REPORT

Alternative Fuel Prices Across the Nation

his is the thirteenth issue of the Clean Cities Alternative Fuel Price Report, a quarterly newsletter keeping **I** you up to date on the prices of alternative fuels in the U.S. and their relation to gasoline and diesel prices. This issue discusses prices that were gathered from Clean Cities coordinators and stakeholders between November 8 and November 19, 2004, with comparisons to the prices in the previous Price Report, which were collected in June. 2004.

The prices contained within this report are meant to represent retail, at-the-pump sales prices for each fuel. In some cases, prices are collected from utilities or government facilities, where taxes are not included. In these instances, though government users may not be required to pay a tax on the fuel, standard federal and state taxes are added on and included in the prices presented herein. Some states, in lieu of taxes, charge an annual flat fee for certain alternative fuels (esp. gaseous fuels such as CNG and propane). Such flat fees are not considered in the prices estimated in this report.

Gasoline and Diesel Prices

egular grade gasoline averaged \$1.969 per Rgallon nationwide during the week of November 15, 2004, decreasing by 1.6¢ per gallon since the previous Price Report (June 2004), as illustrated in the table to the right. Prices for the various regions of the country are also illustrated in this table. (A map of the regions is shown on the next page.) During the week of November 15, prices ranged from a low of \$1.870 in the Gulf Coast region to a high of \$2.222 on the West Coast. The price decreased in all regions except the Lower Atlantic since

Gasoline Price Trends						
	Week of 6-14-04	Week of 11-15-04	Change in Price			
New England	\$2.088	\$2.015	(\$0.073)			
Central Atlantic	\$2.060	\$2.011	(\$0.049)			
Lower Atlantic	\$1.928	\$1.933	\$0.005			
Midwest	\$1.882	\$1.876	(\$0.006)			
Gulf Coast	\$1.882	\$1.870	(\$0.012)			
Rocky Mountain	\$1.982	\$1.968	(\$0.014)			
West Coast	\$2.243	\$2.222	(\$0.021)			
Nationwide Average	\$1.985	\$1.969	(\$0.016)			

June, 2004. The greatest decrease in prices was in New England, where the price decreased by over 7¢ per gallon.

Diesel fuel averaged \$2.132 per gallon nationwide during the week of November 15, 2004. This represents an increase of 42.1¢ per gallon from the previous Price Report (June 2004). Prices for the various regions of the country are illustrated in the table to the right. During the week of November 15, diesel prices ranged from a low of \$2.056 in the Gulf Coast region to a high of \$2.274 on the West Coast. Between June and November, 2004, prices for diesel increased in every region of the country.

Gasoline and diesel prices shown are retail

Diesel Price Trends						
	Week of 6-14-04	Week of 11-15-04	Change in Price			
New England	\$1.810	\$2.268	\$0.458			
Central Atlantic	\$1.780	\$2.262	\$0.482			
Lower Atlantic	\$1.636	\$2.105	\$0.469			
Midwest	\$1.657	\$2.096	\$0.439			
Gulf Coast	\$1.635	\$2.056	\$0.421			
Rocky Mountain	\$1.879	\$2.215	\$0.336			
West Coast	\$1.998	\$2.274	\$0.276			
Nationwide Average	\$1.711	\$2.132	\$0.421			

prices; they include federal, state, and local taxes. These prices were obtained from the Energy Information

November 26, 2004

Administration.





Natural Gas (CNG) Prices

A verage natural gas (CNG) retail pump prices for the various regions of the country are illustrated in the accompanying table. Regional average CNG prices ranged from a low of \$1.03 per GGE in the Midwest region to a high of \$1.80 per GGE on the West Coast during the week of November 15, 2004. Prices for CNG were collected from across the country by Clean Cities

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	Week of 6-14-04	Week of 11-15-04	Change in Price	Number of Respondents for 6-14-04	Approx. No. of Stations Represented		
New England	\$1.40	No Info	-	0	0		
Central Atlantic	\$1.12	\$1.78	\$0.66	1	5		
Lower Atlantic	\$1.49	\$1.56	\$0.07	1	1		
Midwest	\$1.02	\$1.03	\$0.01	4	6		
Gulf Coast	\$1.27	\$1.35	\$0.08	1	1		
Rocky Mountain	\$1.53	\$1.35	(\$0.18)	3	5		
West Coast	\$1.54	\$1.82	\$0.28	3	37		

CNG Price Trends

Coordinators, DOE Regional Office contacts, and fuel providers on a voluntary basis.

