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With Data for September 1998

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Redesign of the Petroleum Marketing Monthly

We need your help!

We are considering changing the contents of this publication to better meet the data needs of our customers. A survey was recently mailed to subscribers asking their opinion on how to improve the Petroleum Marketing Monthly (PMM). **If you have not received or completed the survey** and wish to provide input, please contact us at the number shown below.

The following changes are being considered:

- Eliminate refiner gasoline sales volume tables and emphasize the use of Prime Suppliers' gasoline sales volume data (Tables 7, 9, 11, and 13). Although the prime supplier data do not separate retail and wholesale sales volumes, the data are considered more comprehensive because they include sales by importers and large, inter-State distributors.

- Replace the U.S. refiner price data in Tables 6, 8, 10, 12, and 37 with more comprehensive all sellers or refiner/reseller price data. For example, the PMM contains refiner No. 2 distillate prices in Table 37 and all-sellers No. 2 distillate prices in Table 39. Since the all-sellers' price includes both refiners' and nonrefiners' prices, we propose eliminating the refiners' No. 2 distillate data from Table 37.

- Reorganize refiner data from some tables. For example, refiner prices for No. 1 and No. 4 distillate will be moved from Table 37 to Table 36. Refiner residual fuel prices will be moved from Table 19 to Tables 2 and 4.

- Publish diesel data for some States (for example, California and Texas) that are not currently published (Tables 39 and 40).

- Publish propane data for selected States. (Table 38). Currently, propane data are only published at the PADD/subPADD level.

- Discontinue publishing No. 2 distillate data for some States (for example, Alaska, Washington, Oregon, and Idaho). (Tables 39 and 40).

- Eliminate most of the Explanatory Notes and Glossary. To reduce the size and production costs, a separate, electronic and hard copy version of a Technical Notes Handbook will be made available to interested users. If necessary, the Technical Notes could be published in 1 issue each year.

The changes will be effective with the issue containing February 1999 preliminary data. This will allow consistent annual data to be published for both 1998 and 1999.

If you would like to comment on these possible changes, **please contact Jake Bournazian on 202-586-1256, e-mail address Jacob.Bournazian@eia.doe.gov** or mail your comments to:

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Preface

The *Petroleum Marketing Monthly* (PMM) provides information and statistical data on a variety of crude oils and refined petroleum products. The publication presents statistics on crude oil costs and refined petroleum products sales for use by industry, government, private sector analysts, educational institutions, and consumers. Data on crude oil include the domestic first purchase price, the f.o.b. and landed cost of imported crude oil, and the refiners' acquisition cost of crude oil. Refined petroleum product sales data include motor gasoline, distillates, residuals, aviation fuels, kerosene, and propane. The Petroleum Marketing Division, Office of Oil and Gas, Energy Information Administration ensures the accuracy, quality, and confidentiality of the published data in the *Petroleum Marketing Monthly*.

Scope of Data

The data within the *Petroleum Marketing Monthly* are compiled from six Energy Information Administration (EIA) survey forms. The crude oil statistics are calculated from data collected on the following three survey forms: Form EIA-182, "Domestic Crude Oil First Purchase Report"; Form EIA-856, "Monthly Foreign Crude Oil Acquisition Report"; and Form EIA-14, "Refiners' Monthly Cost Report."

The statistics on petroleum product sales prices and volumes are derived from Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report" and Form EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report."

The data presented in Tables 48 to 50 are derived from aggregations of data from Form EIA-782C, "Monthly Report of Prime Supplier Sales of Petroleum Products Sold for Local Consumption."

Sections

Monthly statistics on purchases of crude oil and sales of petroleum products are presented in the *Petroleum Marketing Monthly* in five sections:

- Summary Statistics
- Crude Oil Prices
- Prices of Petroleum Products
- Volumes of Petroleum Products
- Prime Supplier Sales Volumes of Petroleum Products for Local Consumption.

The publication highlights salient statistics for the United States in the Summary Statistics section. More detailed geographic coverage occurs in the other four sections. Geographic coverage for crude oil includes country of origin for foreign crude and Petroleum Administration for Defense (PAD) Districts and individual States for domestic crude oil. Geographic coverage of the petroleum products includes PAD Districts and individual States.

Detailed statistics for crude oil, including the price of imported crude oil by country of origin, by gravity, and by crude stream, can be found in the Crude Oil Prices section.

PAD District and/or State-level statistics for petroleum products are presented in the Prices, Volumes, and Prime Supplier Sales of Petroleum Products sections. To aid the reader in determining the market changes, the majority of the tables show data for the report month and previous month for the current year, and the report month for the previous year.

Notes on the Tables

- For the crude oil statistics referencing Form EIA-182, United States includes the 50 States, the outer continental shelf, and the District of Columbia. For crude oil statistics referencing either Form EIA-14 or Form EIA-856, United States includes the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, and all American territories and possessions. For the petroleum products data, United States includes the 50 States and the District of Columbia.

- Prices exclude taxes. Refer to the Explanatory Notes for a tax table on motor fuels.

- Some of the tables use State abbreviations. Refer to the Explanatory Notes for a table of U.S. Postal State abbreviations.

- Sales of leaded gasoline are reported in the Conventional gasoline category by appropriate grade in the Prime Supplier Sales Volumes section, but are excluded from gasoline sales prices and volumes in all other sections of the publication. Leaded gasoline is a component of averages and totals prior to October 1993.

- References to "Refiners" include gas plant operators (see the Glossary for definition of "Gas Plant Operators"). All tables whose titles do not specifically reference "Refiners" contain data from all sellers. "All Sellers" includes refiners, gas plant operators, resellers, and retailers.

- "Prime Supplier" refers to a firm that produces, imports, or transports any of the selected petroleum products across State boundaries and local marketing areas and sells the product to local distributors, local retailers, or end users.

- The category "Retail Outlet" refers to any company-operated outlet selling gasoline, on-highway low-sulfur diesel fuel, or propane for on-highway vehicle use (see Glossary).

- No. 2 distillate volumes and prices are classified in accordance with what the product was sold as, regardless of the actual specifications of that product (see definitions of No. 2 distillate in the Glossary).

Contents

Highlights ix

Summary Statistics 1

Crude Oil Prices 39

Prices of Petroleum Products 55

Volumes of Petroleum Products. 103

Prime Supplier Sales Volumes of Petroleum Products for Local Consumption. 129

Explanatory Notes 147

Product Guide 165

Glossary 169

List of Articles 177

Tables

Summary Statistics

1. Crude Oil Prices 2
2. U.S. Refiner Prices of Petroleum Products to End Users 4
3. U.S. Refiner Volumes of Petroleum Products to End Users 6
4. U.S. Refiner Prices of Petroleum Products for Resale 8
5. U.S. Refiner Volumes of Petroleum Products for Resale 10
6. U.S. Refiner Motor Gasoline Prices by Grade and Sales Type 12
7. U.S. Refiner Motor Gasoline Volumes by Grade and Sales Type 14
8. U.S. Refiner Conventional Motor Gasoline Prices by Grade and Sales Type 16
9. U.S. Refiner Conventional Motor Gasoline Volumes by Grade and Sales Type 18
10. U.S. Refiner Oxygenated Motor Gasoline Prices by Grade and Sales Type 20
11. U.S. Refiner Oxygenated Motor Gasoline Volumes by Grade and Sales Type. 22
12. U.S. Refiner Reformulated Motor Gasoline Prices by Grade and Sales Type 24
13. U.S. Refiner Reformulated Motor Gasoline Volumes by Grade and Sales Type 26
14. U.S. Propane (Consumer Grade) Prices by Sales Type 28
15. U.S. No. 2 Distillate Prices by Sales Type 29
16. U.S. No. 2 Diesel Fuel Prices by Sales Type 30
17. U.S. No. 2 Diesel Fuel Prices by Sulfur Content and Sales Type 31
18. Prices of No. 2 Distillate to Residences by PAD District and Selected States 32
19. U.S. Refiner Residual Fuel Oil Prices. 36
20. U.S. Refiner Residual Fuel Oil Volumes 38

Crude Oil Prices

21. Domestic Crude Oil First Purchase Prices. 41
22. Domestic Crude Oil First Purchase Prices for Selected Crude Streams 44
23. Domestic Crude Oil First Purchase Prices by API Gravity 45
24. F.O.B. Costs of Imported Crude Oil by Selected Country 46
25. Landed Costs of Imported Crude Oil by Selected Country 47
26. F.O.B. Costs of Imported Crude Oil by API Gravity 48
27. Landed Costs of Imported Crude Oil by API Gravity 49
28. Percentages of Total Imported Crude Oil by API Gravity 50
29. F.O.B. Costs of Imported Crude Oil for Selected Crude Streams 51
30. Landed Costs of Imported Crude Oil for Selected Crude Streams 53

Prices of Petroleum Products

31. Motor Gasoline Prices by Grade, Sales Type, PAD District, and State 56
32. Conventional Motor Gasoline Prices by Grade, Sales Type, PAD District, and State. 64
33. Oxygenated Motor Gasoline Prices by Grade, Sales Type, and PAD District 72
34. Reformulated Motor Gasoline Prices by Grade, Sales Type, PAD District, and Selected States. 74
35. Refiner Motor Gasoline Prices by Grade, Sales Type, PAD District and State 78
36. Refiner Prices of Aviation Fuels and Kerosene by PAD District and State 82
37. Refiner Prices of Distillate Fuels by PAD District and State 86
38. Propane (Consumer Grade) Prices by Sales Type and PAD District 90
39. No. 2 Distillate Prices by Sales Type, PAD District, and Selected States 91
40. No. 2 Diesel Fuel Prices by Sales Type, PAD District, and Selected States 94
41. No. 2 Diesel Fuel Prices by Sulfur Content, Sales Type, and PAD District 97
42. Residual Fuel Oil Prices by PAD District and State 98

Volumes of Petroleum Products

43. Refiner Motor Gasoline Volumes by Grade, Sales Type, PAD District, and State 104

44. Refiner Motor Gasoline Volumes by Formulation, Sales Type, PAD District, and State 112

45. Refiner Volumes of Aviation Fuels, Kerosene, No. 1 Distillate, and Propane by PAD District and State 120

46. Refiner No. 2 Distillate, Diesel Fuel, and Fuel Oil Volumes by PAD District and State 124

47. Refiner Residual Fuel Oil and No. 4 Fuel Volumes by PAD District 128

Prime Supplier Sales Volumes of Petroleum Products for Local Consumption

48. Prime Supplier Sales Volumes of Motor Gasoline by Grade, Formulation, PAD District, and State 130

49. Prime Supplier Sales Volumes of Aviation Fuels, Propane, and Residual Fuel Oil by PAD District and State 138

50. Prime Supplier Sales Volumes of Distillate Fuel Oils and Kerosene by PAD District and State 142

Figures

1. Crude Oil Prices 3

2. U.S. Refiner Retail Petroleum Product Prices 5

3. U.S. Refiner Retail Petroleum Product Volumes 7

4. U.S. Refiner Wholesale Petroleum Product Prices 9

5. U.S. Refiner Wholesale Petroleum Product Volumes 11

6. U.S. No. 2 Distillate Prices to Residences by PAD District 35

7. U.S. Refiner Residual Fuel Oil Prices and Volumes. 37

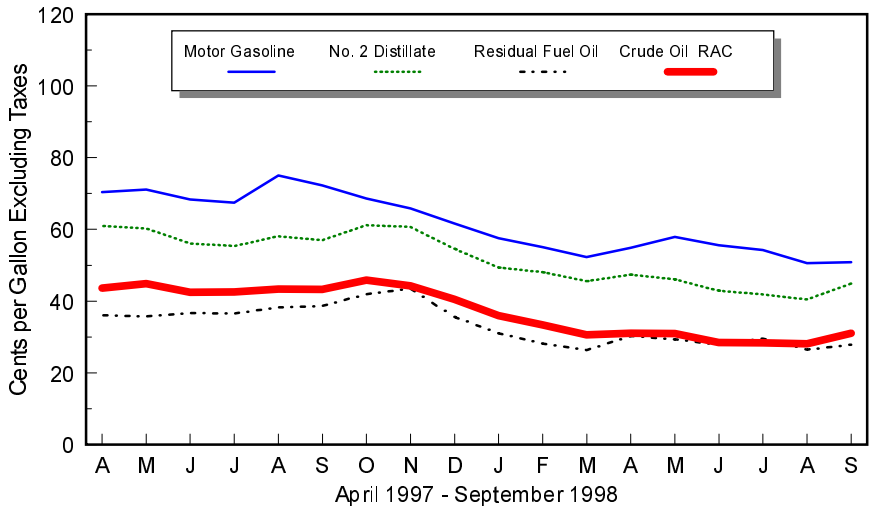
Highlights

Highlights

Influenced by a number of events, world crude oil prices rose throughout September. Tensions between the United Nations and Iraq over the terms of the weapons inspection program prompted price increases at the start of the month. The latest episode in the trouble-plagued inspection program centered on the Iraqi government's further refusals to allow U.N. inspectors access to several sites for investigation, violating the terms of previous resolutions stemming from the Gulf War. In response, the U.N. Security Council adopted Resolution 1194 on September 9, suspending the 60-day review of sanctions against Iraq established in Resolution 687 (1991). The next review was scheduled to occur in October. In other events taking place in the Middle East, Kuwait hosted two meetings with representatives mostly from various oil-producing Arab states. The intent of both meetings was to identify and discuss additional means of support for crude oil prices outside of further wellhead production cuts. The meetings generated a call for members of the Organization of Petroleum Exporting Countries (OPEC) to continue to adhere to the group's revised production quotas. For the most part, the new quotas have been complied with, and have provided support for prices at a fundamental level. However, the effect of the cuts on market prices has remained tempered by the continuation of less-than-expected rates of demand for petroleum products and poor refining economics in many regional markets. In other areas of the world, severe weather in the North American region throughout the month interfered with normal industry activities, and had noticeable repercussions on crude oil prices in international markets. Disruptions to loadings at Russian and Nigerian crude oil export hubs caused by a variety of political and technical reasons provided further encouragement to rising prices during the first half of the month.

In the United States, inclement weather was the dominant factor behind rising crude oil and finished product prices in September. Production and transportation facilities in and around the Gulf of Mexico and the Caribbean Sea were affected by five tropical storms or hurricanes striking the area over the course of the month. The most damaging storm, Hurricane Georges, caused considerable flooding along the U.S. Gulf Coast, and hampered recovery efforts at some refining complexes. Disruptions at major ports, particularly at the Louisiana Offshore Oil Port (LOOP), delayed the delivery of crude oil shipments, leading to a significant draw on available stocks in the United States and spurring prices higher. Overall, U.S. crude oil stocks fell 2.3 percent from August's level, the

Figure HL1. Crude Oil and Petroleum Product Wholesale Prices



Sources: Energy Information Administration. Crude oil refiner acquisition cost: Form EIA-14, "Refiners' Monthly Cost Report"; petroleum product prices: Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

Table HL1. U.S. Refiner Prices and Volumes of Petroleum Products

(Prices: Cents per Gallon Excluding Taxes, Volumes: Million Gallons per Day)

Products	Sales to End Users						Sales for Resale					
	September 1998		August 1998		September 1997		September 1998		August 1998		September 1997	
	Price	Volume	Price	Volume	Price	Volume	Price	Volume	Price	Volume	Price	Volume
Motor Gasoline	65.4	65.2	66.7	66.9	87.2	63.8	50.9	299.1	50.6	308.4	72.3	290.8
Conventional	62.6	39.2	63.9	41.1	83.7	39.1	47.8	199.2	47.3	209.8	68.1	200.4
Regular	58.5	27.0	59.8	28.4	80.0	27.9	45.6	150.6	45.0	159.3	66.1	155.0
Midgrade	68.2	6.3	69.6	6.5	89.4	6.2	51.4	15.8	51.0	16.5	72.2	16.4
Premium	75.5	6.0	76.9	6.2	97.5	5.0	56.1	32.8	56.0	34.1	76.8	29.0
Oxygenated	70.1	2.1	70.7	1.9	93.7	2.1	58.3	7.0	57.8	5.6	80.1	4.8
Regular	67.4	1.6	68.3	1.5	91.3	1.6	56.6	5.2	56.4	4.3	78.6	3.7
Midgrade	76.5	0.3	77.1	0.2	100.0	0.2	59.3	1.0	58.9	0.8	82.9	0.6
Premium	85.3	0.2	84.8	0.2	108.1	0.2	68.0	0.8	66.8	0.5	87.4	0.5
Reformulated	69.7	23.9	71.2	23.9	92.6	22.7	57.1	93.0	57.6	92.9	81.7	85.6
Regular	64.7	15.7	66.2	15.6	88.0	15.2	53.4	61.5	53.8	61.4	78.2	57.7
Midgrade	75.2	4.0	76.7	4.0	97.9	3.8	61.6	10.5	62.1	10.9	86.2	10.8
Premium	83.0	4.2	84.4	4.2	106.0	3.7	65.5	20.9	66.6	20.6	90.7	17.1
Aviation Gasoline	94.1	0.2	95.9	0.2	115.6	0.2	89.8	0.7	91.7	0.7	108.9	0.7
Kerosene-Type Jet Fuel	44.9	48.0	43.6	51.5	58.2	51.1	44.6	10.7	42.9	12.4	58.8	10.6
Propane (Consumer Grade)	37.1	2.3	33.5	2.4	48.4	3.1	26.3	31.5	25.7	27.7	39.5	32.4
Kerosene	47.2	0.3	41.5	0.6	63.4	0.3	45.7	1.4	40.7	0.9	60.1	1.9
No. 1 Distillate	NA	NA	NA	NA	61.1	0.2	53.6	0.8	51.3	0.4	67.2	0.9
No. 2 Distillate	49.1	26.1	45.8	25.0	60.4	26.1	44.9	117.7	40.5	115.8	57.0	121.5
No. 2 Fuel Oil	47.4	3.9	43.1	3.7	58.4	2.9	41.8	21.0	36.9	20.9	54.3	27.0
No. 2 Diesel Fuel	49.4	22.2	46.3	21.2	60.7	23.2	45.6	96.7	41.4	94.8	57.8	94.5
Low Sulfur	51.1	15.0	48.0	14.4	62.1	15.5	46.2	82.2	41.7	80.7	58.0	80.5
High Sulfur	46.0	7.2	42.8	6.9	57.9	7.7	42.6	14.4	39.2	14.1	56.9	14.0
No. 4 Fuel[a]	39.9	0.3	36.2	0.4	51.1	0.2	36.1	0.1	36.0	0.0	54.1	0.1
Residual Fuel Oil	27.6	13.0	28.7	17.8	41.4	12.9	27.9	17.4	26.5	16.5	38.7	11.8
Sulfur Content not > 1 %	32.4	3.2	32.3	4.8	46.4	2.6	29.9	5.3	26.9	7.2	40.1	5.0
Sulfur Content > 1 %	26.0	9.8	27.4	13.0	40.1	10.3	27.0	12.2	26.1	9.2	37.6	6.9

NA = Not available.
[a] Includes No. 4 fuel oil and No. 4 diesel fuel.
Notes: Motor gasoline averages and totals prior to October 1993 include leaded gasoline.
Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual.*
Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

largest decrease seen thus far in 1998. Finished product prices received significant support from robust crude oil prices and interruptions to refinery operations, despite easing demand for products. Spot market prices for gasoline were also boosted by the seasonal shift to winter-grade RVP product. Further, September gasoline stocks fell 2.4 percent from the August level, intensifying the support for gasoline prices gained from crude oil. However, year-on-year data indicate current gasoline stocks are more than 4 percent higher than at this time last year. A comparison of New York Harbor spot market prices for unleaded regular gasoline shows a range between 59.4 cents per gallon and 70.0 cents per gallon in September 1997, while the range in 1998 was between 38.6 cents per gallon and 46.9 cents per gallon. A similar level of price disparity affects No. 2 distillate products. Nonetheless, No. 2 distillate prices also responded to the general upward trend of the products complex, and rose even though demand dropped marginally and stocks grew slightly from last month's level. Notably, however, distillate stocks registered a 28.9 percent gain from the year-ago level.

More September market and sales activity for crude oil and the principal petroleum products are summarized in the following sections.

Crude Oil

At Cushing, Oklahoma, the daily spot price for West Texas Intermediate (WTI) crude oil was able to shrug off the influence of brimming stockpiles for the first time in many months, as severe weather compromised crude oil production and transportation activities during September. The month's low, $13.62 per barrel, was marked on the first day of September. The price continued to rise through the rest of the month, before closing September at $16.19 per barrel, $2.57 per barrel higher than where it began the month.

- Monthly average crude oil prices rose in all categories of sales during September. The average domestic crude oil first purchase price climbed $1.10 (10.8 percent), to $11.28 per barrel.

- The average free-on-board (f.o.b.) cost of imported crude oil rose $1.46 (14.3 percent), to $11.66 per barrel. The average landed cost of foreign crude oil increased $1.28 (11.4 percent), to $12.55 per barrel.

