES VERSUS DIESEL

NOTE: While LNG data had not been shown in a separate section in this report prior to the July 2016 issue, we do have a record of historical prices submitted by Clean Cities directors. We have, therefore, included Figure 7, showing historical LNG vs. Diesel prices, as well as Table 12d, comparing LNG prices submitted for this report and the prior report.

Ethanol (E85) Relative to Gasoline

Region	E85 Prices (\$/gal)	Gasoline Prices (\$/gal)	Price Difference*
New England	---	\$3.12	---
Central Atlantic	\$2.79	\$2.99	-\$0.20
Lower Atlantic	\$2.69	\$3.13	-\$0.44
Midwest	\$2.59	\$2.99	-\$0.40
Gulf Coast	\$2.48	\$2.81	-\$0.33
Rocky Mountain	\$2.92	\$3.33	-\$0.41
West Coast	\$3.56	\$4.61	-\$1.05
NATIONAL AVERAGE	\$2.74	\$3.25	-\$0.51

*Negative numbers represent average E85 prices that are lower than gasoline, on a \$/gal basis.

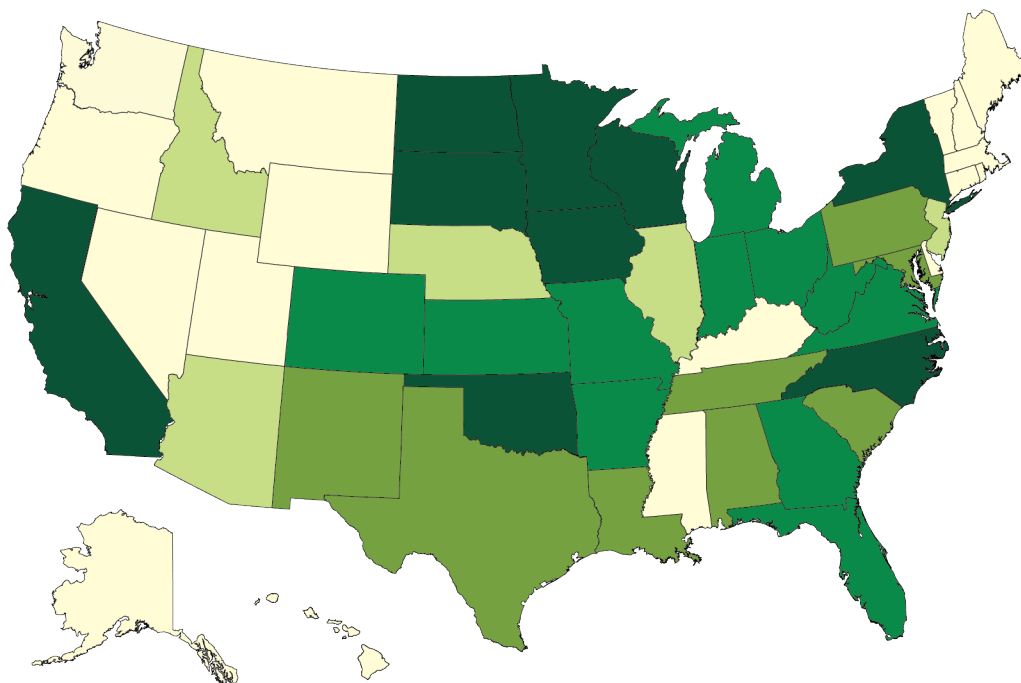


The prices shown in Table 8 were submitted by coalition directors on a voluntary basis between October 1 and October 15, 2024.

Most gasoline available throughout the

content), to more closely reflect the

See page 27 for a \$/GGE



In this map, negative numbers represent prices for E85 that are lower than gasoline, on a per gallon basis. States not highlighted with a color did not have any E85 data points in the current report.

E85 Price Difference Relative to Gasoline

- \$1.17 to -\$0.55
- \$0.54 to -\$0.35
- \$0.34 to \$0.00
- \$0.01 to \$1.00
- Insufficient Data

FIGURE 8
PRICE DIFFERENTIALS BY STATE FOR ETHANOL (E85) RELATIVE TO GASOLINE

Ethanol (E85) Relative to Gasoline, cont.