Propane Prices

Propane retail pump prices in the various regions of the country during the week of November 15, 2004, are illustrated in the accompanying table. Regional average propane prices ranged from a low of \$1.99 per gallon (\$2.67 per GGE) in the Gulf Coast region to a high of \$2.33 per gallon (\$3.12 per GGE) in the West Coast region. No prices were reported from the New England and

Propane Price Trends							
Week of 6-14-04Week of 11-15-04Change in PriceNumber of Respondents for 6-14-04Approx. No.							
New England	No Info	No Info	-	0	0		
Central Atlantic	\$1.79	No Info	-	0	0		
Lower Atlantic	\$2.25	\$2.16	(\$0.09)	1	2		
Midwest	\$1.54	\$2.19	\$0.65	4	6		
Gulf Coast	\$1.40	\$1.99	\$0.59	2	5		
Rocky Mountain	\$1.63	\$2.17	\$0.54	4	11		
West Coast	\$1.47	\$2.33	\$0.86	5	9		

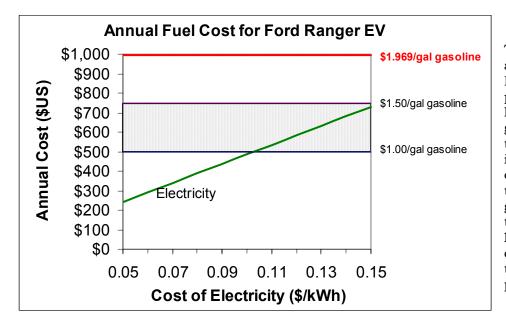
Central Atlantic regions. Prices for propane were collected from across the country by Clean Cities Coordinators, DOE Regional Office contacts, and fuel providers on a voluntary basis.

Electricity Prices

Residential electricity prices in the United States ranged from 6¢ to 18¢ per kilowatt-hour in August 2004, according to the Energy Information Administration's Electric Power Monthly newsletter of November 2004. Commercial electricity rates ranged from 5¢ to 17¢ per kilowatt-hour. The Rocky Mountain region had the lowest electricity prices in both the residential sector and the commercial sector. The highest price for the residential sector was in the New England region, and the highest price for the commercial sector was in the Central Atlantic region.

It is difficult to estimate regional fuel costs of electric vehicles with any precision because of the complexity of electricity pricing structures. However, one method for comparing electricity to conventional fuels is to calculate the fuel cost per year for sample vehicles. The table below illustrates two sample electric vehicles: the Ford Ranger and the Toyota Rav4¹. Fuel costs per year were calculated based upon the EPA-published fuel economy ratings for gasoline vehicles (24 MPG for the Ranger and 26 MPG for the Rav4) and for electric vehicles (0.4 kilowatt-hours per mile for the Ranger and 0.3 kilowatt-hours per mile for the Rav4). Each vehicle was assumed to travel 12,000 miles per year. Fuel costs for electric vehicles were calculated from a range of prices, as shown below. The national average price of gasoline (\$1.969 per gallon) was used to calculate the annual fuel cost for gasoline vehicles.

Annual Fuel Cost Comparison							
	Electric Vehicle	Electric Vehicle	Electric Vehicle	Electric Vehicle	Electric Vehicle	Gasoline Vehicle	
Ford Ranger	(5¢/kWh) \$240	(7.5¢/kWh) \$360	(10¢/kWh) \$490	(12.5¢/kWh) \$610	(15¢/kWh) \$730	\$980	
Toyota Rav4	\$180	\$270	\$360	\$450	\$540	\$910	



The graph to the left shows the annual fuel cost of an electric Ford Ranger over a range of electricity prices from 5¢ to 15¢ per kilowatthour. At the national average gasoline price of \$1.969 per gallon, the fuel cost of an electric Ranger is less than that of its conventional counterpart for electricity price up to 20¢ per kilowatt-hour. If gasoline costs \$1.00 per gallon, the electric vehicle will not have a lower fuel cost than its conventional counterpart unless the electricity price is under 11¢ per kilowatt-hour.