- The monthly average refiner acquisition costs for domestic crude oil increased 95 cents (7.6 percent), to $13.40 per barrel. The average cost of imported crude oil to U.S. refiners climbed $1.47 (13.0 percent), to $12.81 per barrel. The composite refiner acquisition cost of crude oil increased $1.26 (10.7 percent), to $13.05 per barrel.

Petroleum Products

Motor Gasoline

The daily spot price for unleaded regular gasoline at New York Harbor rose substantially during September, albeit in a more volatile manner than other products' prices. The price opened at 39.1 cents per gallon and tentatively rose before falling to the month's low of 38.6 cents per gallon on September 9. At mid-month, the price spiked as the switch to winter-grade RVP product occurred, in addition to weather-related factors that affected the market as a whole. After further substantial gains in the second half of the month, the price closed at its high of 46.9 cents per gallon, 7.8 cents higher than where it began September.

- September monthly average gasoline prices show only marginal changes from August levels. The average price for motor gasoline retail sales by refiners fell 1.3 cents to 65.4 cents per gallon, while the average wholesale price rose 0.3 cent to 50.9 cents per gallon. Including data reported by a sample of motor gasoline marketers, the national average retail price at company-operated retail outlets decreased 1.2 cents to 64.0 cents per gallon. The average wholesale price rose 0.3 cent to 51.3 cents per gallon. The average dealer tank wagon (DTW) price decreased 0.4 cent to 58.9 cents per gallon. The average rack price rose 0.8 cent to 48.6 cents per gallon. The average bulk sales price remained flat at 42.8 cents per gallon. The margin between reformulated and conventional gasoline prices was 4.6 cents at retail, and 7.2 cents at wholesale. The spread between conventional and oxygenated gasoline prices was 7.3 cents at retail, and 9.5 cents at wholesale.

- Finished motor gasoline sales by refiners decreased across the board in September. Total sales dropped 11 million gallons per day (2.9 percent), to an average of 364.3 million gallons per day. Retail sales declined 1.7 million gallons per day (2.5 percent), while wholesales fell 9.3 million gallons per day (3.0 percent). Rack sales accounted for 63.3 percent of total wholesales, while DTW and bulk sales made up 24.2 percent and 12.5 percent, respectively. Reformulated gasoline (RFG) made up 32.1 percent of total motor gasoline sales, while oxygenated gasoline explained 2.5 percent of sales.

No. 2 Distillate

By and large, the September daily spot price for No. 2 heating oil at New York Harbor followed the rising pattern set by crude oil. The market's opening price of 35.1 cents per gallon also proved to be the low for September. The price increased throughout the month, encountering few setbacks and often reducing the margin of difference between it and prices for other major finished products. Closing at its high of 43.3 cents per gallon, the price ended September 8.2 cents higher than where it began the month.

- September monthly average prices for No. 2 distillates rose in all categories. The national average residential price rose 1.7 cents to 77.2 cents per gallon, while the average wholesale price climbed 4.2 cents to 45.5 cents per gallon. The average price for No. 2 diesel fuel at company-operated retail outlets increased 1.9 cents, while the average wholesale price rose 4.0 cents. The margins be-

tween low- and high-sulfur diesel fuel prices were 1.0 cent at retail and 2.5 cents at wholesale.

- Refiner sales of No. 2 distillate grew in September. Total sales increased 3.2 million gallons per day (2.3 percent), to 143.8 million gallons per day. Sales of No. 2 fuel oil rose 300,000 gallons per day (1.2 percent), while sales of No. 2 diesel fuel climbed 2.9 million gallons per day (2.5 percent). Low-sulfur diesel fuel sales made up 81.7 percent of all refiner diesel fuel sales, and 67.6 percent of all refiner No. 2 distillate sales.

Residual Fuel Oil

- September monthly average residual fuel oil prices were mixed. Refiner prices for low-sulfur residual fuel inched up 0.1 cent to 32.4 cents per gallon at retail, but grew more substantially at wholesale, rising 3.0 cents to 29.9 cents per gallon. Refiner high-sulfur residual fuel prices fell 1.4 cents to 26.0 cents per gallon at retail, but rose 0.9 cent to 27.0 cents per gallon at wholesale. Including data reported by the sample of residual fuel oil marketers, the average low-sulfur price dropped 0.5 cent to 32.0 cents per gallon at retail, and increased 2.3 cents to 29.9 cents per gallon at wholesale. The average price for high-sulfur residual fuel oil fell 1.4 cents to 26.3 cents per gallon at retail, but rose 0.6 cent to 27.1 cents per gallon at wholesale.

- Residual fuel oil sales by refiners were fell again during September. Total sales decreased 3.9 million gallons per day (11.4 percent), to 30.4 million gallons per day. Low-sulfur residual fuel sales dropped 3.5 million gallons per day (29.2 percent), while high-sulfur residual fuel sales declined 200,000 gallons per day (0.9 percent).

Other Products

- September prices for products included in this section were mixed. Refiner propane prices rose 3.6 cents per gallon at retail, but fell 0.6 cent at wholesale. Including the sample of propane marketers, the average residential propane price dropped 0.2 cent per gallon. The average end-user and wholesale prices for propane rose 0.9 cent per gallon and 0.4 cent per gallon, respectively. Kerosene-type jet fuel, kerosene prices increased at both levels. Aviation gasoline fell at both levels while No. 1 distillate rose at wholesale.

- Sales of these products were varied in September. Propane, kerosene and No. 4 distillate sales fell at retail but rose at wholesale. Sales of kerosene-type jet fuel and aviation gasoline fell at both levels. Retail sales of No. 1 were up moderately.

Summary Statistics

Table 1. Crude Oil Prices

(Dollars per Barrel)

Year Month	Domestic First Purchase Prices	Average F.O.B.[a] Cost of Crude Oil Imports[b]	Average Landed Cost of Crude Oil Imports[b]	Refiner Acquisition Cost of Crude Oil		
				Domestic	Imported	Composite
1978	**9.00**	**13.29**	**14.35**	**10.61**	**14.57**	**12.46**
1979	**12.64**	**20.07**	**21.45**	**14.27**	**21.67**	**17.72**
1980	**21.59**	**32.37**	**33.67**	**24.23**	**33.89**	**28.07**
1981	**31.77**	**35.15**	**36.47**	**34.33**	**37.05**	**35.24**
1982	**28.52**	**32.02**	**33.18**	**31.22**	**33.55**	**31.87**
1983	**26.19**	**27.81**	**28.93**	**28.87**	**29.30**	**28.99**
1984	**25.88**	**27.60**	**28.54**	**28.53**	**28.88**	**28.63**
1985	**24.09**	**25.84**	**26.67**	**26.66**	**26.99**	**26.75**
1986	**12.51**	**12.52**	**13.49**	**14.82**	**14.00**	**14.55**
1987	**15.40**	**16.69**	**17.65**	**17.76**	**18.13**	**17.90**
1988	**12.58**	**13.25**	**14.08**	**14.74**	**14.56**	**14.67**
1989	**15.86**	**16.89**	**17.68**	**17.87**	**18.08**	**17.97**
1990	**20.03**	**20.37**	**21.13**	**22.59**	**21.76**	**22.22**
1991	**16.54**	**16.89**	**18.02**	**19.33**	**18.70**	**19.06**
1992	**15.99**	**16.77**	**17.75**	**18.63**	**18.20**	**18.43**
1993	**14.25**	**14.71**	**15.72**	**16.67**	**16.14**	**16.41**
1994	**13.19**	**14.18**	**15.18**	**15.67**	**15.51**	**15.59**
1995	**14.62**	**15.69**	**16.78**	**17.33**	**17.14**	**17.23**
1996						
January	15.43	16.17	17.31	17.98	17.48	17.74
February	15.54	16.86	17.81	18.10	17.77	17.95
March	17.63	18.77	19.61	19.63	19.90	19.76
April	19.58	19.56	20.73	21.88	21.33	21.63
May	17.94	18.34	19.61	21.15	20.12	20.61
June	16.94	17.61	18.83	19.30	19.32	19.31
July	17.63	18.21	19.35	19.91	19.60	19.76
August	18.29	19.27	20.30	20.55	20.53	20.54
September	19.93	21.03	21.95	21.87	22.04	21.96
October	21.09	22.23	23.05	22.93	23.22	23.08
November	20.20	21.31	22.24	23.08	22.66	22.87
December	21.34	21.56	22.48	23.38	23.22	23.30
1996	**18.46**	**19.32**	**20.31**	**20.77**	**20.64**	**20.71**
1997						
January	21.76	21.31	22.31	24.29	23.05	23.62
February	19.38	18.99	19.98	22.47	20.92	21.65
March	17.85	17.11	18.45	20.57	19.16	19.82
April	16.64	16.20	17.52	19.01	17.85	18.36
May	17.24	16.81	17.87	19.20	18.54	18.84
June	15.90	15.99	17.12	18.45	17.38	17.87
July	15.91	16.38	17.28	18.35	17.48	17.88
August	16.21	16.68	17.78	18.59	17.96	18.23
September	16.44	16.76	17.85	18.49	17.96	18.20
October	17.68	17.26	18.51	19.73	18.88	19.26
November	16.84	16.13	17.35	19.23	18.08	18.61
December	15.06	14.21	15.70	17.92	16.16	17.00
1997	**17.24**	**16.94**	**18.11**	**19.67**	**18.59**	**19.08**
1998						
January	13.48	12.76	14.12	15.87	14.55	15.14
February	12.16	11.72	13.11	14.77	13.41	14.03
March	11.53	11.08	12.39	13.52	12.36	12.87
April	11.64	11.18	12.34	13.47	12.85	13.10
May	11.49	11.28	12.24	13.52	12.66	13.01
June	10.00	10.17	11.27	12.43	11.67	11.98
July	10.46	10.37	11.41	12.39	11.56	11.92
August	10.18	10.20	11.27	12.45	11.34	11.79
September	11.28	11.66	12.55	13.40	12.81	13.05

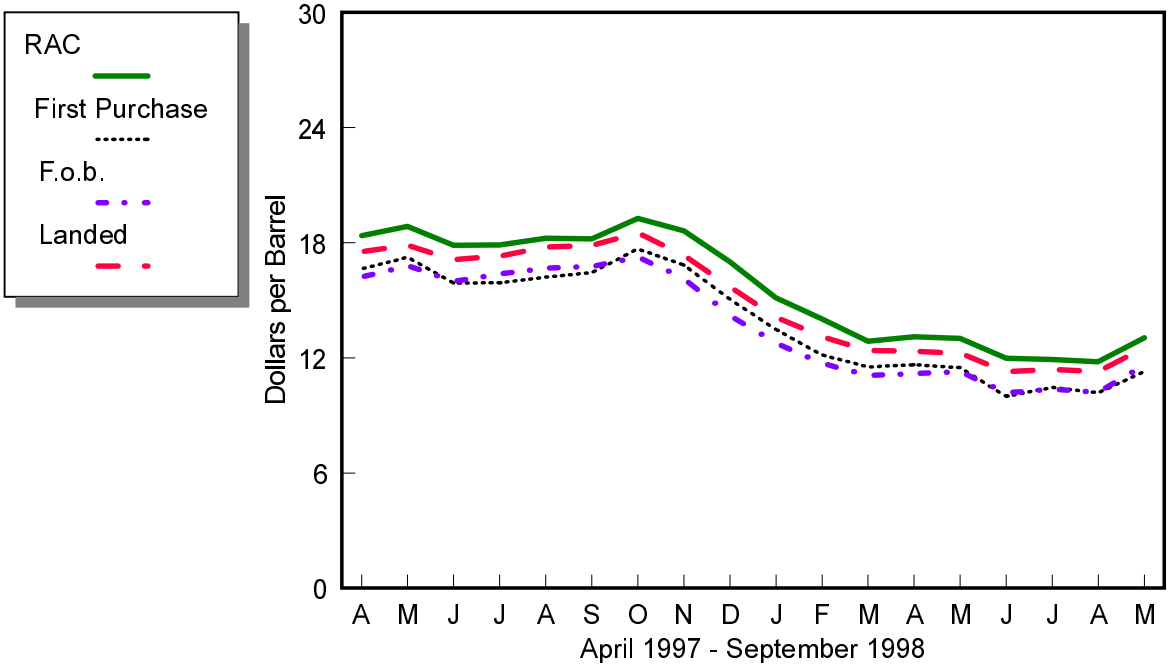
[a] Free on Board. See Glossary.

[b] Values through 1980 reflect the month of reporting; values since then reflect the month of acquisition, which can be the month of loading, the month of landing, or sometime between those events. Prices for crude oil can be determined at a time other than the acquisition date. See the Explanatory Notes section for additional detail.

Notes: Values for Domestic First Purchase and Refiner Acquisition for the current month, and for Average F.O.B. and Average Landed for current 2 months are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual.*

Sources: Domestic first purchase prices -- See "Sources" from Table 21. Crude oil imports costs -- See "Sources" from Table 24. Refiner acquisition costs -- Energy Information Administration, Form FEA-P110-M-1, "Refiners' Monthly Cost Allocation Report," January 1978 through June 1978; Form ERA-49, "Domestic Crude Oil Entitlements Program Refiners' Monthly Report," July 1978 through December 1980; Form EIA-14, "Refiners' Monthly Cost Report," January 1981 to present.

Figure 1. Crude Oil Prices



Sources: Energy Information Administration, Form EIA-182, "Domestic Crude Oil First Purchase Report"; Form EIA-856, "Monthly Foreign Crude Oil Acquisition Report"; and Form EIA-14, "Refiners' Monthly Cost Report."

Table 2. U.S. Refiner Prices of Petroleum Products to End Users

(Cents per Gallon Excluding Taxes)

Year Month	Motor Gasoline	Aviation Gasoline	Kerosene-Type Jet Fuel	Propane (Consumer Grade)	Kerosene	No. 1 Distillate	No. 2 Distillate			No. 4 Fuel[a]	Residual Fuel Oil
							No. 2 Diesel Fuel	No. 2 Fuel Oil	Average		
1978	**48.4**	**51.6**	**38.7**	**33.5**	**42.1**	**41.0**	**37.7**	**40.0**	**39.6**	**31.1**	**29.8**
1979	**71.3**	**68.9**	**54.7**	**35.7**	**58.5**	**57.2**	**58.5**	**51.6**	**55.1**	**47.9**	**43.6**
1980	**103.5**	**108.4**	**86.8**	**48.2**	**90.2**	**83.4**	**81.8**	**78.8**	**80.4**	**68.2**	**60.7**
1981	**114.7**	**130.3**	**102.4**	**56.5**	**112.3**	**103.9**	**99.5**	**91.4**	**95.8**	**79.7**	**75.6**
1982	**106.0**	**131.2**	**96.3**	**59.2**	**108.9**	**102.3**	**94.2**	**90.5**	**92.5**	**75.0**	**67.6**
1983	**95.4**	**125.5**	**87.8**	**70.9**	**96.1**	**96.2**	**82.6**	**91.6**	**83.9**	**76.6**	**65.1**
1984	**90.7**	**123.4**	**84.2**	**73.7**	**103.6**	**92.7**	**82.3**	**91.6**	**83.7**	**79.6**	**68.7**
1985	**91.2**	**120.1**	**79.6**	**71.7**	**103.0**	**88.0**	**78.9**	**84.9**	**79.9**	**77.3**	**61.0**
1986	**62.4**	**101.1**	**52.9**	**74.5**	**79.0**	**62.0**	**47.8**	**56.0**	**49.1**	**48.9**	**34.3**
1987	**66.9**	**90.7**	**54.3**	**70.1**	**77.0**	**60.4**	**55.1**	**58.1**	**55.6**	**51.3**	**42.3**
1988	**67.3**	**89.1**	**51.3**	**71.4**	**73.8**	**56.4**	**50.0**	**54.4**	**50.7**	**46.1**	**33.4**
1989	**75.6**	**99.5**	**59.2**	**61.5**	**70.9**	**66.1**	**58.5**	**58.7**	**58.5**	**51.2**	**38.5**
1990	**88.3**	**112.0**	**76.6**	**74.5**	**92.3**	**81.9**	**72.5**	**73.4**	**72.6**	**62.2**	**44.4**
1991	**79.7**	**104.7**	**65.2**	**73.0**	**83.8**	**74.0**	**64.8**	**66.5**	**65.0**	**58.0**	**34.0**
1992	**78.7**	**102.7**	**61.0**	**64.3**	**78.8**	**66.6**	**61.9**	**62.7**	**62.0**	**52.6**	**33.6**
1993	**75.9**	**99.0**	**58.0**	**67.3**	**75.4**	**66.6**	**60.2**	**60.2**	**60.2**	**50.1**	**33.7**
1994	**73.8**	**95.7**	**53.4**	**53.0**	**66.0**	**64.0**	**55.4**	**57.2**	**55.6**	**50.1**	**35.2**
1995	**76.5**	**100.5**	**54.0**	**49.2**	**58.9**	**62.0**	**56.0**	**56.2**	**56.0**	**50.5**	**39.2**
1996											
January	74.8	101.2	61.3	63.7	71.8	65.1	59.0	63.5	59.8	60.4	47.9
February	74.9	100.6	56.9	64.2	73.4	66.6	60.0	64.1	60.8	58.5	44.9
March	79.8	105.0	59.0	63.0	69.0	71.0	64.4	66.8	64.7	61.8	44.7
April	88.1	111.4	66.0	57.0	80.5	75.9	71.9	69.9	71.6	65.1	45.1
May	92.7	114.4	63.3	49.5	68.4	73.7	69.8	64.9	69.3	63.2	43.3
June	90.3	113.5	57.7	48.5	58.5	64.4	62.2	57.5	61.7	53.8	40.8
July	87.5	113.7	60.3	50.8	64.6	65.1	62.3	59.4	62.0	50.8	41.0
August	84.9	114.4	65.1	48.6	69.5	71.0	66.4	66.1	66.4	52.5	42.0
September	84.4	114.3	71.8	51.4	76.4	77.5	72.9	72.1	72.8	58.5	44.9
October	84.4	115.0	73.6	57.7	87.1	82.3	76.9	75.1	76.7	62.1	48.5
November	86.8	115.1	71.7	71.1	88.7	79.2	75.7	75.0	75.6	63.7	49.7
December	86.0	115.3	74.0	87.5	90.7	77.7	74.4	75.1	74.5	65.9	49.9
1996	**84.7**	**111.6**	**65.1**	**60.5**	**74.0**	**72.6**	**68.1**	**67.3**	**68.0**	**60.3**	**45.5**
1997											
January	86.6	113.7	74.4	86.6	88.7	77.5	73.0	75.5	73.3	65.8	49.2
February	86.1	114.9	71.7	66.8	84.8	76.0	71.1	72.5	71.3	59.6	45.0
March	84.3	113.8	61.9	57.3	NA	68.8	65.8	66.4	65.8	54.6	40.3
April	83.9	114.7	60.3	49.7	69.8	66.3	64.8	63.8	64.7	55.9	39.7
May	84.5	115.7	58.8	46.5	68.4	64.2	63.8	62.9	63.7	53.4	40.3
June	83.3	114.6	57.6	46.1	64.3	62.8	60.7	59.2	60.5	52.8	40.1
July	81.5	112.5	56.7	47.5	63.1	58.6	59.4	57.3	59.1	50.3	39.6
August	86.8	114.6	59.1	50.5	64.9	61.8	61.8	59.0	61.5	51.6	40.7
September	87.2	115.6	58.2	48.4	63.4	61.1	60.7	58.4	60.4	51.1	41.4
October	84.3	113.9	61.5	52.3	72.8	66.8	64.5	63.2	64.3	55.5	43.9
November	81.6	113.0	61.2	52.2	77.9	70.1	65.2	64.2	65.0	58.2	45.7
December	77.8	107.7	56.3	51.8	75.1	63.8	60.1	59.7	60.1	56.1	40.2
1997	**83.9**	**113.8**	**61.2**	**55.2**	**74.4**	**68.5**	**64.2**	**63.6**	**64.1**	**56.5**	**42.3**
1998											
January	73.3	104.3	52.3	48.4	72.3	58.5	54.9	54.1	54.8	50.9	35.3
February	69.0	101.1	49.9	44.7	68.2	57.7	53.3	53.8	53.3	48.7	32.7
March	65.6	98.2	45.3	43.8	65.3	56.0	50.8	53.9	51.1	46.0	28.6
April	67.4	98.6	46.6	41.5	56.7	56.3	52.2	53.0	52.3	43.8	31.7
May	71.0	99.9	46.7	36.2	56.0	53.0	51.9	48.5	51.4	43.6	31.8
June	70.4	99.0	42.8	34.1	46.1	NA	48.7	45.8	48.3	40.8	31.3
July	69.4	98.4	43.4	35.8	47.4	NA	47.6	44.8	47.3	38.4	31.4
August	66.7	95.9	43.6	33.5	41.5	NA	46.3	43.1	45.8	36.2	28.7
September	65.4	94.1	44.9	37.1	47.2	NA	49.4	47.4	49.1	39.9	27.6

NA = Not available.