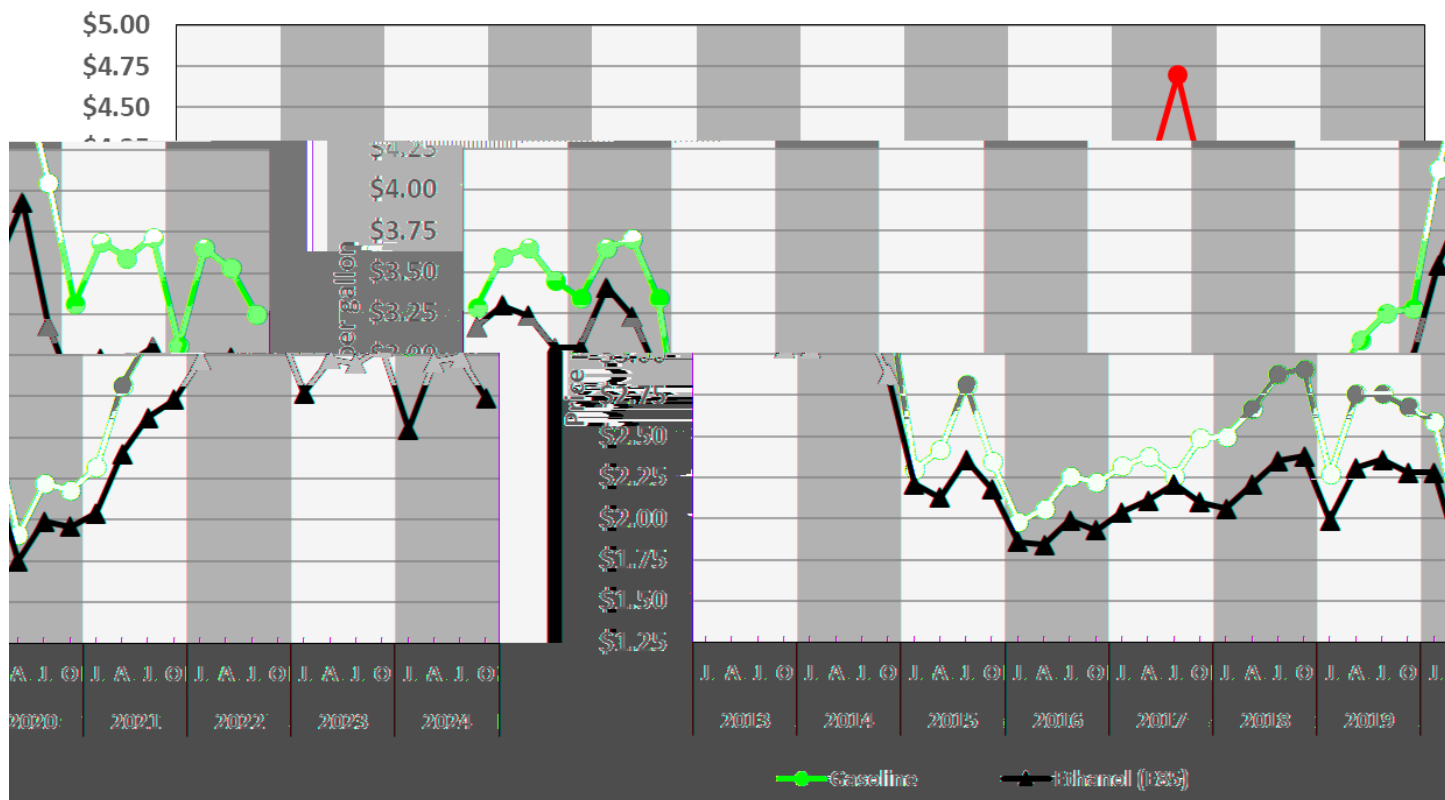


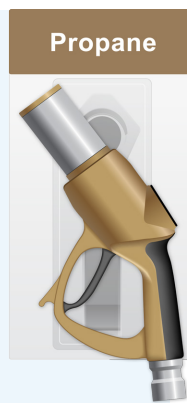
FIGURE 9
HISTORICAL ETHANOL (E85) PRICES VERSUS GASOLINE

Propane (LPG) Relative to Gasoline

TABLE 9
Propane (LPG) and Gasoline
Average Retail Prices by Region

Region	LPG Prices (\$/gal)	Gasoline Prices (\$/gal)	Price Difference*
New England	\$3.53	\$3.12	\$0.41
Central Atlantic	\$2.86	\$2.99	-\$0.13
Lower Atlantic	\$3.27	\$3.13	\$0.14
Midwest	\$3.40	\$2.99	\$0.41
Gulf Coast	\$3.18	\$2.81	\$0.37
Rocky Mountain	\$3.28	\$3.33	-\$0.05
West Coast	\$3.54	\$4.61	-\$1.07
NATIONAL AVERAGE	\$3.35	\$3.25	\$0.09

*Negative numbers represent average propane prices that are lower than gasoline, on a \$/gal basis.

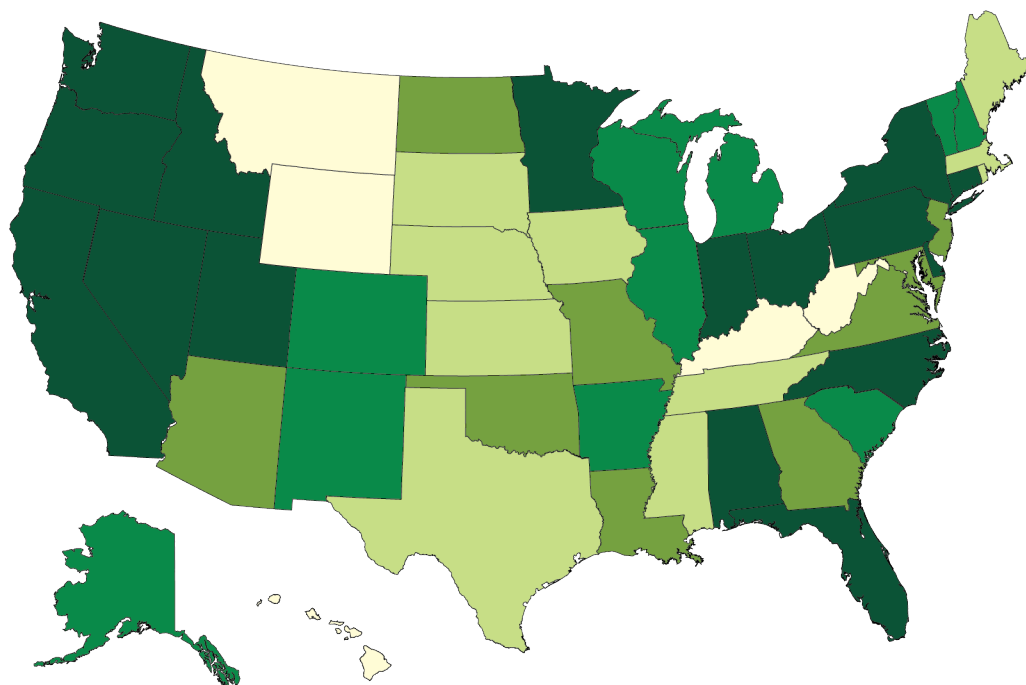


The prices shown in Table 9 were submitted by coalition directors on a voluntary basis between October 1 and October 15, 2024.

fleet refueling stations and

for \$/GGE.

Note: The AFPR is a snapshot in time of retail fuel prices. Alternative fuel fleets can obtain significantly lower fuel prices than those reported in the AFPR by entering into contracts directly with local fuel suppliers. Contract prices will vary, depending on fleet size and amount of fuel to be purchased, distance from the supplier, region of the country and other factors.



In this map, negative numbers represent prices for propane that are lower than gasoline, on a per gallon basis. States not highlighted with a color did not have any propane data points in the current report.

LPG Price Difference Relative to Gasoline

- \$1.06 to \$0.00
- \$0.01 to \$0.30
- \$0.31 to \$0.60
- \$0.61 to \$1.23
- Insufficient Data

FIGURE 10
PRICE DIFFERENTIALS BY STATE FOR PROPANE (LPG) RELATIVE TO GASOLINE

Because many propane retailers provide fuel for non-vehicle uses (camping stoves, gas grills, etc.), the National Renewable Energy Laboratory (NREL) has worked with suppliers to clarify the differences. On the Alternative Fuels Data Center Station Locator website (<http://www.afdc.energy.gov/locator/stations/>) service type. Both types are able to fuel vehicles; however, stations designated as “primary” have indicated they have facilities and billing procedures specifically designed for vehicle customers. They may also offer special vehicle pricing and most accept major credit cards, similar to traditional gasoline/diesel retailers. Propane pricing reported here reflects a sampling of both primary and

Propane (LPG) Relative to Gasoline, cont.