Ethanol (E85) Prices

For the week of November 15, 2004, E85 prices were obtained from the Central Atlantic, Lower Atlantic, Midwest, Gulf Coast, and Rocky Mountain regions. Regional average prices range from a low of \$1.84 per

	Week of 6-14-04	Week of 11-15-04	Change in Price	Number of Respondents for 6-14-04	Approx. No. of Stations Represented
New England	No Info	No Info	-	0	0
Central Atlantic	No Info	\$2.00	-	1	5
Lower Atlantic	\$1.87	\$1.98	\$0.11	1	1
Midwest	\$1.82	\$1.84	\$0.02	4	13
Gulf Coast	No Info	\$2.43	-	1	1
Rocky Mountain	\$2.05	\$1.94	(\$0.11)	2	2
West Coast	\$2.16	No Info	-	0	0

Ethanol Price Trends

¹ The 2002 Ford Ranger EV is compared to a 2002 Ford Ranger 2WD with 4 cylinders, 4-valve dual overhead cam, 2.3 liters, and automatic transmission. The 2002 Toyota Rav4 EV is compared to a 2002 Toyota Rav4 2WD with 4 cylinders, 2 liters, and automatic transmission.

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gallon (\$2.30 per GGE) in the Midwest region, to a high of \$2.43 per gallon (\$3.04 per GGE) in the Gulf Coast region.² Prices for E85 were collected from across the country by Clean Cities Coordinators, DOE Regional Office contacts, and fuel providers on a voluntary basis.

Biodiesel (B20) Prices

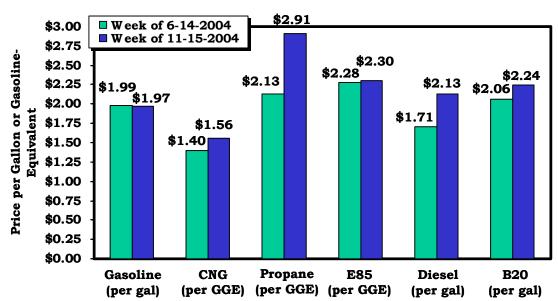
Biodiesel prices for the week of November 15, 2004, are shown in the table to the right. The prices shown represent B20, a fuel composed of conventional diesel (80%) and biodiesel (20%). Regional average prices ranged from \$2.09 per gallon in the Midwest region to \$2.27 per gallon in the Rocky Mountain region. Prices for biodiesel were

Biodiesel Price Trends						
Week of 6-14-04Week of 11-15-04Change in PriceNumber of Respondents for 6-14-04Approx. No Represente						
New England	No Info	No Info	-	0	0	
Central Atlantic	\$2.08	No Info	-	0	0	
Lower Atlantic	\$1.84	\$2.12	\$0.28	1	3	
Midwest	\$1.73	\$2.09	\$0.36	2	2	
Gulf Coast	No Info	No Info	-	0	0	
Rocky Mountain	\$2.11	\$2.27	\$0.16	3	5	
West Coast	\$2.06	\$2.24	\$0.18	4	4	

collected from across the country by Clean Cities Coordinators, DOE Regional Office contacts, and fuel providers on a voluntary basis. Note that some biodiesel prices were given in terms of B100, a pure biodiesel fuel not blended with conventional diesel. In these cases, a representative diesel price from the corresponding region was assumed, and a B20 price was calculated.

Summary

During the week of November 15, 2004, diesel prices across the country were significantly higher than in June, 2004 (the time period of the previous Price Report). Gasoline prices fell only slightly on a national basis. The reported price of CNG increased in most regions but decreased in the Rocky Mountains. Propane prices increased significantly in all reporting regions except the Lower Atlantic region, where the price of propane declined slightly. Ethanol prices rose in some regions and fell in others. The biodiesel price increased in all of the regions that reported it. The graph below illustrates the relative prices of gasoline, diesel, CNG, propane, E85, and biodiesel. ³



Selected Fuel Prices in the U.S.

² Includes a 10% decrease in energy use per mile for E85 relative to gasoline.

³ Gasoline and diesel prices in the graph are national averages; CNG, propane, and B20 prices are median values. The Midwest region's price for E85 is shown because the majority of the reporting stations are located in the Midwest.



Do you have fuel prices you wish to share for inclusion in the next newsletter? To do so, contact:

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