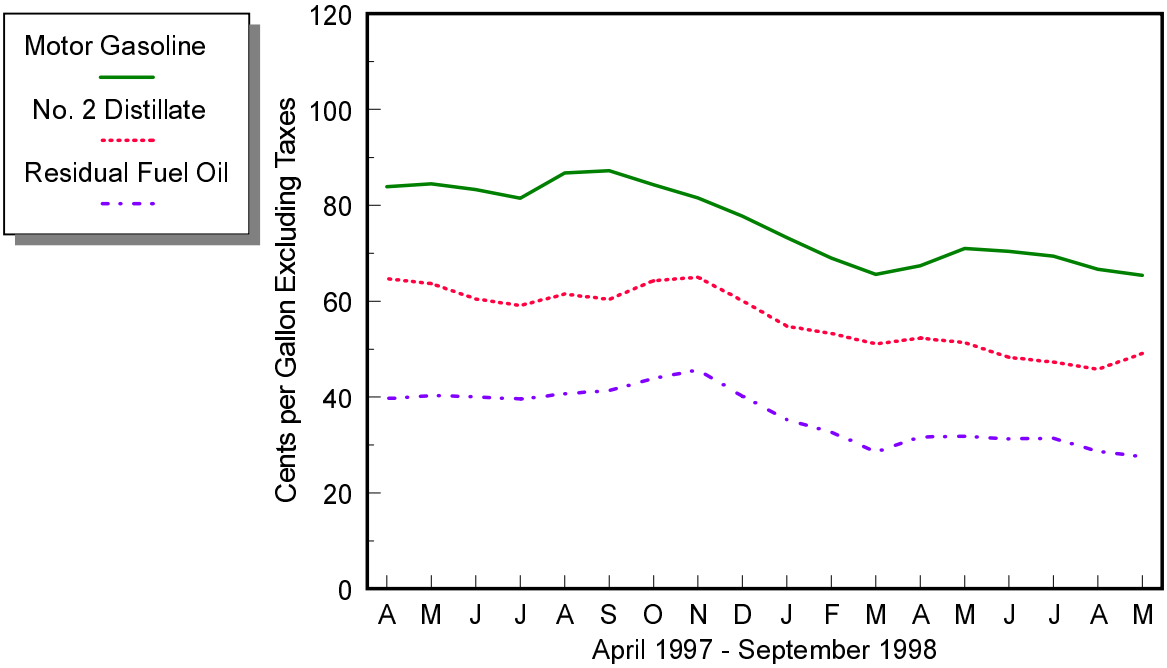
[a] Includes No. 4 fuel oil and No. 4 diesel fuel.

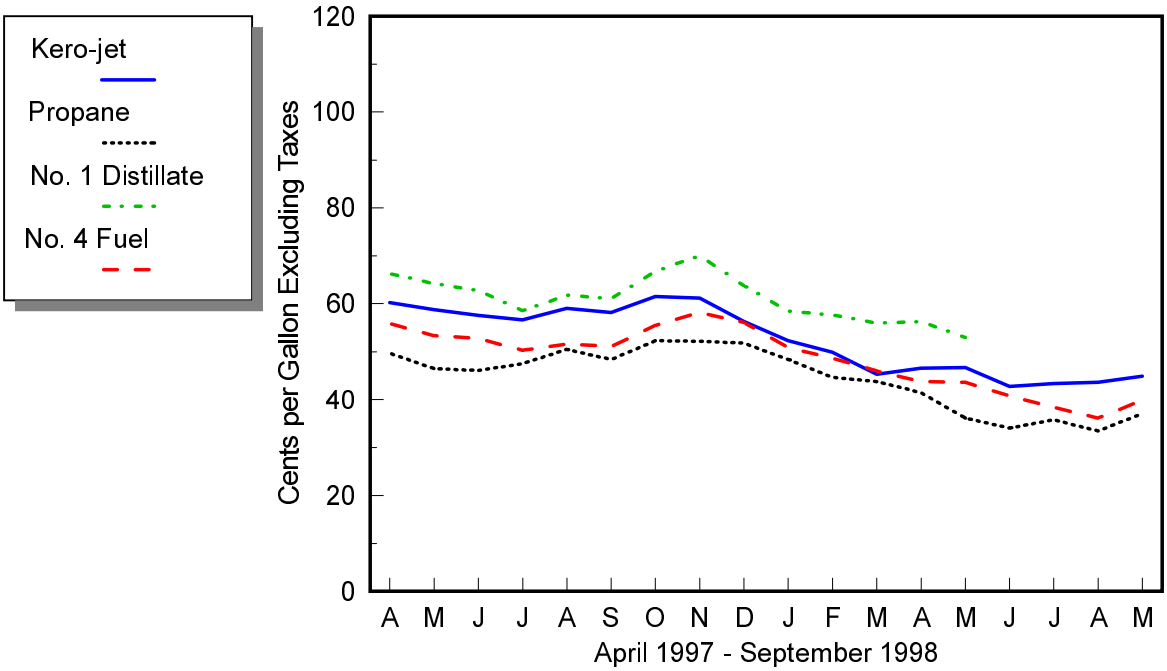
Notes: Motor gasoline averages and totals prior to October 1993 include leaded gasoline.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual.*

Sources: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," January 1983 forward; Form EIA-460, "Petroleum Industry Monthly Report for Product Prices," source for backcast estimates prior to January 1983.

Figure 2. U.S. Refiner Retail Petroleum Product Prices





Source: Energy Information Administration, Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

Table 3. U.S. Refiner Volumes of Petroleum Products to End Users

(Million Gallons per Day)

Year Month	Motor Gasoline	Aviation Gasoline	Kerosene-Type Jet Fuel	Propane (Consumer Grade)	Kerosene	No. 1 Distillate	No. 2 Distillate			No. 4 Fuel[a]	Residual Fuel Oil
							No. 2 Diesel Fuel	No. 2 Fuel Oil	Total		
1983	**51.1**	**0.4**	**30.8**	**3.1**	**0.2**	**0.5**	**23.3**	**3.7**	**27.0**	**0.7**	**28.3**
1984	**57.6**	**0.3**	**32.9**	**3.3**	**0.3**	**0.5**	**26.3**	**4.9**	**31.2**	**0.7**	**32.9**
1985	**57.5**	**0.3**	**34.6**	**3.7**	**0.3**	**0.5**	**25.0**	**5.0**	**29.9**	**0.5**	**25.2**
1986	**61.2**	**0.3**	**35.1**	**3.4**	**0.3**	**0.4**	**24.4**	**4.4**	**28.8**	**0.7**	**31.6**
1987	**61.0**	**0.2**	**36.8**	**3.8**	**0.3**	**0.4**	**24.1**	**4.5**	**28.5**	**0.8**	**29.0**
1988	**61.0**	**0.2**	**38.2**	**4.3**	**0.3**	**0.4**	**24.5**	**4.6**	**29.1**	**1.1**	**30.2**
1989	**61.2**	**0.2**	**40.1**	**2.8**	**0.3**	**0.5**	**24.3**	**4.5**	**28.8**	**0.9**	**30.4**
1990	**60.3**	**0.2**	**39.9**	**2.7**	**0.2**	**0.5**	**22.2**	**3.6**	**25.9**	**0.8**	**25.9**
1991	**61.2**	**0.2**	**38.5**	**3.1**	**0.2**	**0.5**	**21.1**	**3.2**	**24.4**	**0.7**	**24.0**
1992	**59.0**	**0.2**	**39.8**	**3.8**	**0.2**	**0.5**	**21.5**	**3.1**	**24.6**	**0.6**	**22.4**
1993	**57.2**	**0.2**	**41.7**	**3.5**	**0.2**	**0.4**	**20.8**	**2.9**	**23.8**	**0.6**	**17.2**
1994	**55.0**	**0.2**	**45.2**	**2.2**	**0.4**	**0.4**	**21.3**	**3.4**	**24.6**	**0.8**	**13.5**
1995	**55.9**	**0.2**	**45.7**	**3.2**	**0.6**	**0.3**	**21.6**	**3.3**	**24.9**	**0.5**	**11.6**
1996											
January	53.0	0.1	46.5	3.3	0.8	0.6	20.2	4.4	24.5	0.9	14.4
February	54.6	0.2	46.8	4.0	0.7	0.6	21.8	4.7	26.5	0.9	15.0
March	56.4	0.2	47.8	2.9	0.7	0.3	21.2	3.3	24.6	0.5	12.7
April	57.2	0.2	48.1	2.7	0.3	0.2	22.6	3.1	25.7	0.4	11.8
May	57.8	0.2	49.0	2.6	0.3	0.1	22.9	2.8	25.7	0.3	10.7
June	59.2	0.2	50.1	2.2	0.4	0.2	22.0	2.7	24.7	0.3	11.3
July	58.9	0.2	50.3	2.1	0.2	0.1	21.7	2.4	24.1	0.3	11.7
August	59.7	0.2	50.3	2.3	0.2	0.2	22.1	2.6	24.7	0.2	12.3
September	57.8	0.2	50.6	4.1	0.3	0.2	21.4	2.6	24.0	0.2	10.9
October	58.5	0.2	48.0	3.9	0.3	0.3	23.1	2.7	25.8	0.3	13.5
November	58.1	0.1	48.1	3.3	0.3	0.5	22.8	3.1	25.9	0.4	14.3
December	59.2	0.1	49.3	3.4	0.3	0.8	21.2	3.0	24.2	0.5	15.7
1996	**57.5**	**0.2**	**48.7**	**3.1**	**0.4**	**0.3**	**21.9**	**3.1**	**25.0**	**0.4**	**12.9**
1997											
January	54.8	0.1	45.6	3.2	0.5	0.6	21.8	3.5	25.4	0.6	15.0
February	58.0	0.1	47.6	3.7	0.4	0.6	22.3	2.8	25.1	0.4	15.1
March	59.3	0.2	48.0	3.3	0.4	0.3	22.2	2.6	24.8	0.3	13.8
April	58.9	0.2	49.0	3.4	0.3	0.2	23.6	2.9	26.5	0.2	11.3
May	58.2	0.2	49.2	2.9	0.3	0.2	22.8	2.7	25.5	0.2	10.9
June	60.0	0.2	51.4	2.3	0.2	0.2	21.9	2.5	24.4	0.2	12.4
July	65.4	0.2	51.6	2.1	0.1	0.2	21.7	3.0	24.7	0.3	13.7
August	64.9	0.2	51.8	2.3	0.2	0.2	20.9	3.0	23.9	0.2	12.3
September	63.8	0.2	51.1	3.1	0.3	0.2	23.2	2.9	26.1	0.2	12.9
October	64.5	0.2	49.7	3.5	0.2	0.3	23.1	3.1	26.2	0.3	15.4
November	62.3	0.1	48.6	3.8	0.3	0.4	20.5	3.1	23.7	0.4	14.4
December	66.0	0.1	50.2	4.4	0.3	0.6	20.9	3.5	24.4	0.4	17.5
1997	**61.4**	**0.2**	**49.5**	**3.2**	**0.3**	**0.3**	**22.1**	**3.0**	**25.1**	**0.3**	**13.7**
1998											
January	59.9	0.1	47.2	4.6	0.3	0.7	20.4	3.4	23.8	0.4	15.5
February	62.3	0.1	47.9	4.9	0.3	0.6	21.1	3.0	24.1	0.4	13.5
March	64.3	0.1	47.6	4.1	0.3	0.4	22.3	2.6	24.9	0.4	15.5
April	64.7	0.2	48.6	3.0	0.2	0.3	21.3	2.4	23.6	0.3	14.4
May	65.6	0.2	49.4	2.3	0.1	0.3	20.5	3.2	23.7	0.3	13.2
June	66.8	0.2	51.3	2.2	0.3	NA	22.6	3.8	26.5	0.3	13.8
July	67.3	0.2	51.7	1.9	0.3	NA	22.8	3.1	25.9	0.4	16.0
August	66.9	0.2	51.5	2.4	0.6	NA	21.2	3.7	25.0	0.4	17.8
September	65.2	0.2	48.0	2.3	0.3	NA	22.2	3.9	26.1	0.3	13.0

NA = Not available.

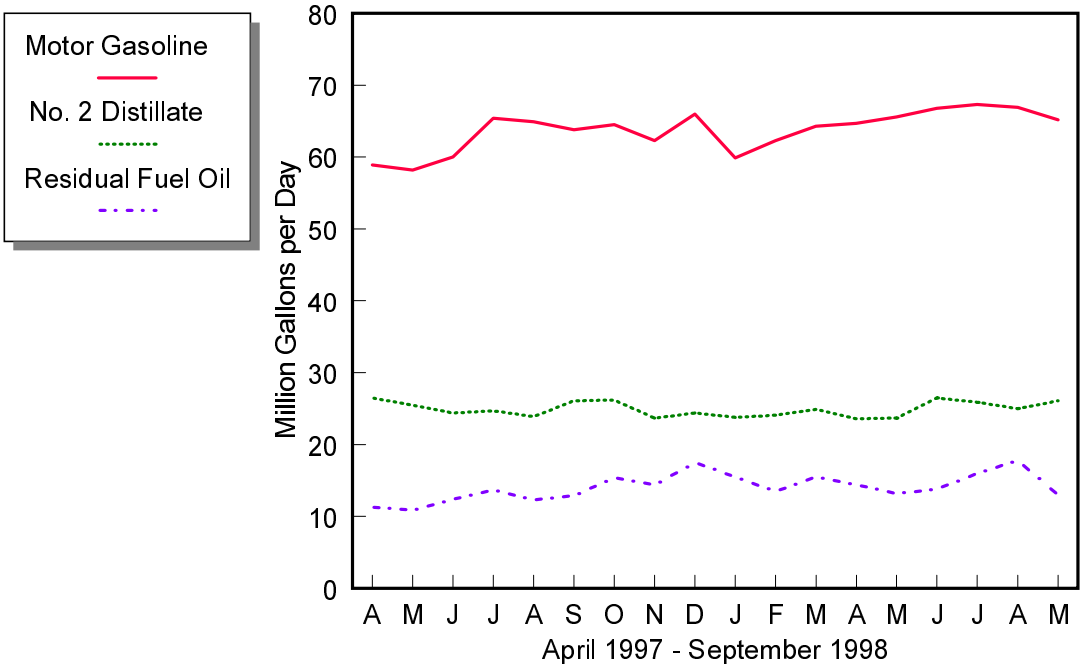
[a] Includes No. 4 fuel oil and No. 4 diesel fuel.

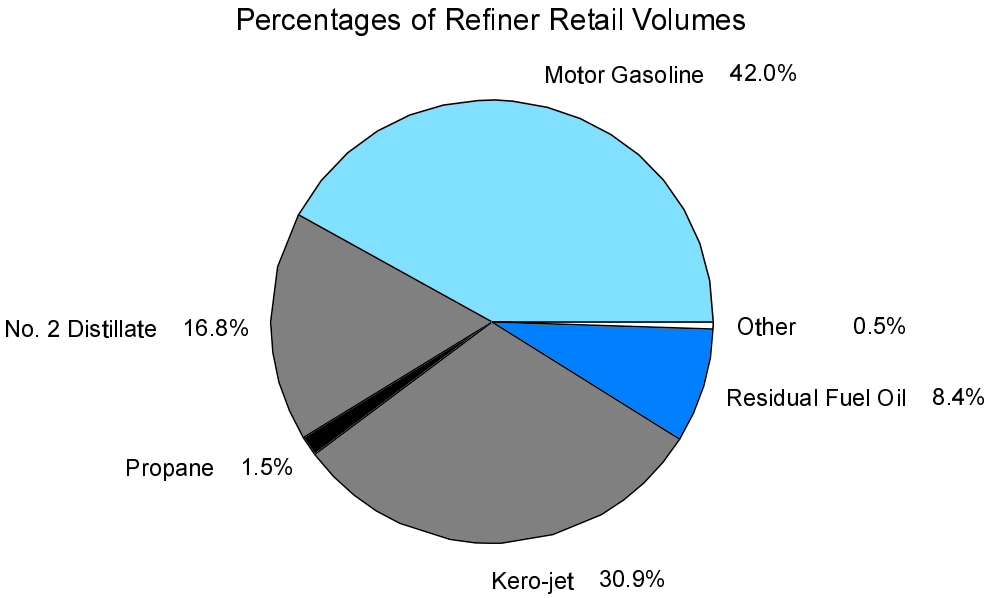
Notes: Motor gasoline averages and totals prior to October 1993 include leaded gasoline.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual.* Totals may not equal the sum of the components due to rounding.

Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

Figure 3. U.S. Refiner Retail Petroleum Product Volumes





Source: Energy Information Administration, Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

Table 4. U.S. Refiner Prices of Petroleum Products for Resale

(Cents per Gallon Excluding Taxes)

Year Month	Motor Gasoline	Aviation Gasoline	Kerosene-Type Jet Fuel	Propane (Consumer Grade)	Kerosene	No. 1 Distillate	No. 2 Distillate			No. 4 Fuel[a]	Residual Fuel Oil
							No. 2 Diesel Fuel	No. 2 Fuel Oil	Average		
1978	**43.4**	**53.7**	**38.6**	**23.7**	**40.4**	**40.6**	**36.5**	**36.9**	**36.7**	**30.5**	**26.3**
1979	**63.7**	**72.1**	**66.0**	**29.1**	**62.4**	**58.3**	**57.4**	**56.9**	**57.1**	**47.0**	**39.9**
1980	**94.1**	**112.8**	**86.8**	**41.5**	**86.4**	**88.0**	**80.1**	**80.3**	**80.2**	**67.0**	**52.8**
1981	**106.4**	**125.0**	**101.2**	**46.6**	**106.6**	**107.1**	**97.2**	**97.6**	**97.4**	**78.3**	**66.3**
1982	**97.3**	**122.8**	**95.3**	**42.7**	**101.8**	**103.8**	**91.4**	**91.4**	**91.4**	**73.7**	**61.2**
1983	**88.2**	**117.8**	**85.4**	**48.4**	**89.2**	**89.6**	**80.8**	**81.5**	**81.2**	**72.6**	**60.9**
1984	**83.2**	**116.5**	**83.0**	**45.0**	**91.6**	**89.2**	**80.3**	**82.1**	**81.3**	**70.7**	**65.4**
1985	**83.5**	**113.0**	**79.4**	**39.8**	**87.4**	**86.3**	**77.2**	**77.6**	**77.4**	**67.2**	**57.7**
1986	**53.1**	**91.2**	**49.5**	**29.0**	**60.6**	**57.9**	**45.2**	**48.6**	**47.0**	**40.9**	**30.5**
1987	**58.9**	**85.9**	**53.8**	**25.2**	**59.2**	**59.9**	**53.4**	**52.7**	**53.1**	**46.2**	**38.5**
1988	**57.7**	**85.0**	**49.5**	**24.0**	**54.9**	**54.9**	**47.3**	**47.3**	**47.3**	**42.5**	**30.0**
1989	**65.4**	**95.0**	**58.3**	**24.7**	**66.9**	**66.8**	**56.7**	**56.5**	**56.6**	**48.0**	**36.0**
1990	**78.6**	**106.3**	**77.3**	**38.6**	**83.9**	**83.8**	**69.4**	**69.7**	**69.5**	**59.0**	**41.3**
1991	**69.9**	**100.1**	**65.0**	**34.9**	**72.3**	**73.0**	**61.5**	**62.2**	**61.8**	**55.6**	**31.4**
1992	**67.7**	**99.1**	**60.5**	**32.8**	**63.2**	**65.2**	**59.1**	**57.9**	**58.5**	**49.5**	**30.8**
1993	**62.6**	**96.5**	**57.7**	**35.1**	**60.4**	**64.6**	**57.0**	**54.4**	**55.9**	**48.8**	**29.3**
1994	**59.9**	**93.3**	**53.4**	**32.4**	**61.8**	**61.5**	**52.9**	**50.6**	**52.2**	**46.2**	**31.7**
1995	**62.6**	**97.5**	**53.9**	**34.4**	**58.0**	**62.5**	**53.8**	**51.1**	**53.0**	**46.3**	**36.3**
1996											
January	61.0	94.7	60.3	41.6	65.8	65.0	56.2	56.8	56.4	60.3	45.2
February	61.6	96.5	57.3	44.2	65.7	66.6	57.9	58.9	58.2	58.2	40.1
March	67.9	100.6	59.6	41.1	68.0	70.5	61.9	62.8	62.2	59.1	42.0
April	76.1	107.5	65.3	37.8	75.1	78.2	70.1	67.5	69.4	61.6	43.7
May	78.0	110.0	62.2	36.2	66.1	79.2	66.8	61.1	65.5	57.8	41.0
June	73.0	107.0	57.5	36.2	59.8	69.3	59.1	53.7	57.8	54.3	37.4
July	72.3	105.3	59.6	36.9	61.7	69.8	60.0	57.1	59.4	51.8	38.9
August	71.1	107.1	64.5	38.9	66.6	76.7	64.9	62.1	64.3	54.7	39.0
September	71.6	106.8	71.6	45.2	75.6	83.3	71.7	68.7	71.0	57.2	41.2
October	72.8	107.1	73.6	51.1	80.7	85.7	75.4	72.7	74.7	63.9	45.0
November	74.5	108.4	72.2	57.9	79.7	84.0	73.3	71.4	72.7	65.7	46.3
December	73.1	107.1	73.0	67.7	79.0	80.0	71.0	71.2	71.1	65.7	46.0
1996	**71.3**	**105.5**	**64.6**	**46.1**	**71.4**	**75.1**	**65.9**	**63.9**	**65.3**	**60.3**	**42.0**
1997											
January	74.8	109.0	73.5	59.9	77.7	78.9	69.9	69.8	69.8	63.8	42.9
February	73.1	108.7	71.4	44.7	73.4	77.0	67.8	64.5	66.6	58.8	39.4
March	71.5	107.9	61.8	41.3	63.2	72.7	62.5	57.7	61.1	53.7	35.8
April	70.4	108.5	60.5	37.7	62.1	70.6	61.7	58.6	61.0	49.7	36.1
May	71.1	108.2	59.4	36.9	61.1	69.7	60.7	58.8	60.3	52.9	35.8
June	68.3	105.9	58.1	36.4	57.1	66.5	56.5	54.5	56.1	47.0	36.7
July	67.5	104.9	56.8	35.9	56.2	63.6	55.8	53.8	55.4	46.0	36.6
August	75.0	108.9	59.4	37.5	60.5	67.3	58.9	55.3	58.1	52.6	38.3
September	72.3	108.9	58.8	39.5	60.1	67.2	57.8	54.3	57.0	54.1	38.7
October	68.6	104.5	61.3	41.1	63.8	72.0	61.7	59.0	61.2	56.8	42.0
November	65.9	102.1	61.3	39.6	62.6	71.0	61.5	58.4	60.7	57.3	43.5
December	61.7	99.8	55.6	37.5	57.8	64.1	55.0	53.4	54.6	49.0	35.6
1997	**70.0**	**106.6**	**61.2**	**41.6**	**65.1**	**72.1**	**60.6**	**58.9**	**60.2**	**55.1**	**38.7**
1998											
January	57.6	96.2	53.4	35.4	52.8	57.1	49.6	48.9	49.4	45.9	31.1
February	55.1	92.0	50.2	33.1	51.6	56.4	48.3	47.7	48.1	43.6	28.2
March	52.3	90.4	45.7	31.2	47.6	54.3	45.8	44.9	45.6	37.5	26.4
April	54.9	90.9	46.6	30.3	46.3	57.6	48.2	44.9	47.4	41.7	30.3
May	57.9	94.0	46.9	29.3	45.8	56.4	47.0	43.4	46.1	40.3	29.4
June	55.6	93.7	43.5	26.6	42.9	52.0	43.6	39.9	42.9	36.5	27.9
July	54.3	93.6	43.8	25.7	41.7	50.2	42.6	38.8	41.9	37.5	29.6
August	50.6	91.7	42.9	25.7	40.7	51.3	41.4	36.9	40.5	36.0	26.5
September	50.9	89.8	44.6	26.3	45.7	53.6	45.6	41.8	44.9	36.1	27.9