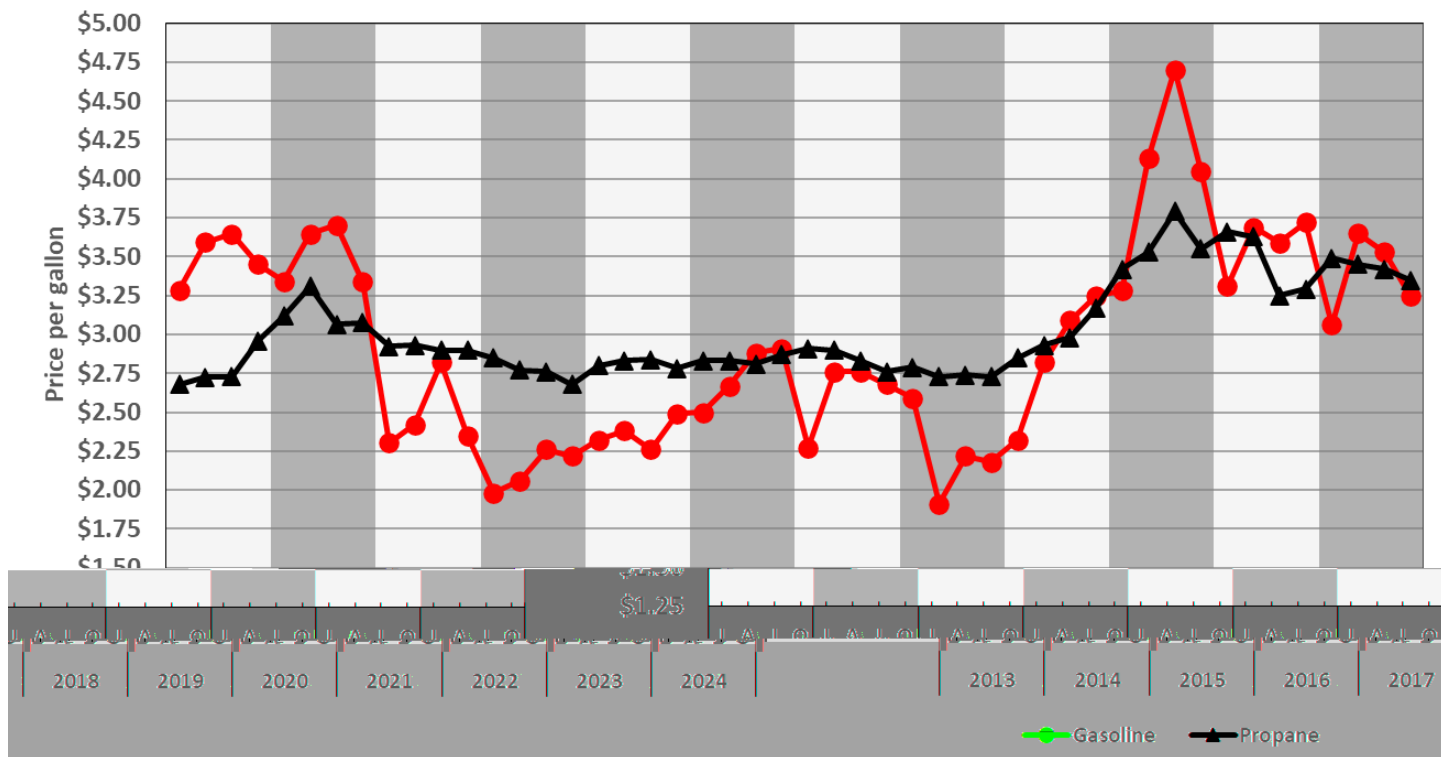


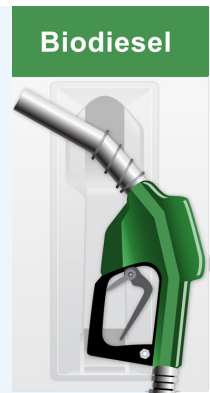
FIGURE 11
HISTORICAL PROPANE (LPG) PRICES VERSUS GASOLINE

Biodiesel Blends: Biodiesel (B20) Relative to Diesel

TABLE 10
Biodiesel (B20) and Diesel
Average Retail Prices by Region

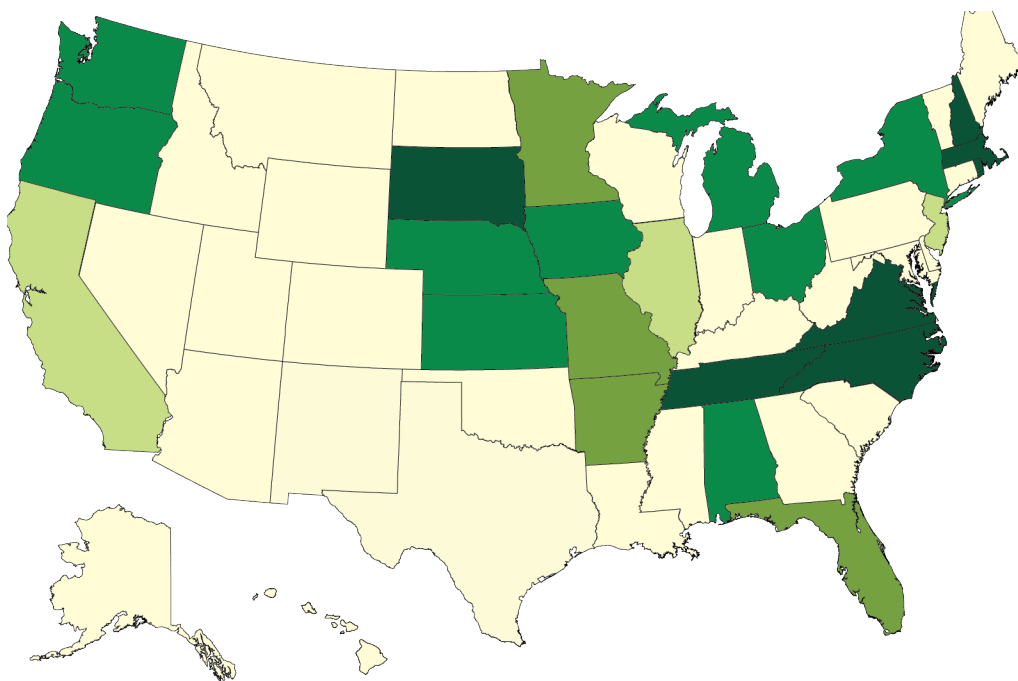
Region	B20 Prices (\$/gal)	Diesel Prices (\$/gal)	Price Difference*
New England	\$3.36	\$3.84	-\$0.48
Central Atlantic	\$3.35	\$3.47	-\$0.12
Lower Atlantic	\$2.82	\$3.50	-\$0.68
Midwest	\$3.41	\$3.51	-\$0.10
Gulf Coast	\$3.27	\$3.08	\$0.19
Rocky Mountain	---	\$3.50	---
West Coast	\$3.94	\$4.74	-\$0.80
NATIONAL AVERAGE	\$3.53	\$3.64	-\$0.11

*Negative numbers represent average B20 prices that are lower than diesel, on a \$/gal basis.



The prices shown in Table 10 were submitted by coalition directors on a voluntary basis between October 1 and October 15, 2024.

calculating B20 prices on a GGE and DGE basis can be



In this map, negative numbers represent prices for B20 that are lower than diesel, on a per gallon basis. States not highlighted with a color did not have any B20 data points in the current report.

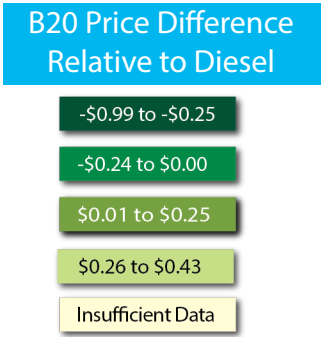


FIGURE 12
PRICE DIFFERENTIALS BY STATE FOR BIODIESEL (B20) RELATIVE TO DIESEL

Biodiesel Blends: B20 Relative to Diesel, cont.

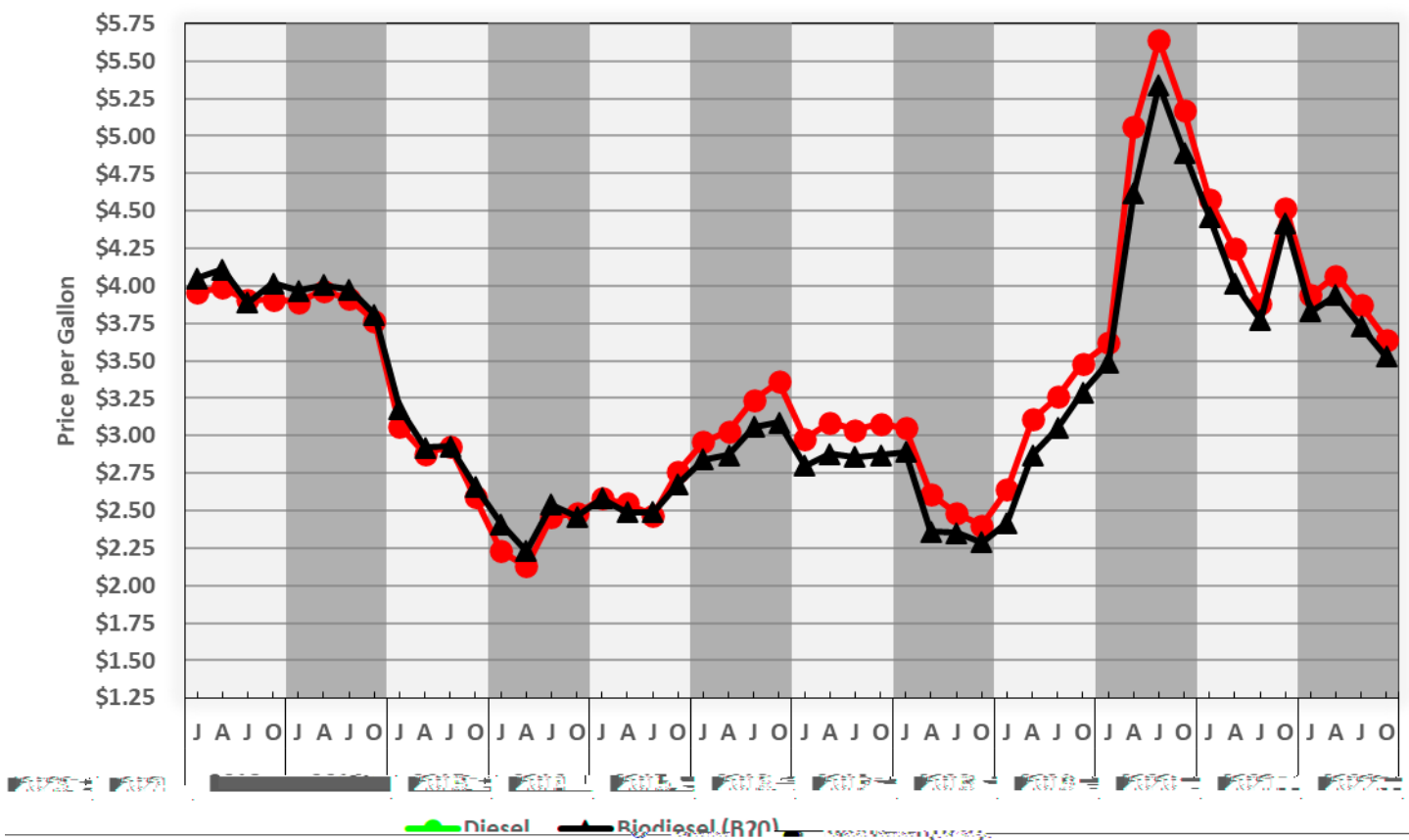
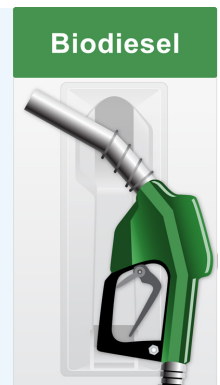


FIGURE 13
HISTORICAL BIODIESEL (B20) PRICES VERSUS DIESEL

Biodiesel Blends: Biodiesel (B99/B100) Relative to Diesel

Region	B99/B100 Prices (\$/gal)	Diesel Prices (\$/gal)	Price Difference*
New England	\$3.86	\$3.84	\$0.02
Central Atlantic	\$2.65	\$3.47	-\$0.82
Lower Atlantic	\$4.00	\$3.50	\$0.50
Midwest	---	\$3.51	---
Gulf Coast	---	\$3.08	---
Rocky Mountain	\$4.63	\$3.50	\$1.13
West Coast	\$5.08	\$4.74	\$0.34
NATIONAL AVERAGE	\$4.04	\$3.64	\$0.41

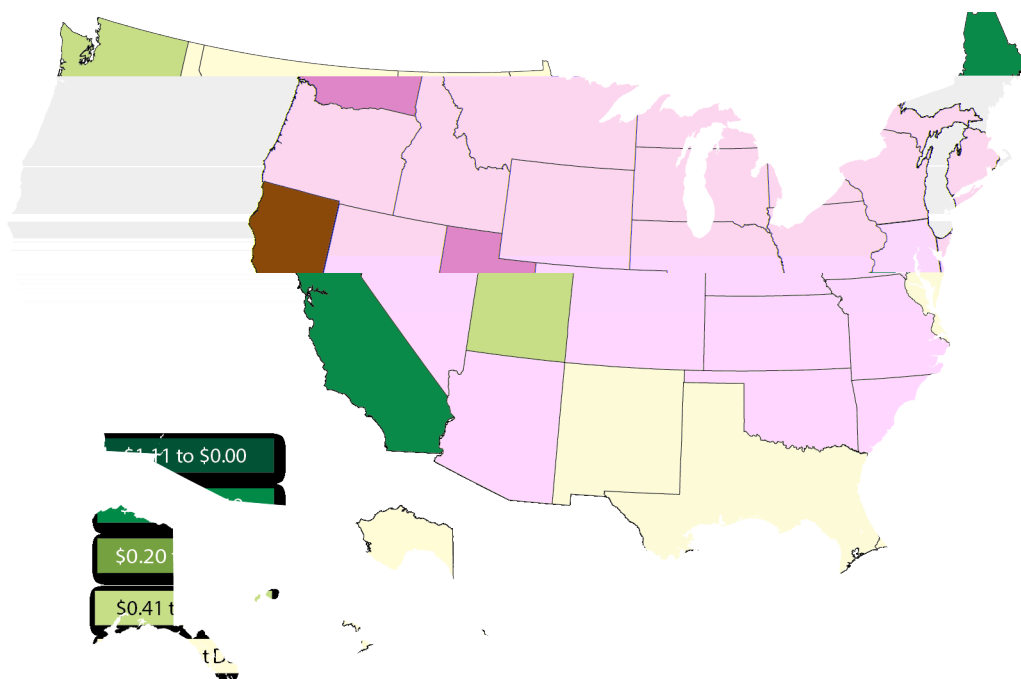
*Negative numbers represent average B99/B100 prices that are lower than diesel, on a \$/gal