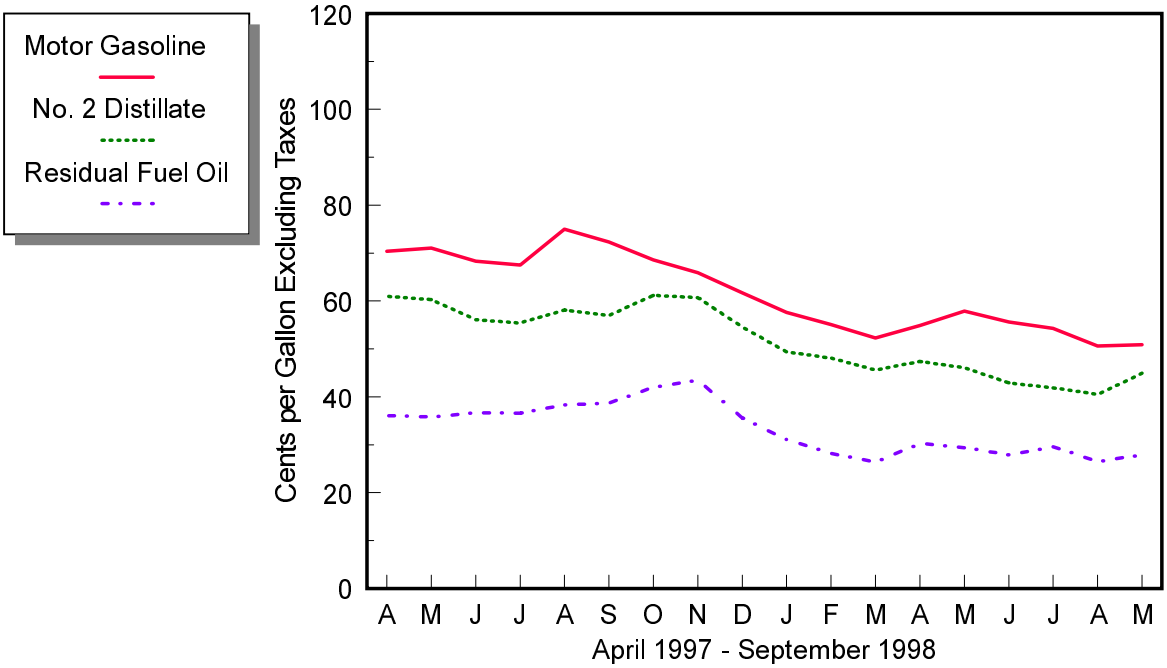
[a] Includes No. 4 fuel oil and No. 4 diesel fuel.

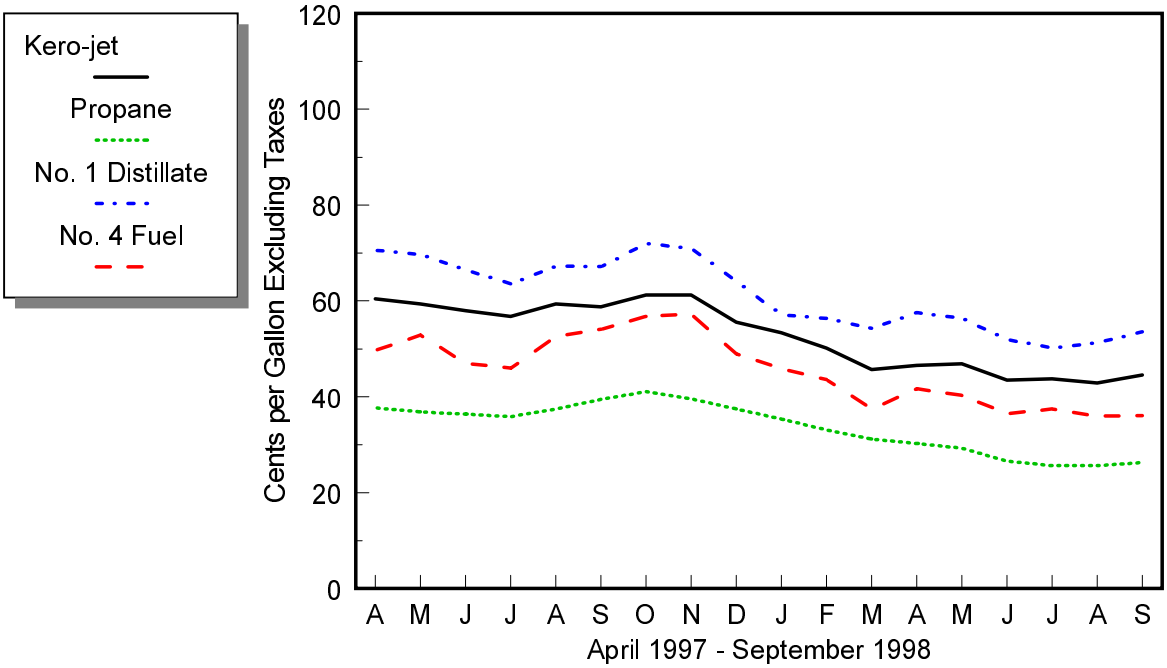
Notes: Motor gasoline averages and totals prior to October 1993 include leaded gasoline.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Sources: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," January 1983 forward; Form EIA-460, "Petroleum Industry Monthly Report for Product Prices," source for backcast estimates prior to January 1983.

Figure 4. U.S. Refiner Wholesale Petroleum Product Prices





Source: Energy Information Administration, Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

Table 5. U.S. Refiner Volumes of Petroleum Products for Resale

(Million Gallons per Day)

Year Month	Motor Gasoline	Aviation Gasoline	Kerosene-Type Jet Fuel	Propane (Consumer Grade)	Kerosene	No. 1 Distillate	No. 2 Distillate			No. 4 Fuel[a]	Residual Fuel Oil
							No. 2 Diesel Fuel	No. 2 Fuel Oil	Total		
1983	**242.5**	**0.7**	**5.4**	**26.0**	**2.5**	**2.4**	**38.1**	**47.3**	**85.5**	**0.9**	**20.2**
1984	**246.3**	**0.8**	**6.6**	**26.7**	**2.2**	**2.6**	**42.8**	**51.4**	**94.2**	**1.7**	**21.3**
1985	**256.9**	**0.7**	**7.6**	**29.2**	**2.4**	**2.7**	**43.3**	**53.9**	**97.3**	**1.2**	**19.9**
1986	**257.2**	**0.7**	**9.2**	**26.3**	**2.4**	**2.5**	**46.4**	**53.8**	**100.3**	**1.2**	**18.6**
1987	**257.2**	**0.8**	**10.1**	**27.0**	**2.3**	**2.0**	**44.3**	**49.3**	**93.6**	**1.5**	**16.9**
1988	**263.7**	**0.7**	**10.0**	**27.7**	**2.7**	**2.6**	**47.8**	**50.1**	**97.9**	**1.2**	**18.9**
1989	**260.7**	**0.7**	**8.6**	**25.9**	**2.7**	**2.7**	**50.7**	**46.7**	**97.5**	**1.2**	**21.0**
1990	**264.8**	**0.7**	**8.8**	**25.5**	**2.2**	**2.4**	**51.9**	**45.9**	**97.8**	**0.8**	**17.9**
1991	**261.3**	**0.7**	**8.7**	**25.4**	**2.1**	**2.4**	**51.5**	**46.9**	**98.3**	**0.4**	**17.8**
1992	**265.4**	**0.7**	**8.0**	**26.7**	**2.2**	**2.3**	**50.8**	**48.9**	**99.7**	**0.4**	**15.2**
1993	**266.9**	**0.6**	**8.3**	**27.9**	**2.3**	**2.3**	**58.0**	**43.6**	**101.7**	**0.4**	**12.6**
1994	**276.7**	**0.7**	**9.1**	**28.4**	**2.5**	**1.9**	**72.4**	**32.9**	**105.3**	**0.4**	**12.8**
1995	**288.8**	**0.6**	**9.9**	**30.6**	**2.4**	**1.7**	**75.9**	**31.0**	**106.9**	**0.3**	**13.6**
1996											
January	264.5	0.4	12.7	44.2	6.2	4.3	72.7	46.4	119.1	0.5	16.7
February	283.4	0.5	13.2	40.8	5.9	3.5	78.3	45.4	123.7	0.5	15.0
March	280.3	0.5	11.8	32.1	3.1	1.3	82.4	37.0	119.4	0.5	16.7
April	299.7	0.6	12.4	27.3	1.4	0.4	89.1	31.2	120.3	0.3	13.5
May	301.4	0.7	11.2	22.2	0.9	0.2	85.6	24.9	110.5	0.2	12.7
June	306.8	0.7	10.0	23.1	0.6	0.3	83.8	25.9	109.6	0.1	14.1
July	310.4	0.8	11.1	25.0	0.7	0.3	86.6	22.8	109.4	0.2	14.1
August	306.9	0.9	11.7	30.2	1.1	0.4	87.4	23.9	111.3	0.1	15.6
September	286.4	0.7	10.0	30.4	2.0	0.9	85.2	26.8	112.0	0.2	11.8
October	293.7	0.6	11.2	35.3	2.9	1.9	92.2	33.1	125.2	0.2	11.2
November	292.6	0.5	10.3	41.0	3.4	3.6	80.7	38.3	119.1	0.3	11.3
December	297.0	0.4	12.8	43.2	4.1	4.1	79.8	42.3	122.1	0.5	12.3
1996	**293.6**	**0.6**	**11.5**	**32.9**	**2.7**	**1.8**	**83.7**	**33.1**	**116.8**	**0.3**	**13.8**
1997											
January	275.8	0.4	11.1	44.6	5.3	4.4	81.6	46.3	127.8	0.5	13.8
February	288.4	0.5	10.0	38.4	3.4	2.7	79.4	42.3	121.7	0.4	13.5
March	289.8	0.5	10.3	28.1	2.0	1.1	85.0	35.7	120.7	0.3	9.5
April	293.1	0.6	9.7	25.8	1.3	0.4	91.1	29.9	121.0	0.3	10.5
May	300.3	0.7	10.2	24.8	1.0	0.3	90.4	26.1	116.4	0.1	8.0
June	296.9	0.8	11.2	24.4	0.8	0.4	94.0	28.0	122.0	0.2	10.9
July	306.7	0.8	11.3	26.5	1.4	0.4	92.3	23.9	116.1	0.1	11.1
August	304.0	0.8	12.0	28.7	1.2	0.4	87.5	25.0	112.5	0.2	12.3
September	290.8	0.7	10.6	32.4	1.9	0.9	94.5	27.0	121.5	0.1	11.8
October	299.6	0.6	11.0	34.7	2.6	1.6	100.7	26.4	127.1	0.1	12.7
November	286.2	0.5	14.1	35.8	4.0	3.1	85.8	27.6	113.5	0.1	11.8
December	298.4	0.5	14.3	42.5	4.9	3.2	90.1	35.4	125.6	0.3	12.9
1997	**294.3**	**0.6**	**11.3**	**32.2**	**2.5**	**1.6**	**89.4**	**31.1**	**120.5**	**0.2**	**11.6**
1998											
January	279.7	0.4	11.4	38.8	4.4	3.1	84.6	34.3	119.0	0.2	14.0
February	285.9	0.5	11.4	38.9	3.9	1.7	84.2	35.3	119.4	0.2	10.2
March	291.1	0.6	12.6	33.9	2.9	1.1	88.5	32.0	120.5	0.3	12.7
April	310.5	0.7	12.7	29.1	1.7	0.3	89.6	27.3	116.9	0.1	17.4
May	311.1	0.7	11.0	25.0	1.1	0.2	87.2	28.6	115.8	0.1	14.5
June	323.9	0.8	13.2	28.8	1.3	0.3	101.8	23.5	125.3	0.1	18.2
July	321.9	0.9	11.6	26.8	1.1	0.3	100.9	22.0	122.8	0.0	19.4
August	308.4	0.7	12.4	27.7	0.9	0.4	94.8	20.9	115.8	0.0	16.5
September	299.1	0.7	10.7	31.5	1.4	0.8	96.7	21.0	117.7	0.1	17.4

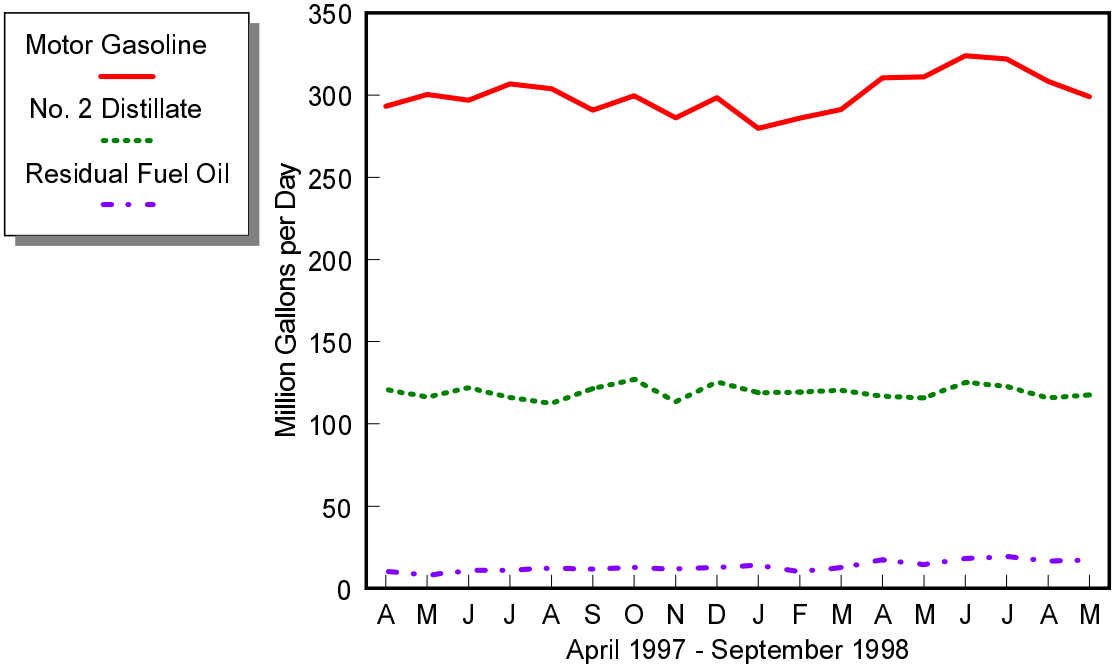
[a] Includes No. 4 fuel oil and No. 4 diesel fuel.