The prices shown in Table 11 were submitted by coalition directors on a voluntary basis between October 1 and October 15, 2024.

prices on a GGE and DGE basis can be

period, B99/B100 cost \$0.41 more



In this map, negative numbers represent prices for B99/B100 that are lower than diesel, on a per gallon basis. States not highlighted with a color did not have any B99/B100 data points in the current report.

B99/B100 Price Difference Relative to Diesel

FIGURE 14
PRICE DIFFERENTIALS BY STATE FOR BIODIESEL (B99/B100) RELATIVE TO DIESEL

Renewable Diesel Relative to Diesel (California only)

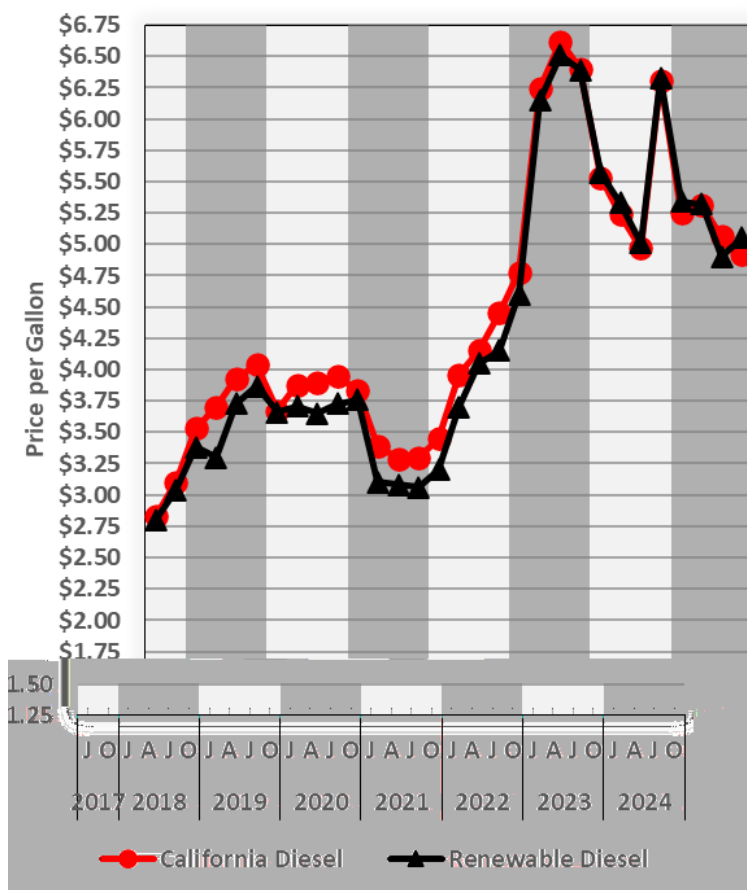


FIGURE 16
HISTORICAL RENEWABLE DIESEL PRICES VERSUS CALIFORNIA DIESEL

Renewable diesel (RD) is a biomass-derived transportation fuel that is chemically similar to petroleum diesel and is suitable for use in conventional diesel engines. It meets the ASTM D975 specification in the United States. RD is produced through various processes such as hydrotreating, gasification, pyrolysis and other thermochemical and biochemical means, and can be

Since January 2017, coalition directors have been recording and submitting prices for RD. From 2018 through July 2023, all of the RD prices reported were from California (CA), so we have been showing RD prices compared to CA average diesel prices, rather than to national average diesel prices. For the October 2024 report, directors reported 96 RD prices from CA and one price each from Idaho, Rhode Island and Wyoming. The average retail price for RD in CA for this report was \$5.09/gallon, while the average retail diesel price in CA was \$4.92/gallon. The three RD prices from the other states were significantly lower than in CA, averaging \$3.66/gallon, bringing the overall average price of RD in this report to \$5.05/gallon.

* National Renewable Energy Laboratory, https://afdc.energy.gov/fuels/emerging_hydrocarbon.html

Historical Alternative Fuel Prices from Previous Reports

against gasoline prices, while compressed natural gas (in DGE), liquefied natural gas (in DGE), and biodiesel blends (B20 and B99/B100) have been graphed against diesel prices.