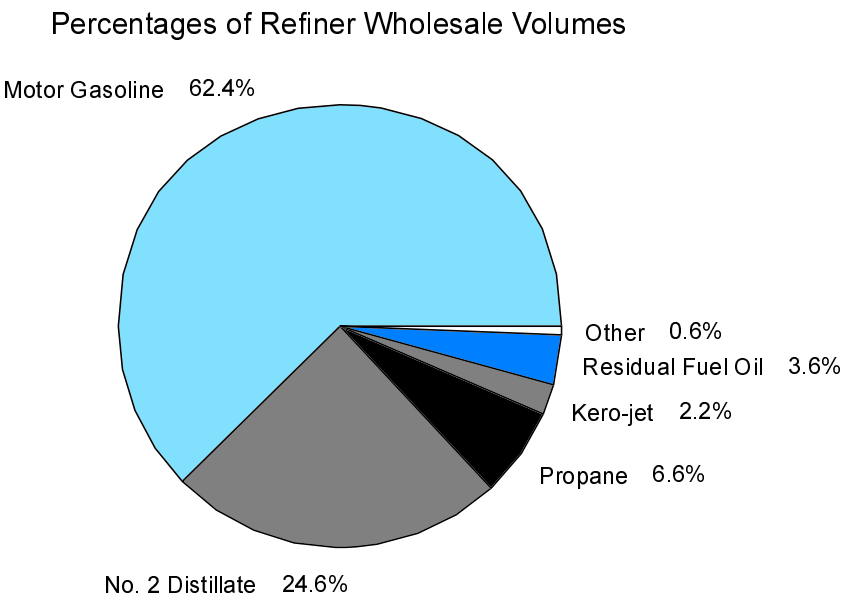
Notes: Motor gasoline averages and totals prior to October 1993 include leaded gasoline.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual.*

Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

Figure 5. U.S. Refiner Wholesale Petroleum Product Volumes





Source: Energy Information Administration, Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

Table 6. U.S. Refiner Motor Gasoline Prices by Grade and Sales Type

(Cents per Gallon Excluding Taxes)

Year Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average
1983	**98.0**	**97.0**	**–**	**–**	**–**	**89.5**	**–**	**–**	**–**	**–**	**–**	**–**
1984	**92.2**	**91.4**	**–**	**–**	**–**	**84.2**	**–**	**–**	**–**	**–**	**–**	**–**
1985	**92.5**	**91.7**	**–**	**–**	**–**	**84.3**	**–**	**–**	**–**	**–**	**–**	**–**
1986	**62.4**	**61.6**	**–**	**–**	**–**	**52.2**	**–**	**–**	**–**	**–**	**–**	**–**
1987	**65.9**	**65.0**	**–**	**–**	**–**	**56.9**	**–**	**–**	**–**	**–**	**–**	**–**
1988	**64.9**	**64.1**	**–**	**–**	**–**	**54.8**	**–**	**–**	**–**	**–**	**–**	**–**
1989	**72.0**	**71.4**	**–**	**–**	**–**	**61.8**	**79.6**	**79.3**	**–**	**–**	**–**	**68.6**
1990	**85.3**	**84.9**	**–**	**–**	**–**	**75.8**	**92.3**	**92.1**	**–**	**–**	**–**	**81.4**
1991	**76.4**	**76.1**	**–**	**–**	**–**	**67.2**	**84.7**	**84.3**	**–**	**–**	**–**	**73.3**
1992	**74.6**	**74.3**	**–**	**–**	**–**	**64.5**	**83.1**	**82.7**	**–**	**–**	**–**	**70.8**
1993	**71.6**	**71.2**	**–**	**–**	**–**	**59.3**	**81.0**	**80.5**	**–**	**–**	**–**	**66.0**
1994	**69.5**	**68.9**	**64.6**	**54.7**	**50.2**	**56.6**	**79.1**	**78.5**	**70.4**	**58.4**	**NA**	**63.8**
1995	**72.3**	**71.7**	**68.2**	**57.6**	**53.4**	**59.3**	**81.3**	**80.8**	**73.7**	**61.9**	**NA**	**67.0**
1996												
January	70.5	69.9	66.3	55.9	52.2	57.7	79.6	79.1	71.7	60.3	–	65.4
February	70.5	70.0	66.4	57.0	53.0	58.4	79.8	79.3	72.2	61.1	–	66.1
March	75.8	75.3	70.9	64.0	59.3	64.9	84.7	84.3	77.0	67.9	W	72.0
April	84.5	83.9	81.0	72.4	66.6	73.2	93.7	93.2	87.0	76.9	–	81.3
May	89.3	88.8	88.0	72.7	68.0	75.2	99.1	98.6	93.7	77.0	–	84.2
June	86.9	86.3	85.2	67.4	61.6	70.0	96.5	95.9	91.0	70.6	–	79.4
July	83.9	83.4	81.9	67.3	62.0	69.4	93.4	93.0	87.6	71.2	–	78.1
August	81.2	80.7	78.0	66.7	61.5	68.3	90.6	90.2	83.7	70.5	NA	76.1
September	80.8	80.4	76.4	67.7	62.4	68.8	89.8	89.4	82.1	71.5	W	76.1
October	80.9	80.4	75.7	69.7	63.4	70.1	90.1	89.7	81.5	73.7	W	77.1
November	83.4	82.9	75.7	72.1	65.7	71.9	92.2	91.7	81.3	75.6	W	78.1
December	82.5	82.0	75.4	70.1	65.7	70.4	91.6	91.2	81.3	74.4	NA	77.4
1996	**81.2**	**80.7**	**77.0**	**67.2**	**62.2**	**68.5**	**90.1**	**89.6**	**82.4**	**70.9**	**NA**	**75.9**
1997												
January	83.1	82.6	77.2	71.7	68.1	72.3	92.4	92.0	82.6	75.7	W	78.8
February	82.7	82.1	77.7	69.2	66.0	70.5	92.0	91.6	83.0	73.1	W	77.5
March	80.8	80.3	77.0	66.9	64.9	68.8	90.3	89.9	82.4	71.0	NA	76.1
April	80.3	79.7	77.7	65.5	62.4	67.7	89.9	89.6	82.9	69.6	W	75.4
May	81.0	80.5	76.5	67.6	61.8	68.5	90.3	89.9	82.3	70.8	NA	75.7
June	79.7	79.2	74.9	63.9	58.8	65.5	89.1	88.7	80.8	67.2	W	72.9
July	77.9	77.4	72.3	63.9	57.9	64.8	87.4	86.9	78.4	67.5	W	72.0
August	83.2	82.8	79.2	71.5	66.1	72.3	92.6	92.3	85.4	75.3	W	79.5
September	83.6	83.1	81.2	67.2	63.5	69.5	93.2	92.8	87.4	71.0	W	77.9
October	80.9	80.3	78.2	63.3	59.8	65.8	90.5	90.1	84.1	67.3	W	74.2
November	78.1	77.6	75.1	60.6	56.0	63.1	87.7	87.4	80.9	64.6	W	71.5
December	74.1	73.5	70.7	56.3	53.3	58.9	83.9	83.6	76.7	60.6	W	67.3
1997	**80.4**	**79.8**	**76.4**	**65.6**	**61.6**	**67.3**	**89.8**	**89.5**	**82.2**	**69.4**	**71.1**	**74.9**
1998												
January	69.7	69.2	66.0	52.2	50.4	54.8	78.6	78.2	72.1	56.6	W	63.2
February	65.2	64.8	60.4	50.9	48.3	52.5	74.8	74.5	66.3	54.8	W	59.7
March	61.7	61.4	55.9	48.4	46.0	49.7	71.2	70.9	62.1	52.3	W	56.4
April	63.6	63.3	58.1	51.6	48.5	52.4	73.0	72.7	64.2	55.6	W	59.2
May	67.3	67.0	63.1	54.3	49.7	55.3	76.5	76.3	69.0	58.1	W	62.6
June	66.7	66.3	62.0	51.6	46.9	52.9	76.2	75.9	68.1	55.4	W	60.6
July	65.5	65.1	61.1	50.2	45.5	51.5	75.2	74.9	67.0	53.9	W	59.0
August	62.8	62.3	58.8	45.6	41.9	47.6	72.8	72.4	64.8	49.5	W	55.5
September	61.5	61.0	57.6	46.5	42.2	48.1	71.4	71.1	63.6	50.3	W	55.6

See footnotes at end of table.

Table 6. U.S. Refiner Motor Gasoline Prices by Grade and Sales Type

(Cents per Gallon Excluding Taxes) — Continued

Year Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average
1983	**108.0**	**105.7**	**–**	**–**	**–**	**96.4**	**96.4**	**95.4**	**–**	**–**	**–**	**88.2**
1984	**102.1**	**101.5**	**–**	**–**	**–**	**91.6**	**91.4**	**90.7**	**–**	**–**	**–**	**83.2**
1985	**103.0**	**102.3**	**–**	**–**	**–**	**92.2**	**92.1**	**91.2**	**–**	**–**	**–**	**83.5**
1986	**74.8**	**73.7**	**–**	**–**	**–**	**61.0**	**63.2**	**62.4**	**–**	**–**	**–**	**53.1**
1987	**79.0**	**78.4**	**–**	**–**	**–**	**67.1**	**67.8**	**66.9**	**–**	**–**	**–**	**58.9**
1988	**79.4**	**78.8**	**–**	**–**	**–**	**67.2**	**68.1**	**67.3**	**–**	**–**	**–**	**57.7**
1989	**87.4**	**86.8**	**–**	**–**	**–**	**74.9**	**76.3**	**75.6**	**–**	**–**	**–**	**65.4**
1990	**99.0**	**98.5**	**–**	**–**	**–**	**87.4**	**88.8**	**88.3**	**–**	**–**	**–**	**78.6**
1991	**91.2**	**90.7**	**–**	**–**	**–**	**79.2**	**80.0**	**79.7**	**–**	**–**	**–**	**69.9**
1992	**92.0**	**91.4**	**–**	**–**	**–**	**77.4**	**79.2**	**78.7**	**–**	**–**	**–**	**67.7**
1993	**89.6**	**88.9**	**–**	**–**	**–**	**72.2**	**76.5**	**75.9**	**–**	**–**	**–**	**62.6**
1994	**87.3**	**86.5**	**78.7**	**64.0**	**55.6**	**69.5**	**74.4**	**73.8**	**69.3**	**56.7**	**50.9**	**59.9**
1995	**89.7**	**89.0**	**82.2**	**67.3**	**58.3**	**72.2**	**77.1**	**76.5**	**72.9**	**59.8**	**54.0**	**62.6**
1996												
January	88.3	87.5	79.5	65.7	57.2	70.1	75.4	74.8	70.8	58.1	52.9	61.0
February	88.4	87.7	80.0	66.6	57.2	70.6	75.5	74.9	71.0	59.1	53.6	61.6
March	93.3	92.6	84.6	73.3	63.9	76.9	80.4	79.8	75.4	66.0	59.8	67.9
April	102.1	101.3	93.8	81.9	74.9	85.8	88.8	88.1	85.0	74.3	67.3	76.1
May	106.6	105.7	100.3	82.1	74.0	87.9	93.3	92.7	91.5	74.5	68.5	78.0
June	103.9	103.0	97.7	76.1	66.9	83.0	91.0	90.3	88.9	69.0	62.1	73.0
July	101.1	100.3	94.5	76.7	68.0	82.1	88.0	87.5	85.6	69.2	62.5	72.3
August	98.3	97.6	90.9	75.9	65.2	80.3	85.4	84.9	81.8	68.5	61.8	71.1
September	98.0	97.3	89.4	77.0	68.1	80.9	84.9	84.4	80.3	69.5	63.1	71.6
October	98.2	97.5	89.4	79.2	68.7	82.0	85.0	84.4	79.8	71.5	64.1	72.8
November	100.4	99.7	89.7	81.7	71.1	83.9	87.3	86.8	79.8	73.9	66.1	74.5
December	100.2	99.5	89.5	80.1	70.8	82.4	86.5	86.0	79.5	72.0	66.3	73.1
1996	**97.9**	**97.2**	**89.7**	**76.2**	**66.9**	**80.3**	**85.3**	**84.7**	**80.9**	**69.0**	**62.7**	**71.3**
1997												
January	100.9	100.2	90.8	81.4	72.5	84.2	87.2	86.6	81.0	73.5	68.4	74.8
February	100.4	99.7	90.8	78.6	69.3	82.7	86.7	86.1	81.4	71.0	66.2	73.1
March	98.5	97.8	90.1	76.3	68.3	80.7	84.9	84.3	80.8	68.7	65.3	71.5
April	97.9	97.5	90.1	75.0	66.5	79.7	84.4	83.9	81.3	67.4	62.9	70.4
May	97.9	97.3	89.1	76.8	67.7	80.4	85.0	84.5	80.3	69.4	62.3	71.1
June	96.8	96.1	87.8	73.1	64.9	77.4	83.8	83.3	78.8	65.6	59.6	68.3
July	95.5	94.8	85.8	73.5	63.6	77.1	82.0	81.5	76.4	65.8	58.4	67.5
August	100.8	100.3	92.8	81.3	73.8	84.5	87.2	86.8	83.2	73.3	66.9	75.0
September	101.5	101.2	94.4	76.7	68.9	82.0	87.6	87.2	85.1	68.9	64.0	72.3
October	98.4	97.7	90.8	72.7	64.1	77.8	84.9	84.3	81.9	65.1	60.3	68.6
November	95.6	94.9	87.8	69.6	59.0	74.8	82.2	81.6	78.8	62.3	56.4	65.9
December	92.0	91.4	83.8	65.5	56.8	70.9	78.3	77.8	74.6	58.1	53.8	61.7
1997	**97.9**	**97.3**	**89.4**	**74.9**	**65.7**	**79.2**	**84.4**	**83.9**	**80.3**	**67.4**	**62.0**	**70.0**
1998												
January	87.1	86.5	79.2	61.5	54.5	67.2	73.9	73.3	69.9	54.1	50.8	57.6
February	83.0	82.4	73.7	60.0	51.0	64.4	69.4	69.0	64.4	52.7	48.5	55.1
March	79.4	78.9	69.5	57.6	48.8	61.1	66.0	65.6	60.0	50.3	46.3	52.3
April	81.2	80.6	W	60.9	53.1	63.8	67.8	67.4	62.1	53.5	48.9	54.9
May	84.4	84.0	W	63.7	55.1	66.8	71.4	71.0	66.8	56.1	50.3	57.9
June	84.1	83.6	W	61.1	52.4	64.9	70.8	70.4	65.9	53.5	47.4	55.6
July	83.4	82.9	W	59.6	51.2	63.7	69.9	69.4	65.0	52.1	46.0	54.3
August	80.7	80.0	W	55.3	48.4	60.1	67.2	66.7	62.9	47.5	42.6	50.6
September	79.4	78.7	W	55.9	47.3	59.9	66.0	65.4	61.7	48.4	42.9	50.9

Dash (–) = No data reported.
NA = Not available.
W = Withheld to avoid disclosure of individual company data.
[a] Includes sales through retail outlets as well as all direct sales to end users that were not made through company-operated retail outlets, e.g., sales to agricultural customers, commercial sales, and industrial sales.
Notes: Data for the 4th quarter of 1993 were derived from two separate survey systems. The DTW, Rack, and Bulk components were derived from the revised EIA-782 survey system, while the End-Use and Average Resale categories were derived from the predecessor EIA-782 survey system. Therefore, the DTW, Rack, and Bulk components are not consistent with the Average Resale category. Beginning January 1994, all data are from the revised EIA-782 survey system and are consistent.
Notes: Motor gasoline averages and totals prior to October 1993 include leaded gasoline.
Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual.*
Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

Table 7. U.S. Refiner Motor Gasoline Volumes by Grade and Sales Type

(Million Gallons per Day)

Year Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total[a]	DTW	Rack	Bulk	Total	Through Retail Outlets	Total[a]	DTW	Rack	Bulk	Total
1983	**20.0**	**23.5**	**–**	**–**	**–**	**98.3**	**–**	**–**	**–**	**–**	**–**	**–**
1984	**24.3**	**27.8**	**–**	**–**	**–**	**106.8**	**–**	**–**	**–**	**–**	**–**	**–**
1985	**26.2**	**29.9**	**–**	**–**	**–**	**119.7**	**–**	**–**	**–**	**–**	**–**	**–**
1986	**30.9**	**34.7**	**–**	**–**	**–**	**127.0**	**–**	**–**	**–**	**–**	**–**	**–**
1987	**32.7**	**36.1**	**–**	**–**	**–**	**141.9**	**–**	**–**	**–**	**–**	**–**	**–**
1988	**34.2**	**37.3**	**–**	**–**	**–**	**153.6**	**–**	**–**	**–**	**–**	**–**	**–**
1989	**34.3**	**36.8**	**–**	**–**	**–**	**155.7**	**4.9**	**5.1**	**–**	**–**	**–**	**16.4**
1990	**36.7**	**38.8**	**–**	**–**	**–**	**174.5**	**7.4**	**7.6**	**–**	**–**	**–**	**23.1**
1991	**38.4**	**40.4**	**–**	**–**	**–**	**180.9**	**7.9**	**8.2**	**–**	**–**	**–**	**23.7**
1992	**36.5**	**38.4**	**–**	**–**	**–**	**182.2**	**8.9**	**9.2**	**–**	**–**	**–**	**27.5**
1993	**35.6**	**37.2**	**–**	**–**	**–**	**184.0**	**8.7**	**8.9**	**–**	**–**	**–**	**27.7**
1994	**34.3**	**35.9**	**47.7**	**120.3**	**24.3**	**192.3**	**8.5**	**8.7**	**12.8**	**15.7**	**0.2**	**28.7**
1995	**34.3**	**35.9**	**43.8**	**126.2**	**31.8**	**201.8**	**9.6**	**9.8**	**13.3**	**17.2**	**0.1**	**30.6**
1996												
January	32.2	33.7	41.0	115.8	25.9	182.7	9.5	9.8	12.9	16.0	–	28.9
February	33.1	34.7	42.8	121.9	32.1	196.8	9.7	10.0	13.6	16.9	–	30.5
March	35.0	36.7	45.1	122.5	28.8	196.4	10.0	10.3	13.7	17.0	W	30.7
April	36.6	38.7	46.9	132.1	39.8	218.8	9.6	9.9	13.4	17.0	–	30.4
May	38.5	40.3	48.7	137.8	38.8	225.2	9.2	9.5	12.6	16.5	–	29.2
June	39.3	41.0	48.1	137.3	43.1	228.6	9.6	9.8	12.6	16.6	–	29.3
July	38.6	40.4	47.3	141.2	40.8	229.4	9.5	9.8	12.6	17.4	–	29.9
August	38.8	40.7	48.0	141.8	35.2	225.0	9.6	10.0	12.7	17.3	NA	30.1
September	37.9	39.6	46.6	131.4	31.5	209.5	9.4	9.6	12.4	15.9	W	28.4
October	38.3	40.2	48.0	134.8	32.0	214.8	9.4	9.7	12.7	16.4	W	29.1
November	38.3	40.2	48.2	133.6	33.9	215.7	9.4	9.7	12.8	16.3	W	29.2
December	39.1	41.1	47.1	132.0	40.2	219.4	9.6	9.8	12.6	16.0	NA	28.7
1996	**37.2**	**38.9**	**46.5**	**131.9**	**35.2**	**213.6**	**9.5**	**9.8**	**12.9**	**16.6**	**NA**	**29.5**
1997												
January	36.0	38.0	45.9	123.3	35.5	204.6	8.8	9.1	W	15.0	W	26.9
February	38.4	40.5	48.0	128.4	39.1	215.4	9.2	9.5	W	15.5	W	28.0
March	39.1	41.2	48.0	130.7	35.8	214.5	9.4	9.7	12.4	15.6	0.0	28.0
April	38.5	40.7	47.7	134.5	34.0	216.2	9.3	9.6	W	16.1	W	28.3
May	38.2	40.0	45.9	138.2	38.1	222.2	9.2	9.5	12.2	16.4	0.0	28.6
June	39.4	41.1	46.1	140.2	30.8	217.1	9.5	9.8	W	16.7	W	29.0
July	43.3	45.0	45.7	146.8	32.5	224.9	10.4	10.7	W	17.9	W	30.3
August	43.5	45.2	46.3	144.4	33.8	224.6	10.3	10.6	W	17.2	W	29.4
September	42.9	44.6	45.1	137.4	33.9	216.4	10.0	10.2	W	16.2	W	27.8
October	43.2	45.1	45.8	139.9	36.2	221.9	10.1	10.4	W	16.7	W	28.5
November	41.8	43.3	46.3	132.0	32.2	210.5	9.8	10.0	W	15.7	W	27.4
December	44.1	45.7	46.8	135.8	37.0	219.6	10.6	10.7	W	16.5	W	28.3
1997	**40.7**	**42.6**	**46.4**	**136.0**	**34.9**	**217.4**	**9.7**	**10.0**	**12.1**	**16.3**	**0.0**	**28.4**
1998												
January	39.4	40.8	44.2	124.9	38.5	207.5	9.9	10.1	W	14.8	W	25.8
February	41.6	43.0	45.9	129.3	37.1	212.2	9.7	9.9	W	15.2	W	26.4
March	42.8	44.3	47.1	132.1	34.6	213.8	9.9	10.1	W	15.8	W	27.1
April	43.2	44.7	47.9	138.1	45.0	231.0	10.0	10.2	W	16.0	W	27.3
May	43.8	45.3	48.7	139.2	42.7	230.6	10.3	10.5	W	16.0	W	27.6
June	44.6	46.0	49.4	147.1	43.8	240.2	10.5	10.7	W	17.1	W	28.8
July	44.7	46.1	45.5	150.6	41.3	237.4	10.7	10.8	W	17.7	W	29.0
August	44.1	45.6	44.7	144.3	35.9	225.0	10.6	10.7	W	16.9	W	28.1
September	42.8	44.3	43.8	140.8	32.6	217.3	10.4	10.6	W	16.4	W	27.3

See footnotes at end of table.