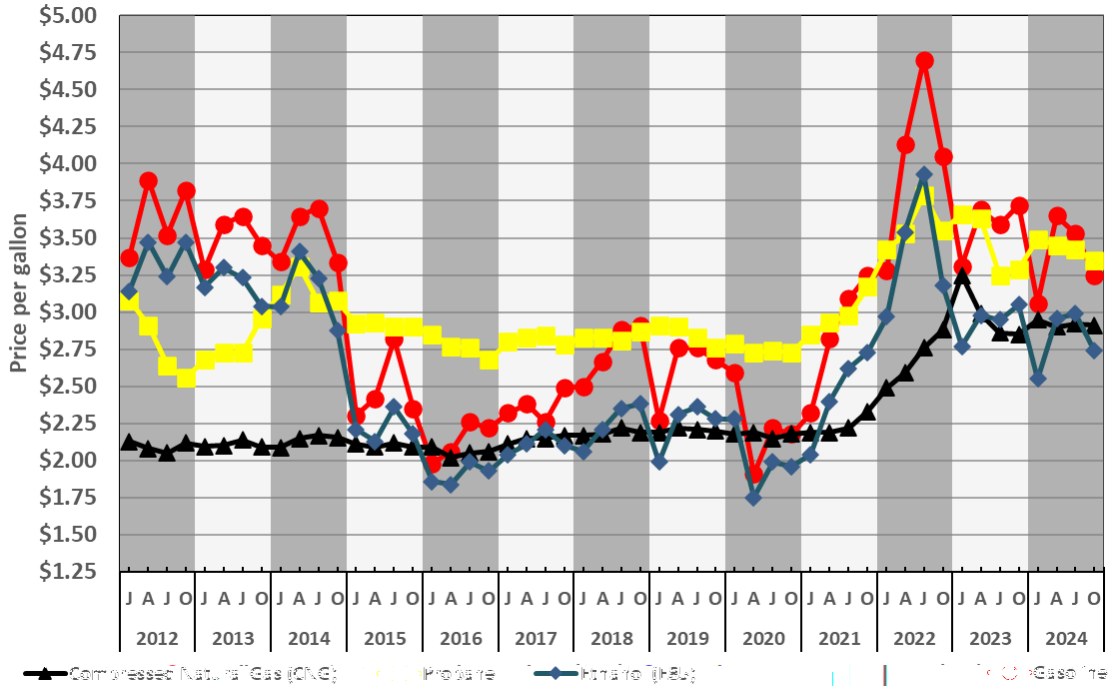


FIGURE 17
ALTERNATIVE FUEL PRICES VERSUS GASOLINE

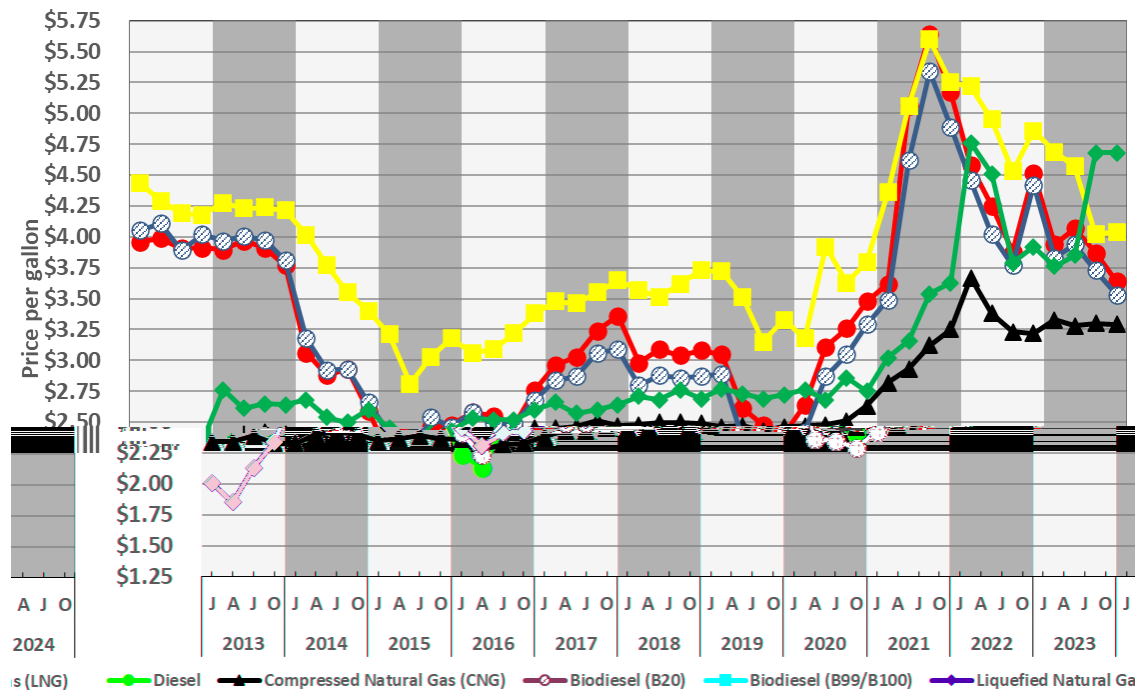


FIGURE 18
ALTERNATIVE FUEL PRICES VERSUS DIESEL

Comparison of Prices: This Report Versus Last Report

attributed to differing sample sizes and locations between the two reports.

GASOLINE
(\$ per gallon)



TABLE 12a - Gasoline Prices				
	July 2024	October 2024	Difference in \$	Difference in %
New England	\$3.57	\$3.12	-\$0.45	-12.61%
Central Atlantic	\$3.37	\$2.99	-\$0.38	-11.28%
Lower Atlantic	\$3.50	\$3.13	-\$0.37	-10.57%
Midwest	\$3.30	\$2.99	-\$0.31	-9.39%
Gulf Coast	\$3.15	\$2.81	-\$0.34	-10.79%
Rocky Mountain	\$3.35	\$3.33	-\$0.02	-0.60%
West Coast	\$4.67	\$4.61	-\$0.06	-1.28%
NATIONAL AVERAGE	\$3.53	\$3.25	-\$0.28	-7.93%

TABLE 12b - Diesel Prices

	July 2024	October 2024	Difference in \$	Difference in %
New England	\$4.09	\$3.84	-\$0.25	-6.11%
Central Atlantic	\$3.73	\$3.47	-\$0.26	-6.97%
Lower Atlantic	\$3.86	\$3.50	-\$0.36	-9.33%
Midwest	\$3.68	\$3.51	-\$0.17	-4.62%
Gulf Coast	\$3.42	\$3.08	-\$0.34	-9.94%
Rocky Mountain	\$3.57	\$3.50	-\$0.07	-1.96%
West Coast	\$5.00	\$4.74	-\$0.26	-5.20%
NATIONAL AVERAGE	\$3.87	\$3.64	-\$0.23	-5.94%

DIESEL
(\$ per gallon)



CNG
(\$ per GGE)



TABLE 12c - CNG Prices				
	July 2024	October 2024	Difference in \$	Difference in %
New England	\$3.76	\$3.82	\$0.06	1.60%
Central Atlantic	\$3.02	\$2.94	-\$0.08	-2.65%
Lower Atlantic	\$2.44	\$2.47	\$0.03	1.23%
Midwest	\$2.64	\$2.66	\$0.02	0.76%
Gulf Coast	\$2.85	\$2.83	-\$0.02	-0.70%
Rocky Mountain	\$2.71	\$2.56	-\$0.15	-5.54%
West Coast	\$3.39	\$3.46	\$0.07	2.06%
NATIONAL AVERAGE	\$2.92	\$2.91	-\$0.01	-0.34%

TABLE 12d - LNG Prices

	July 2024	October 2024	Difference in \$	Difference in %
New England	---	---	---	---
Central Atlantic	---	---	---	---
Lower Atlantic	\$4.80	---	---	---
Midwest	\$3.25	---	---	---
Gulf Coast	\$3.90	---	---	---
Rocky Mountain	---	---	---	---
West Coast	\$5.02	\$4.68	-\$0.34	-6.77%
NATIONAL AVERAGE	\$4.68	\$4.68	\$0.00	0.00%

LNG
(\$ per DGE)



Comparison of Prices: This Report Versus Last Report, cont.

TABLE 12e - E85 Prices				
	July 2024	October 2024	Difference in \$	Difference in %
New England	\$3.55	---	---	---
Central Atlantic	\$3.00	\$2.79	-\$0.21	-7.00%
Lower Atlantic	\$3.04	\$2.69	-\$0.35	-11.51%
Midwest	\$2.85	\$2.59	-\$0.26	-9.12%
Gulf Coast	\$2.83	\$2.48	-\$0.35	-12.37%
Rocky Mountain	\$2.78	\$2.92	\$0.14	5.04%
West Coast	\$3.68	\$3.56	-\$0.12	-3.26%
NATIONAL AVERAGE	\$2.99	\$2.74	-\$0.25	-8.36%

**ETHANOL
(E85)**
(\$ per gallon)



PROPANE
(\$ per gallon)



TABLE 12f - Propane Prices				
	July 2024	October 2024	Difference in \$	Difference in %
New England	\$3.60	\$3.53	-\$0.07	-1.94%
Central Atlantic	\$2.97	\$2.86	-\$0.11	-3.70%
Lower Atlantic	\$3.24	\$3.27	\$0.03	0.93%
Midwest	\$3.34	\$3.40	\$0.06	1.80%
Gulf Coast	\$3.27	\$3.18	-\$0.09	-2.75%
Rocky Mountain	\$3.36	\$3.28	-\$0.08	-2.38%
West Coast	\$3.70	\$3.54	-\$0.16	-4.32%
NATIONAL AVERAGE	\$3.42	\$3.35	-\$0.07	-2.05%

TABLE 12g - B20 Prices				
	July 2024	October 2024	Difference in \$	Difference in %
New England	\$3.69	\$3.36	-\$0.33	-8.94%
Central Atlantic	\$3.51	\$3.35	-\$0.16	-4.56%
Lower Atlantic	\$2.80	\$2.82	\$0.02	0.71%
Midwest	\$3.65	\$3.41	-\$0.24	-6.58%
Gulf Coast	\$3.49	\$3.27	-\$0.22	-6.30%
Rocky Mountain	\$4.08	---	---	---
West Coast	\$4.08	\$3.94	-\$0.14	-3.43%
NATIONAL AVERAGE	\$3.73	\$3.53	-\$0.20	-5.36%

**BIODIESEL
B20**
(\$ per gallon)



**BIODIESEL
B99/B100**
(\$ per gallon)



TABLE 12h - B99/B100 Prices				
	July 2024	October 2024	Difference in \$	Difference in %
New England	\$3.77	\$3.86	\$0.09	2.39%
Central Atlantic	\$3.80	\$2.65	-\$1.15	-30.26%
Lower Atlantic	\$4.00	\$4.00	\$0.00	0.00%
Midwest	\$3.22	---	---	---
Gulf Coast	\$4.85	---	---	---
Rocky Mountain	\$3.55	\$4.63	\$1.08	30.42%
West Coast	\$5.12	\$5.08	-\$0.04	-0.78%
NATIONAL AVERAGE	\$4.02	\$4.04	\$0.02	0.50%

Comparison of Prices by Region for Public & Private Refueling Stations

or “public.” The stations classified as “public” are open to the general public. The majority of the stations classified as “private”

facilities. They serve the host agency’s fleets, and may have contractual or other arrangements in place to sell fuel to other government agencies and/or selected other fleets. In some cases, contracts may include billing, accounting, or fleet service

As with the other prices in this report, these prices include state and federal taxes, as described in the Methodology section of

TABLE 13a - Gasoline		
Average Retail Price by Refueling Station Type (\$/gal)		
	Private	Public
New England	\$2.73	\$3.12
Central Atlantic	\$2.70	\$3.00
Lower Atlantic	\$3.11	\$3.13
Midwest	\$2.56	\$3.00
Gulf Coast	---	\$2.81
Rocky Mountain	---	\$3.33
West Coast	\$4.65	\$4.60
NATIONAL AVERAGE	\$3.75	\$3.24

TABLE 13b - Diesel		
Average Retail Price by Refueling Station Type (\$/gal)		
	Private	Public
New England	\$3.73	\$3.84
Central Atlantic	\$2.75	\$3.62
Lower Atlantic	\$3.00	\$3.50
Midwest	\$2.86	\$3.51
Gulf Coast	---	\$3.08
Rocky Mountain	\$2.29	\$3.52
West Coast	\$4.86	\$4.73
NATIONAL AVERAGE	\$3.47	\$3.64

TABLE 13c - Natural Gas (CNG)		
Average Retail Price by Refueling Station Type (\$/GGE)		
	Private	Public
New England	\$2.38	\$3.99
Central Atlantic	\$2.53	\$3.05
Lower Atlantic	\$2.64	\$2.45
Midwest	\$2.52	\$2.67
Gulf Coast	\$2.69	\$2.84
Rocky Mountain	\$1.93	\$2.68
West Coast	\$2.31	\$3.65
NATIONAL AVERAGE	\$2.42	\$2.99

TABLE 13d - Liquefied Natural Gas (LNG)		
Average Retail Price by Refueling Station Type (\$/DGE)		
	Private	Public
New England	---	---
Central Atlantic	---	---
Lower Atlantic	---	---
Midwest	---	---
Gulf Coast	---	---
Rocky Mountain	---	---
West Coast	\$3.60	\$5.45
NATIONAL AVERAGE	\$3.60	\$5.45

Comparison of Prices by Region for Public & Private Refueling Stations, cont.

TABLE 13e - Ethanol (E85)
Average Retail Price by Refueling Station Type (\$/gal)

	Private	Public
New England	---	---
Central Atlantic	\$2.79	\$2.79
Lower Atlantic	\$2.69	\$2.69
Midwest	\$2.53	\$2.59
Gulf Coast	\$3.93	\$2.47
Rocky Mountain	---	\$2.92
West Coast	\$4.65	\$3.52
NATIONAL AVERAGE	\$2.99	\$2.73

TABLE 13f - Propane
Average Retail Price by Refueling Station Type (\$/gal)

	Private	Public
New England	\$1.75	\$3.56
Central Atlantic	\$1.70	\$3.30
Lower Atlantic	\$1.56	\$3.29
Midwest	\$2.53	\$3.42
Gulf Coast	\$1.88	\$3.25
Rocky Mountain	\$1.87	\$3.31
West Coast	\$2.68	\$3.57
NATIONAL AVERAGE	\$2.02	\$3.40

TABLE 13g - Biodiesel (B20)
Average Retail Price by Refueling Station Type (\$/gal)

	Private	Public
New England	\$3.04	\$3.61
Central Atlantic	\$3.06	\$4.08
Lower Atlantic	\$2.82	---
Midwest	\$2.78	\$3.44
Gulf Coast	\$3.19	\$3.28
Rocky Mountain	---	---
West Coast	---	\$3.94
NATIONAL AVERAGE	\$2.98	\$3.61