Table 7. U.S. Refiner Motor Gasoline Volumes by Grade and Sales Type

(Million Gallons per Day) — Continued

Year Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total[a]	DTW	Rack	Bulk	Total	Through Retail Outlets	Total[a]	DTW	Rack	Bulk	Total
1983	**5.0**	**6.2**	**–**	**–**	**–**	**28.7**	**42.3**	**51.1**	**–**	**–**	**–**	**242.5**
1984	**8.5**	**9.2**	**–**	**–**	**–**	**33.7**	**50.3**	**57.6**	**–**	**–**	**–**	**246.3**
1985	**9.2**	**10.0**	**–**	**–**	**–**	**38.0**	**50.5**	**57.5**	**–**	**–**	**–**	**256.9**
1986	**9.0**	**9.8**	**–**	**–**	**–**	**45.1**	**54.2**	**61.2**	**–**	**–**	**–**	**257.2**
1987	**11.2**	**11.6**	**–**	**–**	**–**	**53.0**	**55.7**	**61.0**	**–**	**–**	**–**	**257.2**
1988	**13.8**	**14.5**	**–**	**–**	**–**	**62.4**	**56.7**	**61.0**	**–**	**–**	**–**	**263.7**
1989	**13.5**	**14.2**	**–**	**–**	**–**	**60.8**	**57.5**	**61.2**	**–**	**–**	**–**	**260.7**
1990	**11.2**	**11.7**	**–**	**–**	**–**	**53.7**	**57.4**	**60.3**	**–**	**–**	**–**	**264.8**
1991	**10.5**	**10.9**	**–**	**–**	**–**	**48.3**	**58.4**	**61.2**	**–**	**–**	**–**	**261.3**
1992	**10.3**	**10.7**	**–**	**–**	**–**	**51.7**	**56.4**	**59.0**	**–**	**–**	**–**	**265.4**
1993	**10.3**	**10.6**	**–**	**–**	**–**	**52.8**	**54.9**	**57.2**	**–**	**–**	**–**	**266.9**
1994	**10.0**	**10.3**	**22.6**	**29.9**	**3.2**	**55.7**	**52.8**	**55.0**	**83.1**	**165.9**	**27.7**	**276.7**
1995	**9.8**	**10.2**	**20.8**	**31.5**	**4.2**	**56.4**	**53.7**	**55.9**	**77.9**	**174.8**	**36.0**	**288.8**
1996												
January	9.2	9.5	19.4	29.3	4.2	52.9	50.9	53.0	73.3	161.0	30.1	264.5
February	9.5	9.8	20.4	30.6	5.1	56.1	52.3	54.6	76.8	169.4	37.2	283.4
March	9.1	9.4	19.9	29.6	3.6	53.2	54.1	56.4	78.7	169.1	32.5	280.3
April	8.3	8.6	18.5	28.4	3.6	50.5	54.5	57.2	78.7	177.5	43.4	299.7
May	7.6	8.0	16.6	26.6	3.7	47.0	55.4	57.8	77.9	181.0	42.5	301.4
June	8.1	8.4	17.3	27.6	4.1	49.0	56.9	59.2	78.1	181.5	47.2	306.8
July	8.3	8.7	17.4	29.9	3.8	51.1	56.4	58.9	77.4	188.4	44.6	310.4
August	8.6	9.0	18.0	30.0	3.8	51.8	57.1	59.7	78.8	189.0	39.1	306.9
September	8.2	8.6	17.6	27.1	3.7	48.5	55.5	57.8	76.6	174.5	35.3	286.4
October	8.2	8.5	17.8	27.7	4.2	49.8	55.9	58.5	78.5	178.9	36.2	293.7
November	7.9	8.2	17.7	26.6	3.3	47.6	55.6	58.1	78.8	176.5	37.2	292.6
December	8.0	8.3	17.2	26.2	5.5	48.9	56.7	59.2	76.9	174.2	45.8	297.0
1996	**8.4**	**8.8**	**18.2**	**28.3**	**4.1**	**50.5**	**55.1**	**57.5**	**77.5**	**176.8**	**39.3**	**293.6**
1997												
January	7.4	7.8	W	24.6	W	44.2	52.2	54.8	74.2	162.8	38.7	275.8
February	7.7	8.1	W	25.3	W	45.0	55.3	58.0	77.5	169.2	41.7	288.4
March	8.1	8.4	17.4	26.1	3.8	47.4	56.6	59.3	77.7	172.4	39.7	289.8
April	8.1	8.5	W	27.5	W	48.7	55.8	58.9	77.1	178.1	37.9	293.1
May	8.2	8.6	17.2	28.7	3.6	49.5	55.5	58.2	75.3	183.3	41.8	300.3
June	8.6	9.0	W	29.0	W	50.8	57.5	60.0	75.8	185.9	35.2	296.9
July	9.3	9.8	W	31.1	W	51.5	63.0	65.4	75.4	195.8	35.6	306.7
August	8.7	9.2	W	29.3	W	50.0	62.5	64.9	75.2	190.9	37.9	304.0
September	8.4	8.9	W	27.2	W	46.6	61.3	63.8	72.5	180.7	37.7	290.8
October	8.7	9.0	W	28.1	W	49.1	62.0	64.5	73.8	184.7	41.0	299.6
November	8.6	8.9	W	26.8	W	48.4	60.3	62.3	74.7	174.4	37.1	286.2
December	9.4	9.6	W	28.5	W	50.5	64.0	66.0	75.7	180.8	41.9	298.4
1997	**8.4**	**8.8**	**16.9**	**27.7**	**3.9**	**48.5**	**58.9**	**61.4**	**75.4**	**180.0**	**38.8**	**294.3**
1998												
January	8.8	9.0	W	26.5	W	46.3	58.1	59.9	71.4	166.2	42.0	279.7
February	9.2	9.4	W	27.2	W	47.2	60.5	62.3	74.3	171.7	39.9	285.9
March	9.7	9.9	W	28.6	W	50.2	62.4	64.3	76.2	176.5	38.4	291.1
April	9.5	9.8	W	29.5	W	52.2	62.8	64.7	76.9	183.6	50.1	310.5
May	9.6	9.9	W	30.2	W	53.0	63.8	65.6	77.9	185.4	47.8	311.1
June	9.8	10.1	W	31.8	W	54.9	64.9	66.8	79.4	195.9	48.6	323.9
July	10.1	10.4	W	33.9	W	55.5	65.5	67.3	74.6	202.2	45.1	321.9
August	10.2	10.5	W	33.0	W	55.3	64.8	66.9	73.8	194.2	40.4	308.4
September	10.0	10.3	W	32.1	W	54.5	63.1	65.2	72.3	189.4	37.5	299.1

Dash (–) = No data reported.
NA = Not available.
W = Withheld to avoid disclosure of individual company data.

Notes: Data for the 4th quarter of 1993 were derived from two separate survey systems. The DTW, Rack, and Bulk components were derived from the revised EIA-782 survey system, while the End-Use and Average Resale categories were derived from the predecessor EIA-782 survey system. Therefore, the DTW, Rack, and Bulk components are not consistent with the Average Resale category. Beginning January 1994, all data are from the revised EIA-782 survey system and are consistent.

Notes: Motor gasoline averages and totals prior to October 1993 include leaded gasoline.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual.* Totals may not equal the sum of the components due to rounding.

[a] Includes sales through retail outlets as well as all direct sales to end users that were not made through company-operated retail outlets, e.g., sales to agricultural customers, commercial sales, and industrial sales.

Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

Table 8. U.S. Refiner Conventional Motor Gasoline Prices by Grade and Sales Type

(Cents per Gallon Excluding Taxes)

Year Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average
1994	**68.7**	**68.1**	**63.6**	**54.5**	**50.0**	**55.8**	**78.4**	**77.8**	**69.4**	**NA**	**NA**	**62.7**
1995	**71.0**	**70.4**	**65.1**	**57.0**	**52.5**	**57.3**	**80.0**	**79.4**	**71.1**	**61.0**	**NA**	**63.7**
1996												
January	68.4	67.8	61.8	54.9	51.4	55.0	77.5	76.9	68.0	59.1	–	61.2
February	68.5	67.9	63.4	56.2	52.1	56.4	77.9	77.3	69.7	60.2	–	62.9
March	74.7	74.1	69.1	63.5	57.8	63.5	83.7	83.2	75.4	67.3	W	69.7
April	82.9	82.2	77.5	71.5	64.0	70.8	92.0	91.4	83.8	75.7	–	77.9
May	86.2	85.7	82.1	71.8	65.3	71.9	95.5	95.0	87.7	75.8	–	78.8
June	83.6	83.0	79.0	66.6	60.0	66.6	92.6	92.0	84.8	69.3	–	73.2
July	81.2	80.7	76.4	66.6	60.1	66.5	90.3	89.8	82.3	70.1	–	73.1
August	79.3	78.8	74.3	66.1	60.0	66.1	88.4	87.9	80.6	69.6	W	72.2
September	79.9	79.4	74.7	67.1	60.9	67.1	88.7	88.2	81.0	70.7	–	73.3
October	79.9	79.4	75.7	69.3	62.6	68.9	89.1	88.5	82.3	73.2	–	75.4
November	83.8	83.2	78.2	71.9	65.8	71.6	92.1	91.6	84.2	75.2	–	77.3
December	82.8	82.2	76.3	69.5	64.6	69.2	91.5	90.9	83.0	73.7	W	75.8
1996	**79.7**	**79.1**	**74.3**	**66.5**	**60.7**	**66.4**	**88.4**	**87.8**	**80.1**	**70.0**	**NA**	**72.6**
1997												
January	82.3	81.7	76.2	71.0	66.5	70.7	91.3	90.8	82.4	74.9	–	76.7
February	80.8	80.1	74.8	68.6	64.5	68.4	90.1	89.6	81.2	72.3	–	74.5
March	78.6	77.9	72.3	66.1	62.7	66.2	88.4	87.9	78.6	70.1	W	72.2
April	78.7	77.9	73.1	65.0	60.7	65.2	88.3	87.8	78.8	69.0	–	71.4
May	79.7	79.0	73.4	67.4	61.4	66.9	88.7	88.3	79.1	70.3	–	72.5
June	78.5	78.0	72.1	63.7	59.0	64.0	87.7	87.3	78.5	66.8	–	69.6
July	76.7	76.2	69.6	63.7	57.4	63.4	85.8	85.4	76.1	67.1	–	69.1
August	82.1	81.5	75.8	70.8	63.9	70.3	91.1	90.7	81.9	74.4	–	76.1
September	80.5	80.0	74.4	66.1	60.8	66.1	89.8	89.4	81.1	69.6	–	72.2
October	77.0	76.3	70.2	62.1	57.0	62.1	86.5	86.1	76.7	65.8	–	68.2
November	73.9	73.4	66.9	59.3	54.8	59.3	83.2	82.8	73.6	63.1	–	65.4
December	69.5	68.9	62.3	55.0	51.7	55.1	78.8	78.5	69.3	59.1	–	61.3
1997	**78.1**	**77.5**	**71.8**	**64.9**	**60.1**	**64.8**	**87.4**	**87.0**	**78.2**	**68.5**	**W**	**70.7**
1998												
January	65.9	65.3	58.0	50.9	49.1	51.2	74.3	73.8	65.4	55.2	–	57.5
February	63.1	62.7	55.6	49.9	47.2	49.9	72.2	71.7	62.1	53.7	–	55.6
March	60.8	60.4	52.9	47.7	45.1	47.8	69.9	69.5	59.7	51.5	–	53.3
April	62.4	62.1	55.0	50.9	47.0	50.5	71.7	71.3	61.4	54.7	–	56.2
May	65.3	64.9	58.3	53.5	48.6	53.0	74.3	74.0	64.3	57.1	–	58.8
June	64.8	64.4	57.3	51.0	46.2	50.7	74.1	73.8	63.7	54.5	W	56.6
July	63.7	63.2	57.1	49.7	44.8	49.4	73.0	72.7	63.2	53.0	–	55.1
August	60.3	59.8	54.7	44.9	40.7	45.0	70.0	69.6	60.8	48.4	–	51.0
September	59.0	58.5	53.3	45.7	40.7	45.6	68.6	68.2	59.5	49.3	–	51.4

See footnotes at end of table.

Table 8. U.S. Refiner Conventional Motor Gasoline Prices by Grade and Sales Type

(Cents per Gallon Excluding Taxes) — Continued

Year Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average
1994	**86.3**	**85.5**	**77.8**	**63.8**	**55.5**	**68.2**	**73.6**	**72.9**	**68.3**	**56.5**	**50.7**	**58.9**
1995	**87.7**	**86.8**	**79.0**	**66.5**	**56.8**	**68.4**	**75.3**	**74.6**	**69.3**	**59.0**	**53.0**	**59.8**
1996												
January	85.5	84.6	75.3	64.6	55.6	65.6	72.9	72.2	66.2	57.0	52.0	57.5
February	85.9	84.9	77.3	65.8	55.4	67.1	73.1	72.4	67.8	58.2	52.5	58.9
March	92.0	91.1	82.8	72.9	61.0	74.3	79.0	78.3	73.2	65.5	58.1	65.9
April	100.1	99.2	90.0	81.0	71.1	82.1	86.8	86.0	81.0	73.3	64.4	73.1
May	103.3	102.4	94.7	81.1	71.0	83.0	89.9	89.3	85.4	73.5	65.7	74.0
June	100.3	99.3	92.0	75.3	64.4	77.8	87.2	86.6	82.4	68.1	60.2	68.7
July	98.1	97.2	89.4	75.9	65.9	77.7	85.0	84.4	79.9	68.4	60.4	68.7
August	96.2	95.3	87.6	75.2	62.7	76.5	83.1	82.5	77.9	67.8	60.2	68.2
September	96.9	95.9	88.2	76.4	65.8	78.0	83.6	83.1	78.4	68.9	61.3	69.2
October	96.7	95.8	89.3	78.7	67.4	79.5	83.7	83.1	79.4	71.0	63.1	71.0
November	100.2	99.2	91.4	81.3	71.3	82.4	87.2	86.6	81.8	73.6	66.2	73.6
December	99.9	98.9	90.4	79.3	69.1	79.8	86.5	85.7	80.2	71.3	65.1	71.3
1996	**96.0**	**95.1**	**86.9**	**75.5**	**64.5**	**76.7**	**83.4**	**82.7**	**77.8**	**68.2**	**61.0**	**68.5**
1997												
January	99.7	98.6	90.0	80.7	69.9	81.5	86.1	85.3	80.0	72.8	66.7	72.7
February	98.3	97.4	88.7	78.0	67.6	79.2	84.6	83.9	78.6	70.3	64.7	70.4
March	96.3	95.5	86.3	75.7	66.3	76.8	82.5	81.8	76.1	67.9	63.0	68.2
April	96.4	95.5	86.4	74.5	64.9	75.8	82.6	81.8	76.6	66.8	61.1	67.3
May	96.6	95.7	86.3	76.5	66.0	77.5	83.4	82.8	76.9	69.0	61.7	68.9
June	95.4	94.6	85.5	72.8	64.8	74.3	82.4	81.7	75.8	65.4	59.6	66.0
July	93.9	93.2	83.5	73.2	63.0	74.4	80.5	79.9	73.4	65.5	57.8	65.5
August	99.2	98.3	89.3	80.4	71.4	81.1	85.7	85.2	79.4	72.6	64.6	72.4
September	98.2	97.5	88.4	75.5	65.9	76.8	84.3	83.7	78.1	67.8	61.2	68.1
October	94.5	93.6	84.0	71.6	61.5	72.7	80.8	80.2	73.9	63.9	57.4	64.1
November	91.2	90.4	81.0	68.4	56.3	69.3	77.8	77.2	70.8	61.0	55.0	61.3
December	87.2	86.4	76.6	64.3	54.6	65.3	73.5	72.9	66.3	56.8	52.0	57.1
1997	**95.4**	**94.6**	**85.5**	**74.2**	**64.0**	**75.3**	**81.9**	**81.3**	**75.6**	**66.6**	**60.4**	**66.8**
1998												
January	83.0	82.2	72.7	60.4	52.7	61.7	69.8	69.1	62.2	52.8	49.4	53.3
February	80.4	79.6	69.1	59.2	49.5	60.3	67.1	66.5	59.4	51.7	47.4	51.9
March	78.0	77.3	66.4	56.9	47.0	57.9	64.8	64.3	56.7	49.5	45.2	49.8
April	79.7	79.1	68.2	60.4	50.2	60.6	66.4	66.0	58.6	52.7	47.3	52.4
May	82.2	81.6	71.0	63.1	53.7	63.5	69.1	68.7	61.8	55.3	49.0	55.1
June	82.0	81.3	W	60.6	51.7	61.2	68.8	68.3	60.9	52.9	46.7	52.8
July	80.8	80.2	70.2	59.2	50.9	60.2	67.7	67.2	60.9	51.5	45.3	51.6
August	77.8	76.9	67.9	54.7	47.8	56.0	64.5	63.9	58.5	46.8	41.4	47.3
September	76.5	75.5	66.5	55.3	45.9	56.1	63.2	62.6	57.2	47.6	41.3	47.8

Dash (–) = No data reported.
NA = Not available.
W = Withheld to avoid disclosure of individual company data.
[a] Includes sales through retail outlets as well as all direct sales to end users that were not made through company-operated retail outlets, e.g., sales to agricultural customers, commercial sales, and industrial sales.
Notes: The 4th quarter of 1993 was a transitional period between the predecessor EIA-782 survey system and the revised EIA-782 survey sytem. The revised survey system contains additional product and sales categories, which may not be consistent with categories derived from the predecessor survey system. Beginning January 1994 all data are from the revised survey system and are consistent.
Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual.*
Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

Table 9. U.S. Refiner Conventional Motor Gasoline Volumes by Grade and Sales Type

(Million Gallons per Day)

Year Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total[a]	DTW	Rack	Bulk	Total	Through Retail Outlets	Total[a]	DTW	Rack	Bulk	Total
1994	**29.7**	**31.2**	**36.1**	**113.5**	**22.8**	**172.4**	**7.6**	**7.8**	**10.1**	**14.6**	**0.1**	**24.8**
1995	**24.0**	**25.3**	**19.4**	**105.1**	**26.0**	**150.5**	**6.0**	**6.3**	**5.1**	**13.6**	**0.1**	**18.7**
1996												
January	19.2	20.3	13.1	92.5	21.3	126.9	5.1	5.2	3.7	12.0	–	15.7
February	21.2	22.5	18.3	100.4	26.2	144.9	5.7	5.9	5.3	13.3	–	18.5
March	24.5	25.9	21.5	103.3	23.2	148.1	6.4	6.6	5.8	13.8	W	19.6
April	25.7	27.3	20.4	110.7	31.9	163.0	6.2	6.4	5.1	13.5	–	18.6
May	26.3	27.6	19.0	114.2	27.7	160.8	5.8	6.0	4.3	12.9	–	17.2
June	26.5	27.7	18.7	112.9	34.2	165.9	6.0	6.2	4.3	12.9	–	17.2
July	26.1	27.4	18.8	117.7	31.7	168.1	6.0	6.2	4.4	13.6	–	17.9
August	26.4	27.7	18.9	117.5	25.1	161.4	6.1	6.3	4.4	13.4	W	17.9
September	25.2	26.5	17.7	108.3	22.9	148.9	5.8	6.0	4.2	12.4	–	16.6
October	23.8	25.1	16.4	110.4	25.0	151.9	5.5	5.7	3.9	12.7	–	16.6
November	22.2	23.5	16.0	107.6	25.5	149.1	5.1	5.3	3.9	12.5	–	16.4
December	22.1	23.4	15.2	105.5	30.6	151.3	5.0	5.2	3.7	12.1	W	15.9
1996	**24.1**	**25.4**	**17.8**	**108.5**	**27.1**	**153.4**	**5.7**	**5.9**	**4.4**	**12.9**	**NA**	**17.3**
1997												
January	20.6	22.0	14.7	98.2	27.1	140.0	4.7	4.9	3.6	11.4	–	15.0
February	22.2	23.7	15.5	103.1	31.3	150.0	5.0	5.2	3.8	11.9	–	15.7
March	24.1	25.6	16.7	106.6	27.7	151.0	5.6	5.7	3.9	W	W	16.1
April	25.1	26.9	18.2	111.8	27.0	157.0	5.8	5.9	4.2	12.9	–	17.0
May	24.7	26.1	17.6	114.4	29.6	161.6	5.7	5.9	4.1	13.0	–	17.2
June	25.6	27.0	17.6	116.3	23.4	157.4	5.9	6.1	4.2	13.3	–	17.4
July	28.2	29.5	17.3	122.1	25.2	164.6	6.4	6.6	4.1	14.3	–	18.4
August	27.3	28.7	17.2	119.1	25.0	161.3	6.2	6.4	4.0	13.5	–	17.5
September	26.5	27.9	16.1	112.6	26.2	155.0	6.0	6.2	3.7	12.7	–	16.4
October	26.2	27.6	15.8	113.2	27.0	156.0	6.0	6.2	3.7	12.9	–	16.5
November	24.3	25.5	14.7	104.9	25.4	145.1	5.5	5.7	3.5	11.9	–	15.4
December	25.1	26.4	14.8	107.7	28.3	150.8	5.8	6.0	3.5	12.6	–	16.1
1997	**25.0**	**26.4**	**16.3**	**110.9**	**26.9**	**154.2**	**5.7**	**5.9**	**3.9**	**12.7**	**W**	**16.6**
1998												
January	22.8	24.0	14.0	98.7	30.2	142.9	5.5	5.7	3.3	11.2	–	14.4
February	24.4	25.5	14.8	102.4	29.7	146.9	5.5	5.7	3.4	11.4	–	14.8
March	25.9	27.1	15.6	106.5	27.8	149.9	6.0	6.1	3.5	12.2	–	15.7
April	26.5	27.7	16.7	112.4	36.4	165.4	6.1	6.2	3.6	12.4	–	16.0
May	27.3	28.5	17.4	112.9	33.0	163.2	6.3	6.4	3.8	12.4	–	16.2
June	27.6	28.8	17.7	119.6	35.5	172.8	6.4	6.5	W	13.2	W	17.0
July	27.4	28.6	14.4	123.3	30.7	168.4	6.4	6.5	3.5	13.6	–	17.2
August	27.2	28.4	14.0	117.2	28.1	159.3	6.3	6.5	3.5	13.0	–	16.5
September	25.8	27.0	13.2	114.1	23.3	150.6	6.1	6.3	3.2	12.6	–	15.8

See footnotes at end of table.

Table 9. U.S. Refiner Conventional Motor Gasoline Volumes by Grade and Sales Type

(Million Gallons per Day) — Continued

Year Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total[a]	DTW	Rack	Bulk	Total	Through Retail Outlets	Total[a]	DTW	Rack	Bulk	Total
1994	**8.5**	**8.9**	**16.5**	**28.0**	**2.8**	**47.2**	**45.8**	**47.9**	**62.7**	**156.0**	**25.8**	**244.5**
1995	**6.2**	**6.4**	**7.7**	**25.1**	**2.9**	**35.6**	**36.2**	**38.0**	**32.1**	**143.8**	**28.9**	**204.8**
1996												
January	5.0	5.2	5.6	22.8	3.0	31.4	29.2	30.8	22.4	127.3	24.3	174.0
February	5.5	5.7	7.5	24.4	3.8	35.7	32.3	34.1	31.1	138.1	30.0	199.1
March	5.6	5.9	7.8	24.0	2.4	34.1	36.5	38.4	35.1	141.1	25.6	201.8
April	5.1	5.3	6.2	22.8	2.1	31.1	36.9	39.0	31.7	147.0	34.0	212.7
May	4.7	4.9	5.5	21.3	2.0	28.7	36.8	38.5	28.7	148.3	29.6	206.7
June	5.0	5.2	5.6	21.9	1.8	29.3	37.5	39.1	28.6	147.7	36.0	212.3
July	5.1	5.4	5.8	24.0	2.1	31.9	37.2	38.9	28.9	155.3	33.8	218.0
August	5.3	5.6	5.8	23.9	2.3	32.1	37.9	39.6	29.1	154.9	27.5	211.4
September	4.9	5.1	5.5	21.6	1.8	29.0	36.0	37.6	27.4	142.4	24.7	194.5
October	4.5	4.8	5.1	21.9	2.8	29.9	33.8	35.5	25.5	145.0	27.9	198.4
November	4.1	4.3	5.0	20.7	1.9	27.6	31.3	33.0	24.8	140.8	27.5	193.0
December	4.0	4.3	4.8	20.3	3.9	29.0	31.2	32.9	23.7	138.0	34.6	196.2
1996	**4.9**	**5.1**	**5.8**	**22.5**	**2.5**	**30.8**	**34.7**	**36.5**	**28.1**	**143.8**	**29.6**	**201.5**
1997												
January	3.9	4.1	4.7	19.1	2.2	25.9	29.2	31.0	23.0	128.7	29.3	180.9
February	4.1	4.4	4.9	19.9	1.9	26.6	31.4	33.3	24.1	135.0	33.2	192.3
March	4.6	4.8	5.2	W	W	28.3	34.2	36.1	25.8	139.6	30.1	195.5
April	4.8	5.0	5.5	22.1	2.5	30.1	35.7	37.9	27.9	146.7	29.5	204.1
May	4.8	5.1	5.6	22.9	2.2	30.6	35.2	37.1	27.3	150.3	31.8	209.4
June	5.1	5.3	5.5	23.2	2.8	31.5	36.6	38.3	27.3	152.8	26.2	206.3
July	5.5	5.7	5.4	25.0	1.7	32.2	40.1	41.7	26.9	161.4	27.0	215.2
August	5.0	5.2	5.2	23.4	2.6	31.2	38.5	40.3	26.4	156.0	27.6	210.0
September	4.8	5.0	4.8	21.6	2.5	29.0	37.3	39.1	24.7	147.0	28.8	200.4
October	4.9	5.2	4.8	22.2	2.8	29.9	37.1	38.9	24.3	148.3	29.8	202.3
November	4.7	5.0	4.7	20.9	2.7	28.3	34.6	36.1	22.9	137.7	28.1	188.7
December	5.1	5.3	4.8	22.3	3.0	30.1	36.0	37.7	23.1	142.6	31.3	197.0
1997	**4.8**	**5.0**	**5.1**	**22.0**	**2.4**	**29.5**	**35.5**	**37.3**	**25.3**	**145.6**	**29.4**	**200.2**
1998												
January	4.8	5.0	4.6	20.7	2.5	27.7	33.2	34.7	21.8	130.6	32.7	185.1
February	5.1	5.3	4.8	21.2	1.7	27.7	35.0	36.5	23.0	135.1	31.4	189.5
March	5.6	5.8	5.1	22.7	2.0	29.8	37.5	39.0	24.2	141.4	29.8	195.3
April	5.5	5.8	5.3	23.5	3.2	32.0	38.1	39.7	25.5	148.3	39.5	213.4
May	5.6	5.8	5.4	24.1	3.2	32.6	39.2	40.7	26.5	149.4	36.2	212.0
June	5.7	5.9	W	25.4	W	34.5	39.7	41.2	27.1	158.2	39.1	224.3
July	5.8	6.0	5.0	27.1	2.6	34.7	39.6	41.1	22.9	164.1	33.3	220.3
August	5.9	6.2	5.0	26.2	2.9	34.1	39.5	41.1	22.4	156.4	31.0	209.8
September	5.7	6.0	4.7	25.5	2.6	32.8	37.6	39.2	21.1	152.2	25.9	199.2

Dash (–) = No data reported.
NA = Not available.
W = Withheld to avoid disclosure of individual company data.
[a] Includes sales through retail outlets as well as all direct sales to end users that were not made through company-operated retail outlets, e.g., sales to agricultural customers, commercial sales, and industrial sales.

Notes: The 4th quarter of 1993 was a transitional period between the predecessor EIA-782 survey system and the revised EIA-782 survey sytem. The revised survey system contains additional product and sales categories, which may not be consistent with categories derived from the predecessor survey system. Beginning January 1994 all data are from the revised survey system and are consistent.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual.* Totals may not equal the sum of the components due to rounding.

Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

Table 10. U.S. Refiner Oxygenated Motor Gasoline Prices by Grade and Sales Type

(Cents per Gallon Excluding Taxes)

Year Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average
1994	**74.3**	**73.9**	**66.7**	**58.6**	**52.7**	**63.2**	**84.3**	**83.8**	**72.7**	**62.2**	**W**	**69.6**
1995	**76.7**	**76.5**	**70.9**	**63.0**	**59.2**	**66.5**	**83.4**	**83.3**	**75.0**	**65.9**	**–**	**71.3**
1996												
January	76.3	76.0	70.4	61.4	W	65.6	84.0	83.8	76.0	64.8	–	72.0
February	77.6	77.4	72.3	64.4	–	68.2	85.7	85.7	78.4	67.4	–	74.2
March	84.7	84.4	79.5	72.2	W	75.8	90.8	90.8	85.3	74.5	–	81.4
April	94.0	93.6	87.2	76.1	–	80.0	101.6	101.6	93.6	77.3	–	86.2
May	99.1	98.6	94.3	76.1	–	82.3	108.1	107.9	99.8	77.3	–	88.1
June	97.9	97.5	NA	76.5	–	82.3	105.7	105.7	98.3	77.4	–	87.6
July	95.8	95.4	NA	75.0	–	80.6	103.7	103.6	96.5	76.0	–	85.9
August	97.2	96.8	NA	78.1	–	83.2	104.3	104.3	NA	79.8	–	87.9
September	97.8	97.3	88.4	79.7	–	83.2	104.5	104.4	94.1	82.5	–	88.4
October	93.4	93.1	85.4	78.4	–	82.0	102.0	101.9	90.9	82.3	–	87.8
November	91.7	91.5	80.8	78.0	–	79.3	102.1	102.0	86.3	81.3	–	84.0
December	88.1	87.9	77.0	75.3	–	76.1	99.2	99.2	82.6	78.6	–	80.8
1996	**87.0**	**86.7**	**78.4**	**71.8**	**W**	**74.6**	**94.0**	**93.9**	**83.2**	**73.8**	**–**	**79.3**
1997												
January	89.4	89.2	82.3	77.2	–	79.7	100.2	100.2	87.4	80.3	–	84.1
February	92.4	92.2	87.5	77.5	–	82.5	101.8	101.7	92.0	80.5	–	86.8
March	95.1	94.8	89.0	75.3	–	83.0	103.0	103.0	93.9	76.7	–	88.2
April	88.7	88.4	82.1	69.4	–	72.3	95.6	95.6	85.9	70.3	–	75.8
May	89.3	89.2	82.5	75.4	–	78.0	96.8	96.8	89.1	76.2	–	82.1
June	88.0	87.8	80.1	71.6	–	74.7	95.9	95.9	85.4	72.9	–	78.0
July	85.0	84.9	75.1	71.1	–	72.5	93.2	93.2	81.5	72.9	–	76.4
August	87.6	87.5	79.9	77.7	–	78.4	96.3	96.3	85.4	79.5	–	81.8
September	91.5	91.3	85.4	75.0	–	78.6	100.0	100.0	89.8	78.7	–	82.9
October	90.2	89.9	84.6	71.8	–	76.1	98.8	98.8	89.2	74.6	–	79.7
November	87.7	87.5	81.7	70.1	–	74.2	97.8	97.8	86.5	73.2	–	78.6
December	83.5	83.4	76.5	64.7	–	68.8	94.7	94.7	82.0	68.0	–	74.0
1997	**89.2**	**89.0**	**83.0**	**72.4**	**–**	**76.7**	**98.4**	**98.4**	**87.8**	**75.0**	**–**	**80.8**
1998												
January	78.4	78.3	71.3	59.2	–	63.4	89.1	89.1	76.9	61.0	–	66.9
February	70.8	70.7	64.1	57.7	–	60.0	81.0	81.0	70.4	59.7	–	63.6
March	65.7	65.6	56.3	55.8	–	56.0	75.8	75.8	63.1	57.1	–	59.6
April	66.6	66.6	58.8	57.2	–	57.8	76.0	76.0	W	58.2	–	60.3
May	71.7	71.6	64.4	60.4	–	61.8	80.2	80.2	W	61.3	–	64.4
June	73.6	73.5	64.7	59.2	–	60.9	82.3	82.3	W	60.3	–	63.4
July	72.3	72.2	63.9	58.5	–	60.3	81.2	81.2	W	59.5	–	62.7
August	68.4	68.3	61.4	53.6	W	56.4	77.1	77.1	W	W	–	58.9
September	67.5	67.4	61.0	53.8	W	56.6	76.5	76.5	W	W	–	59.3

See footnotes at end of table.

Table 10. U.S. Refiner Oxygenated Motor Gasoline Prices by Grade and Sales Type

(Cents per Gallon Excluding Taxes) — Continued

Year Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average
1994	**92.9**	**92.4**	**79.9**	**67.5**	**56.7**	**76.5**	**79.3**	**78.8**	**71.5**	**60.7**	**53.5**	**67.5**
1995	**94.6**	**94.3**	**84.7**	**72.4**	**W**	**79.1**	**80.4**	**80.2**	**74.2**	**64.7**	**59.5**	**69.1**
1996												
January	95.4	95.1	84.1	71.7	57.7	78.8	80.6	80.4	73.9	63.2	W	68.7
February	97.1	97.0	86.6	73.8	–	81.2	82.0	81.8	75.6	66.0	–	70.9
March	103.0	102.6	93.0	79.7	W	87.6	88.2	87.9	82.6	73.3	W	78.2
April	111.4	111.2	101.6	84.6	–	91.9	97.0	96.6	90.2	77.1	–	82.2
May	117.2	117.1	108.5	84.0	–	92.5	101.9	101.5	96.8	77.2	–	84.1
June	114.5	114.4	NA	83.1	–	91.6	100.3	100.0	NA	77.4	–	84.1
July	111.9	111.9	NA	81.7	–	89.4	98.3	97.9	NA	76.0	–	82.4
August	111.8	111.7	NA	84.1	–	91.3	99.5	99.2	NA	79.1	–	84.8
September	111.9	111.2	101.8	86.8	–	93.5	100.3	99.8	91.0	80.8	–	85.1
October	110.1	109.8	98.3	86.9	–	93.8	96.8	96.5	88.1	79.7	–	84.2
November	110.1	109.8	94.2	86.1	–	90.4	95.5	95.2	83.4	79.3	–	81.4
December	107.1	106.9	90.3	83.7	–	87.2	91.9	91.8	79.7	76.7	–	78.1
1996	**103.7**	**103.5**	**90.7**	**80.0**	**58.3**	**85.5**	**90.2**	**90.0**	**81.1**	**73.1**	**W**	**76.8**
1997												
January	109.1	108.9	95.9	85.7	–	91.0	93.3	93.1	84.8	78.6	–	81.6
February	111.9	111.6	101.0	86.2	–	94.3	95.9	95.7	89.8	78.8	–	84.5
March	113.1	112.8	103.2	82.6	–	96.1	98.0	97.7	91.7	76.2	–	85.2
April	104.2	104.2	94.7	75.4	–	79.9	91.1	90.9	84.0	70.1	–	73.5
May	105.5	105.5	98.4	80.6	–	86.6	91.7	91.5	84.7	76.0	–	79.3
June	104.7	104.7	93.2	77.0	–	82.2	90.4	90.3	81.9	72.3	–	75.8
July	101.8	101.8	88.5	76.1	–	79.6	87.6	87.4	77.0	71.9	–	73.7
August	105.1	104.9	92.6	82.7	–	85.7	90.2	90.1	81.6	78.4	–	79.5
September	108.5	108.1	97.7	82.1	–	87.4	94.0	93.7	87.2	76.2	–	80.1
October	108.0	107.6	97.5	80.6	–	87.0	93.0	92.7	86.7	73.0	–	77.7
November	107.3	107.0	95.0	79.4	–	85.7	91.4	91.1	84.0	71.5	–	76.0
December	104.1	104.1	90.3	73.9	–	80.5	87.5	87.3	79.0	66.0	–	70.8
1997	**107.9**	**107.7**	**96.9**	**80.4**	**–**	**87.6**	**92.4**	**92.2**	**85.3**	**73.6**	**–**	**78.4**
1998												
January	98.7	98.7	85.3	67.7	–	74.5	82.3	82.2	73.9	60.4	–	65.2
February	90.8	90.7	78.5	66.0	–	71.1	74.4	74.3	66.8	58.8	–	61.7
March	84.5	84.5	70.8	62.9	–	66.9	68.4	68.4	59.1	56.7	–	57.7
April	85.1	85.1	75.1	W	–	67.7	69.3	69.3	61.3	57.8	–	59.0
May	89.2	89.2	80.6	W	–	71.8	74.3	74.2	67.0	61.0	–	63.0
June	90.9	90.9	79.6	W	–	69.7	76.1	76.0	67.1	59.8	–	62.0
July	89.0	89.0	78.5	W	–	70.3	74.8	74.7	66.4	59.1	–	61.6
August	84.8	84.8	75.5	59.4	–	66.8	70.9	70.7	64.0	54.2	W	57.8
September	85.3	85.3	75.8	60.6	–	68.0	70.2	70.1	63.9	54.7	W	58.3

Dash (–) = No data reported.
NA = Not available.
W = Withheld to avoid disclosure of individual company data.
[a] Includes sales through retail outlets as well as all direct sales to end users that were not made through company-operated retail outlets, e.g., sales to agricultural customers, commercial sales, and industrial sales.
Notes: The 4th quarter of 1993 was a transitional period between the predecessor EIA-782 survey system and the revised EIA-782 survey sytem. The revised survey system contains additional product and sales categories, which may not be consistent with categories derived from the predecessor survey system. Beginning January 1994 all data are from the revised survey system and are consistent.
Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual.*
Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

Table 11. U.S. Refiner Oxygenated Motor Gasoline Volumes by Grade and Sales Type

(Million Gallons per Day)

Year Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total[a]	DTW	Rack	Bulk	Total	Through Retail Outlets	Total[a]	DTW	Rack	Bulk	Total
1994	**4.0**	**4.1**	**9.4**	**5.2**	**0.9**	**15.5**	**0.7**	**0.7**	**2.1**	**0.8**	**W**	**2.9**
1995	**2.5**	**2.5**	**3.8**	**W**	**W**	**8.1**	**0.5**	**0.5**	**0.8**	**0.5**	**–**	**1.3**
1996												
January	5.5	5.6	8.6	7.6	W	17.0	1.6	1.6	2.2	1.2	–	3.5
February	4.2	4.3	4.2	4.5	–	8.7	1.1	1.1	1.0	0.6	–	1.6
March	2.1	2.2	1.8	1.8	W	3.7	0.5	0.5	0.4	0.2	–	0.6
April	1.2	1.2	0.7	1.3	–	2.1	0.2	0.2	0.2	0.1	–	0.3
May	1.0	1.0	0.7	1.5	–	2.2	0.2	0.2	0.1	0.2	–	0.3
June	1.1	1.1	NA	1.5	–	2.3	0.2	0.2	0.2	0.2	–	0.3
July	1.1	1.1	NA	1.5	–	2.3	0.2	0.2	0.2	0.2	–	0.3
August	1.0	1.0	NA	1.6	–	2.4	0.2	0.2	NA	0.2	–	0.3
September	1.0	1.0	1.3	1.9	–	3.1	0.2	0.2	0.2	0.2	–	0.5
October	2.4	2.4	3.3	3.1	–	6.4	0.5	0.5	0.6	0.3	–	0.9
November	4.0	4.1	4.0	4.3	–	8.4	0.9	0.9	0.7	0.6	–	1.2
December	4.4	4.5	4.0	4.5	–	8.5	0.9	0.9	0.7	0.5	–	1.2
1996	**2.4**	**2.5**	**2.6**	**2.9**	**W**	**5.6**	**0.5**	**0.5**	**0.5**	**0.4**	**–**	**0.9**
1997												
January	4.0	4.1	4.0	4.3	–	8.3	0.9	0.9	W	W	–	1.1
February	4.0	4.0	4.0	4.0	–	8.0	0.8	0.8	W	W	–	1.1
March	2.5	2.6	2.9	2.3	–	5.1	0.4	0.4	0.5	0.2	–	0.7
April	0.9	0.9	0.5	1.6	–	2.1	0.1	0.2	W	W	–	0.3
May	1.3	1.4	1.0	1.7	–	2.7	0.2	0.2	0.2	0.2	–	0.3
June	1.5	1.6	1.0	1.8	–	2.8	0.2	0.2	W	W	–	0.4
July	1.3	1.4	1.0	1.8	–	2.8	0.2	0.2	W	W	–	0.4
August	1.3	1.4	1.0	1.9	–	2.8	0.2	0.2	W	W	–	0.4
September	1.6	1.6	1.3	2.4	–	3.7	0.2	0.2	W	W	–	0.6
October	2.1	2.2	2.0	4.0	–	6.0	0.4	0.4	W	W	–	1.1
November	3.1	3.2	2.9	5.3	–	8.2	0.7	0.7	W	W	–	1.3
December	3.4	3.4	3.0	5.6	–	8.6	0.7	0.7	W	W	–	1.3
1997	**2.3**	**2.3**	**2.0**	**3.0**	**–**	**5.1**	**0.4**	**0.4**	**0.3**	**0.4**	**–**	**0.8**
1998												
January	3.0	3.0	2.8	5.3	–	8.1	0.7	0.7	W	W	–	1.4
February	2.9	2.9	2.7	5.0	–	7.7	0.6	0.6	W	W	–	1.3
March	2.3	2.4	2.4	3.1	–	5.5	0.3	0.3	W	W	–	1.0
April	1.7	1.7	1.5	2.9	–	4.3	0.3	0.3	W	W	–	0.8
May	1.6	1.6	1.4	2.8	–	4.2	0.2	0.2	W	W	–	0.8
June	1.6	1.6	1.5	3.3	–	4.8	0.2	0.2	W	W	–	0.8
July	1.5	1.6	1.5	3.0	–	4.6	0.2	0.2	W	W	–	0.8
August	1.5	1.5	1.6	W	W	4.3	0.2	0.2	W	W	–	0.8
September	1.6	1.6	2.0	W	W	5.2	0.3	0.3	W	W	–	1.0

See footnotes at end of table.