TABLE 13h - Biodiesel (B99/B100)
Average Retail Price by Refueling Station Type (\$/gal)

	Private	Public
New England	---	\$3.86
Central Atlantic	\$2.65	---
Lower Atlantic	\$4.00	\$4.00
Midwest	---	---
Gulf Coast	---	---
Rocky Mountain	---	\$4.63
West Coast	---	\$5.08
NATIONAL AVERAGE	\$3.10	\$4.30

Illustration of Conversion Factors for Fuels

Fuel	Lower Heating Value
Gasoline (E0)	115,400 BTU/gal
Gasoline (E10) ⁹	114,300 BTU/gal
Diesel	128,700 BTU/gal
Biodiesel (B100)	117,100 BTU/gal
Compressed Natural Gas (CNG) ¹⁰	114,300 BTU/GGE
Ethanol (E100)	75,700 BTU/gal
Propane	83,500 BTU/gal

dollars per gasoline gallon equivalent (\$/GGE) and dollars per diesel gallon equivalent (\$/DGE) were

the Transportation Energy Data Book Edition 37,

Conversion to GGE

The conversion factor used to convert the price of an alternative fuel from \$/gallon to \$/GGE is determined as follows:

$$\frac{\text{BTU/gal of gasoline (E10)}}{\text{BTU/gal of alternative fuel}}$$

To calculate the price of an alternative fuel in \$/GGE, multiply the price per gallon if the price of B20 is \$3.00/gal, the \$/GGE is (\$3.00/gal) x .90 = \$2.70/gal.

Conversion to DGE

The conversion factor used to convert the price of an alternative fuel from \$/gallon to \$/DGE is determined as follows:

$$\text{Conversion factor} = \frac{\text{BTU/gal of diesel}}{\text{BTU/gal of alternative fuel}}$$

For example, the conversion factor used to convert a B100 price from \$/gal to \$/DGE is determined as follows:

$$\frac{128,700 \text{ BTU/gal of diesel}}{117,100 \text{ BTU/gal of B100}} = 1.099, \text{ rounded to } 1.10$$

To calculate the price of an alternative fuel in \$/DGE, multiply the price per gallon if the price of B100 is given as \$3.00/gal, the \$/DGE is (\$3.00/gal) x 1.10 = \$3.30/DGE.

Fuel	Conversion Factor
Biodiesel (B20)	0.90
Biodiesel (B100)	0.98
CNG	1.00
Ethanol (E85) ¹¹	1.30
LNG	0.89
Propane	1.37

Fuel	Conversion Factor
Biodiesel (B20)	1.02
Biodiesel (B100)	1.10
CNG	1.13
Ethanol (E85) ¹²	1.47
LNG ¹³	1.00
Propane	1.54

<https://tedb.ornl.gov/>

According to the National Renewable Energy Laboratory Alternative Fuels Data Center, the energy content of common gasoline baseline references (E0, E10, and indolene) varies between 112,114 and 116,090 Btu/gal. We chose 114,300 Btu/gal for the E10 energy content, consistent with the Transportation Energy Data Book energy content of CNG, in GGEs. See

(5.66 lbs. of CNG/GGE) x (20,200 Btu/lb.) = 114,332; rounded to 114,300.

Most gasoline available throughout the United States today is a blend of 90% gasoline and up to 10% ethanol, or E10. Additionally, the E85 that is sold in the United States today actually

reflect the actual energy content of E85 fuel available today.

In July 2016, at its annual meeting, the National Conference of Weights and Measures voted to approve the diesel gallon equivalent (DGE) as an authorized method of measuring natural gas sold as a vehicle fuel. 1 DGE means 6.059 lbs. of liquefied natural gas (LNG) or 6.384 lbs. of compressed natural gas (CNG).

Comparison of Prices on an Energy-Equivalent Basis

The following tables compare prices for E85, propane, B20, and B99/B100 to conventional fuels (gasoline and diesel) on an

Region	E85 Prices (\$/GGE)	Gasoline Prices (\$/gal)	Price Difference*
New England	---	\$3.12	---
Central Atlantic	\$3.63	\$2.99	\$0.64
Lower Atlantic	\$3.50	\$3.13	\$0.37
Midwest	\$3.37	\$2.99	\$0.38
Gulf Coast	\$3.22	\$2.81	\$0.41
Rocky Mountain	\$3.80	\$3.33	\$0.47
West Coast	\$4.63	\$4.61	\$0.02
NATIONAL AVERAGE	\$3.56	\$3.25	\$0.31

a \$/GGE basis.

Region	LPG Prices (\$/GGE)	Gasoline Prices (\$/gal)	Price Difference*
New England	\$4.84	\$3.12	\$1.72
Central Atlantic	\$3.92	\$2.99	\$0.93
Lower Atlantic	\$4.48	\$3.13	\$1.35
Midwest	\$4.66	\$2.99	\$1.67
Gulf Coast	\$4.36	\$2.81	\$1.55
Rocky Mountain	\$4.49	\$3.33	\$1.16
West Coast	\$4.85	\$4.61	\$0.24
NATIONAL AVERAGE	\$4.58	\$3.25	\$1.33

on a \$/GGE basis.

Region	B20 Prices (\$/DGE)	Diesel Prices (\$/gal)	Price Difference*
New England	\$3.43	\$3.84	-\$0.41
Central Atlantic	\$3.42	\$3.47	-\$0.05
Lower Atlantic	\$2.88	\$3.50	-\$0.62
Midwest	\$3.48	\$3.51	-\$0.03
Gulf Coast	\$3.34	\$3.08	\$0.26
Rocky Mountain	---	\$3.50	---
West Coast	\$4.02	\$4.74	-\$0.72
NATIONAL AVERAGE	\$3.60	\$3.64	-\$0.04

\$/DGE basis.

Region	B99/B100 Prices (\$/DGE)	Diesel Prices (\$/gal)	Price Difference*
New England	\$4.15	\$4.09	\$0.06
Central Atlantic	\$4.18	\$3.73	\$0.45
Lower Atlantic	\$4.40	\$3.86	\$0.50
Midwest	\$3.54	\$3.68	-\$0.14
Gulf Coast	\$5.34	\$3.42	\$1.92
Rocky Mountain	\$3.91	\$3.57	\$0.34
West Coast	\$5.63	\$5.00	\$0.63
NATIONAL AVERAGE	\$4.43	\$3.87	\$0.56

*Negative numbers represent average B99/B100 prices that are lower than diesel, on a \$/DGE basis.

Acknowledgements

like to acknowledge the continued support of DOE for developing this report.

Would You Like to Participate?

If you would like to provide prices for alternative fuels in your region and be part of the data collection effort for this report, or

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