Table 11. U.S. Refiner Oxygenated Motor Gasoline Volumes by Grade and Sales Type

(Million Gallons per Day) — Continued

Year Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total[a]	DTW	Rack	Bulk	Total	Through Retail Outlets	Total[a]	DTW	Rack	Bulk	Total
1994	**1.2**	**1.2**	**5.0**	**1.4**	**0.2**	**6.6**	**5.9**	**6.1**	**16.5**	**7.4**	**1.1**	**25.0**
1995	**0.5**	**0.5**	**1.1**	**W**	**W**	**1.9**	**3.5**	**3.6**	**5.7**	**5.1**	**0.6**	**11.3**
1996												
January	1.3	1.3	2.6	1.4	0.2	4.2	8.3	8.5	13.5	10.2	W	24.7
February	0.9	0.9	1.1	0.8	–	1.8	6.3	6.3	6.2	5.9	–	12.1
March	0.4	0.4	0.4	0.3	W	0.7	3.0	3.0	2.6	2.3	W	5.0
April	0.2	0.2	0.1	0.2	–	0.3	1.6	1.6	1.0	1.7	–	2.7
May	0.1	0.1	0.1	0.2	–	0.3	1.3	1.3	1.0	1.8	–	2.8
June	0.1	0.1	NA	0.2	–	0.4	1.4	1.4	NA	1.9	–	2.9
July	0.1	0.1	NA	0.3	–	0.4	1.4	1.4	NA	2.0	–	3.0
August	0.1	0.1	NA	0.3	–	0.4	1.2	1.3	NA	2.1	–	3.2
September	0.1	0.2	0.2	0.3	–	0.5	1.3	1.4	1.8	2.4	–	4.1
October	0.4	0.4	0.7	0.5	–	1.2	3.3	3.3	4.6	3.9	–	8.5
November	0.6	0.7	0.8	0.7	–	1.5	5.5	5.6	5.5	5.6	–	11.1
December	0.7	0.7	0.8	0.7	–	1.6	6.1	6.1	5.6	5.7	–	11.3
1996	**0.4**	**0.4**	**0.6**	**0.5**	**0.0**	**1.1**	**3.4**	**3.4**	**3.7**	**3.8**	**W**	**7.6**
1997												
January	0.6	0.6	W	W	–	1.4	5.5	5.5	5.4	5.6	–	10.9
February	0.6	0.6	W	W	–	1.3	5.3	5.4	5.4	5.1	–	10.5
March	0.3	0.4	0.6	0.3	–	0.9	3.3	3.3	3.9	2.8	–	6.7
April	0.1	0.1	W	W	–	0.3	1.2	1.2	0.7	2.0	–	2.7
May	0.1	0.1	0.1	0.2	–	0.3	1.7	1.7	1.3	2.1	–	3.4
June	0.2	0.2	W	W	–	0.4	2.0	2.0	1.3	2.3	–	3.6
July	0.2	0.2	W	W	–	0.4	1.7	1.7	1.3	2.3	–	3.6
August	0.1	0.1	W	W	–	0.4	1.7	1.7	1.3	2.4	–	3.6
September	0.2	0.2	W	W	–	0.5	2.0	2.1	1.7	3.1	–	4.8
October	0.3	0.3	W	W	–	0.8	2.8	2.8	2.7	5.2	–	8.0
November	0.4	0.4	W	W	–	1.2	4.2	4.3	3.9	6.8	–	10.7
December	0.5	0.5	W	W	–	1.3	4.6	4.6	4.1	7.1	–	11.2
1997	**0.3**	**0.3**	**0.3**	**0.4**	**–**	**0.8**	**3.0**	**3.0**	**2.7**	**3.9**	**–**	**6.6**
1998												
January	0.4	0.4	W	W	–	1.3	4.1	4.2	3.8	6.9	–	10.7
February	0.4	0.4	W	W	–	1.2	3.8	3.8	3.7	6.5	–	10.2
March	0.2	0.2	W	W	–	0.8	2.9	2.9	3.2	4.1	–	7.4
April	0.2	0.2	W	W	–	0.5	2.1	2.1	1.9	3.8	–	5.6
May	0.2	0.2	W	W	–	0.5	2.0	2.0	1.8	3.7	–	5.5
June	0.2	0.2	W	W	–	0.6	2.0	2.0	1.9	4.3	–	6.2
July	0.2	0.2	W	W	–	0.5	1.9	2.0	2.0	3.9	–	5.9
August	0.2	0.2	0.3	0.3	–	0.5	1.9	1.9	W	3.6	W	5.6
September	0.2	0.2	0.4	0.4	–	0.8	2.1	2.1	W	4.2	W	7.0

Dash (–) = No data reported.
NA = Not available.
W = Withheld to avoid disclosure of individual company data.
[a] Includes sales through retail outlets as well as all direct sales to end users that were not made through company-operated retail outlets, e.g., sales to agricultural customers, commercial sales, and industrial sales.
Notes: The 4th quarter of 1993 was a transitional period between the predecessor EIA-782 survey system and the revised EIA-782 survey sytem. The revised survey system contains additional product and sales categories, which may not be consistent with categories derived from the predecessor survey system. Beginning January 1994 all data are from the revised survey system and are consistent.
Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual.* Totals may not equal the sum of the components due to rounding.
Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

Table 12. U.S. Refiner Reformulated Motor Gasoline Prices by Grade and Sales Type

(Cents per Gallon Excluding Taxes)

Year Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average
1994	**76.4**	**75.8**	**72.0**	**56.9**	**54.3**	**63.8**	**87.9**	**87.3**	**77.0**	**62.8**	**W**	**72.8**
1995	**74.9**	**74.4**	**70.7**	**60.5**	**57.3**	**65.0**	**83.6**	**83.3**	**75.3**	**65.1**	**–**	**72.3**
1996												
January	71.4	71.0	67.6	59.2	56.0	63.1	80.9	80.6	72.3	63.8	–	69.9
February	72.2	71.7	67.8	59.8	56.8	63.2	81.3	81.0	73.1	64.2	–	70.5
March	76.7	76.3	72.0	65.8	65.5	68.8	86.0	85.7	77.9	70.0	–	75.6
April	87.7	87.3	83.5	77.0	77.3	80.2	96.5	96.2	88.8	81.4	–	86.7
May	95.7	95.3	91.7	77.0	74.8	83.4	105.1	104.7	96.8	81.4	–	92.2
June	93.5	92.9	89.1	70.5	68.0	78.9	103.0	102.4	94.0	75.1	–	88.3
July	88.8	88.4	85.3	70.7	68.7	77.3	98.6	98.3	90.3	75.2	–	85.6
August	84.3	84.0	79.9	68.9	65.2	73.4	94.0	93.7	85.1	73.4	W	81.5
September	81.4	81.1	76.8	69.5	66.5	72.6	91.0	90.8	82.3	73.8	W	79.8
October	80.2	79.9	74.7	70.4	66.5	72.1	90.2	89.9	80.5	74.8	W	78.8
November	80.0	79.7	73.5	71.6	65.2	71.6	89.7	89.4	79.6	75.9	W	78.5
December	80.0	79.7	74.7	71.8	69.4	72.8	89.8	89.5	80.5	76.3	W	79.2
1996	**83.4**	**83.0**	**78.8**	**69.8**	**67.7**	**73.8**	**92.4**	**92.1**	**83.7**	**74.1**	**W**	**80.9**
1997												
January	82.3	82.1	76.9	73.8	73.2	75.2	92.0	91.6	82.4	77.6	W	81.0
February	82.9	82.7	77.9	71.0	72.1	74.5	92.6	92.4	83.1	75.0	W	80.8
March	82.2	82.0	78.5	69.7	72.7	74.4	91.9	91.7	83.7	73.8	W	80.9
April	83.0	82.8	80.5	68.0	69.0	74.4	92.5	92.4	85.1	72.3	W	81.5
May	82.9	82.5	78.3	68.4	63.4	72.3	92.5	92.2	83.8	72.6	NA	80.5
June	81.1	80.7	76.4	64.0	58.1	69.2	91.1	90.7	81.9	68.5	W	78.0
July	79.5	79.2	74.0	64.7	59.3	68.4	89.7	89.2	79.5	69.1	W	76.4
August	85.0	84.8	81.3	74.2	72.2	77.2	94.9	94.7	87.1	78.4	W	84.5
September	88.3	88.0	85.0	71.7	72.6	78.2	98.0	97.9	90.4	75.9	W	86.2
October	86.3	86.0	82.2	67.4	68.1	74.5	96.0	95.7	87.3	71.7	W	82.8
November	83.1	82.8	78.6	64.3	60.5	71.0	92.7	92.5	83.7	68.6	W	79.4
December	79.4	79.1	74.5	60.7	58.7	67.0	89.3	89.1	79.7	65.2	W	75.5
1997	**83.0**	**82.8**	**78.7**	**68.1**	**66.8**	**73.0**	**92.8**	**92.5**	**83.9**	**72.4**	**W**	**80.6**
1998												
January	74.3	74.1	69.5	56.6	55.4	62.7	83.1	82.9	74.8	60.8	W	70.8
February	67.6	67.4	62.6	53.8	52.4	57.9	77.8	77.7	68.0	57.9	W	65.1
March	62.7	62.5	57.5	50.9	49.9	54.1	72.9	72.7	63.1	55.0	W	60.8
April	65.3	65.1	59.9	54.6	54.5	57.2	75.0	74.9	65.5	58.8	W	63.6
May	70.6	70.4	65.7	57.2	53.5	60.7	80.0	79.9	71.2	61.6	W	68.4
June	69.3	69.1	64.7	53.5	49.7	58.4	79.2	79.0	70.3	58.2	W	66.6
July	68.0	67.8	62.8	51.8	47.8	56.2	78.3	78.2	68.7	56.4	W	64.9
August	66.5	66.2	60.7	47.9	W	53.8	76.9	76.7	66.4	W	W	62.1
September	65.0	64.7	59.4	49.0	W	53.4	75.4	75.2	65.2	W	W	61.6

See footnotes at end of table.

Table 12. U.S. Refiner Reformulated Motor Gasoline Prices by Grade and Sales Type

(Cents per Gallon Excluding Taxes) — Continued

Year Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average
1994	**96.6**	**95.8**	**86.1**	**67.7**	**55.8**	**77.7**	**83.1**	**82.4**	**77.1**	**59.9**	**54.7**	**68.7**
1995	**92.9**	**92.4**	**84.1**	**70.4**	**61.6**	**78.5**	**80.8**	**80.3**	**75.6**	**63.2**	**58.2**	**69.6**
1996												
January	89.9	89.5	80.6	69.3	61.4	76.1	77.5	77.1	72.4	61.9	57.2	67.5
February	90.3	89.8	81.2	69.4	62.1	76.4	78.2	77.7	72.8	62.4	57.8	67.6
March	94.6	94.1	85.5	75.1	69.4	81.3	82.5	82.0	76.9	68.2	66.2	72.9
April	104.8	104.3	95.7	85.9	80.2	91.7	92.7	92.2	87.7	79.2	77.8	83.7
May	111.6	110.9	103.0	86.0	77.4	95.6	100.1	99.6	95.1	79.0	75.2	86.9
June	109.6	108.9	100.4	79.1	68.9	90.6	98.0	97.3	92.6	72.5	68.1	82.6
July	105.6	105.1	96.9	79.8	70.8	89.5	93.5	93.1	89.0	72.9	69.0	81.0
August	101.4	101.0	92.3	78.5	69.1	86.4	89.1	88.8	83.9	71.1	65.7	77.2
September	99.2	98.8	89.8	79.3	70.3	85.0	86.3	86.0	81.0	71.7	67.2	76.2
October	98.7	98.3	88.9	80.6	71.4	85.2	85.2	84.8	79.2	72.7	67.3	75.8
November	98.8	98.3	88.6	82.6	70.8	85.7	85.0	84.6	78.3	74.0	66.0	75.5
December	99.2	98.8	89.1	82.9	75.0	86.1	85.0	84.6	79.2	74.2	70.1	76.3
1996	**100.2**	**99.8**	**91.0**	**79.1**	**70.9**	**85.9**	**88.2**	**87.8**	**82.8**	**72.0**	**68.2**	**77.4**
1997												
January	100.9	100.5	90.8	83.6	77.9	87.9	87.1	86.8	81.1	75.9	73.8	78.5
February	101.0	100.7	91.1	80.2	73.5	87.2	87.6	87.3	81.9	72.9	72.3	77.9
March	100.0	99.7	91.1	78.7	71.6	86.1	86.8	86.6	82.4	71.7	72.6	77.7
April	100.0	100.1	91.9	77.2	69.5	86.0	87.5	87.5	84.0	70.1	69.1	77.8
May	99.5	99.3	90.3	78.1	70.2	85.1	87.4	87.2	82.2	70.6	64.4	76.1
June	98.6	97.9	88.9	74.0	65.0	82.5	86.0	85.6	80.5	66.3	59.4	73.2
July	97.6	96.9	86.8	75.0	64.3	81.6	84.4	84.1	78.1	67.0	60.1	72.3
August	103.0	102.8	94.3	84.6	78.3	90.1	89.6	89.5	85.4	76.5	73.0	80.8
September	105.9	106.0	97.1	81.1	75.2	90.7	92.7	92.6	88.7	73.7	73.0	81.7
October	103.2	102.9	93.7	76.3	67.6	85.8	90.6	90.3	85.8	69.4	68.1	77.8
November	100.1	99.9	90.3	72.8	62.4	82.3	87.5	87.2	82.3	66.2	61.0	74.5
December	96.8	96.6	86.5	69.4	60.3	79.0	83.9	83.6	78.2	62.6	59.0	70.6
1997	**100.5**	**100.2**	**91.0**	**77.5**	**68.6**	**85.2**	**87.6**	**87.4**	**82.5**	**70.2**	**67.1**	**76.5**
1998												
January	91.2	91.0	81.6	65.2	58.8	75.5	78.7	78.5	73.3	58.5	55.8	66.3
February	85.8	85.6	75.3	62.3	53.2	70.2	72.4	72.2	66.6	55.7	52.5	61.4
March	81.2	81.0	70.7	59.7	50.8	65.8	67.6	67.4	61.7	52.9	50.1	57.5
April	83.0	82.8	72.8	W	58.1	68.7	69.9	69.7	63.9	56.6	55.2	60.4
May	87.5	87.3	77.6	W	57.4	72.3	75.1	74.8	69.5	59.2	54.2	64.0
June	86.8	86.6	76.8	W	54.3	71.1	74.0	73.7	68.5	55.6	50.3	62.1
July	86.8	86.6	75.3	W	52.1	69.5	73.0	72.8	66.9	54.0	48.2	60.0
August	84.6	84.4	W	57.5	49.4	66.6	71.5	71.2	64.8	50.2	W	57.6
September	83.3	83.0	W	58.2	48.8	65.5	70.0	69.7	63.5	51.2	W	57.1

Dash (–) = No data reported.
NA = Not available.
W = Withheld to avoid disclosure of individual company data.
[a] Includes sales through retail outlets as well as all direct sales to end users that were not made through company-operated retail outlets, e.g., sales to agricultural customers, commercial sales, and industrial sales.
Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual.*
Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

Table 13. U.S. Refiner Reformulated Motor Gasoline Volumes by Grade and Sales Type

(Million Gallons per Day)

Year Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total[a]	DTW	Rack	Bulk	Total	Through Retail Outlets	Total[a]	DTW	Rack	Bulk	Total
1994	**0.6**	**0.6**	**2.1**	**1.6**	**0.6**	**4.3**	**0.2**	**0.2**	**0.7**	**0.3**	**W**	**1.0**
1995	**7.8**	**8.1**	**20.7**	**W**	**W**	**43.3**	**3.0**	**3.1**	**7.4**	**3.1**	**–**	**10.5**
1996												
January	7.5	7.8	19.3	15.7	3.8	38.7	2.9	3.0	7.0	2.7	–	9.7
February	7.7	8.0	20.3	16.9	5.9	43.1	3.0	3.0	7.4	3.0	–	10.4
March	8.4	8.7	21.7	17.3	5.6	44.7	3.1	3.2	7.5	3.0	–	10.5
April	9.8	10.2	25.8	20.0	7.9	53.7	3.3	3.3	8.1	3.4	–	11.4
May	11.3	11.7	28.9	22.2	11.1	62.3	3.3	3.3	8.2	3.5	–	11.6
June	11.7	12.1	28.6	23.0	8.9	60.4	3.4	3.5	8.2	3.6	–	11.8
July	11.4	12.0	27.8	22.0	9.1	58.9	3.3	3.4	8.1	3.6	–	11.7
August	11.4	12.0	28.3	22.7	10.1	61.1	3.4	3.5	8.2	3.6	W	11.9
September	11.6	12.1	27.6	21.2	8.7	57.5	3.4	3.5	8.0	3.3	W	11.4
October	12.2	12.7	28.3	21.3	6.9	56.5	3.5	3.6	8.2	3.3	W	11.6
November	12.1	12.6	28.2	21.6	8.4	58.3	3.5	3.6	8.3	3.3	W	11.6
December	12.6	13.1	27.9	22.0	9.6	59.5	3.6	3.7	8.2	3.3	W	11.6
1996	**10.7**	**11.1**	**26.1**	**20.5**	**8.0**	**54.6**	**3.3**	**3.4**	**7.9**	**3.3**	**W**	**11.3**
1997												
January	11.4	11.9	27.1	20.8	8.4	56.3	3.2	3.3	7.7	W	W	10.8
February	12.2	12.7	28.4	21.2	7.7	57.4	3.3	3.5	8.1	W	W	11.2
March	12.5	13.0	28.5	21.8	8.1	58.3	3.4	3.5	8.0	W	W	11.2
April	12.4	12.8	29.0	21.1	7.0	57.1	3.4	3.5	7.9	W	W	11.0
May	12.1	12.5	27.3	22.1	8.5	57.9	3.3	3.4	7.9	3.2	0.0	11.1
June	12.2	12.6	27.5	22.1	7.4	56.9	3.4	3.5	7.9	W	W	11.2
July	13.8	14.2	27.4	22.9	7.3	57.6	3.7	3.8	8.0	W	W	11.4
August	14.8	15.1	28.1	23.5	8.9	60.4	3.9	4.0	8.0	W	W	11.5
September	14.8	15.2	27.7	22.3	7.7	57.7	3.7	3.8	7.7	W	W	10.8
October	14.9	15.3	28.0	22.7	9.2	59.9	3.7	3.9	7.7	W	W	10.9
November	14.3	14.6	28.7	21.8	6.8	57.2	3.6	3.7	7.7	W	W	10.7
December	15.6	15.9	29.0	22.6	8.7	60.2	4.0	4.0	7.7	W	W	10.9
1997	**13.4**	**13.8**	**28.1**	**22.1**	**8.0**	**58.1**	**3.6**	**3.7**	**7.9**	**3.2**	**W**	**11.0**
1998												
January	13.6	13.8	27.4	20.9	8.2	56.5	3.7	3.7	7.2	W	W	10.0
February	14.4	14.6	28.4	21.9	7.4	57.7	3.6	3.6	7.3	W	W	10.3
March	14.6	14.8	29.1	22.5	6.8	58.4	3.6	3.7	7.4	W	W	10.4
April	15.0	15.2	29.7	22.8	8.6	61.2	3.7	3.7	7.5	W	W	10.5
May	14.9	15.2	29.9	23.5	9.8	63.1	3.8	3.8	7.5	W	W	10.6
June	15.3	15.6	30.3	24.2	8.2	62.7	3.9	3.9	7.6	W	W	10.9
July	15.8	16.0	29.5	24.3	10.6	64.5	4.1	4.1	7.6	W	W	11.0
August	15.4	15.6	29.2	W	W	61.4	4.0	4.0	7.5	W	W	10.9
September	15.4	15.7	28.6	W	W	61.5	4.0	4.0	7.4	W	W	10.5

See footnotes at end of table.

Table 13. U.S. Refiner Reformulated Motor Gasoline Volumes by Grade and Sales Type

(Million Gallons per Day) — Continued

Year Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total[a]	DTW	Rack	Bulk	Total	Through Retail Outlets	Total[a]	DTW	Rack	Bulk	Total
1994	**0.2**	**0.2**	**1.2**	**0.5**	**0.2**	**1.9**	**1.0**	**1.0**	**4.0**	**2.4**	**0.8**	**7.2**
1995	**3.1**	**3.2**	**12.0**	**W**	**W**	**18.9**	**14.0**	**14.4**	**40.1**	**25.9**	**6.6**	**72.6**
1996												
January	3.0	3.1	11.2	5.1	1.1	17.4	13.5	13.8	37.5	23.5	4.8	65.8
February	3.1	3.1	11.8	5.4	1.3	18.6	13.8	14.1	39.5	25.4	7.2	72.1
March	3.1	3.1	11.8	5.4	1.2	18.4	14.6	15.0	41.0	25.7	6.9	73.5
April	3.0	3.1	12.1	5.4	1.5	19.1	16.1	16.6	46.0	28.8	9.5	84.2
May	2.8	2.9	11.0	5.1	1.7	17.9	17.4	17.9	48.1	30.8	12.8	91.8
June	3.0	3.1	11.6	5.5	2.3	19.3	18.1	18.6	48.4	32.0	11.2	91.5
July	3.1	3.2	11.5	5.6	1.6	18.7	17.8	18.6	47.4	31.2	10.7	89.3
August	3.2	3.3	12.0	5.7	1.5	19.2	18.0	18.8	48.6	32.1	11.6	92.3
September	3.2	3.3	11.9	5.2	1.9	19.0	18.2	18.9	47.5	29.7	10.6	87.8
October	3.2	3.3	12.0	5.3	1.4	18.7	18.8	19.6	48.5	30.0	8.3	86.8
November	3.2	3.3	12.0	5.2	1.3	18.5	18.8	19.5	48.5	30.1	9.8	88.4
December	3.2	3.3	11.6	5.2	1.6	18.4	19.4	20.2	47.6	30.5	11.3	89.4
1996	**3.1**	**3.2**	**11.7**	**5.3**	**1.5**	**18.6**	**17.0**	**17.6**	**45.7**	**29.2**	**9.6**	**84.5**
1997												
January	2.9	3.0	11.0	W	W	16.8	17.5	18.2	45.9	28.6	9.5	83.9
February	3.0	3.1	11.5	W	W	17.1	18.6	19.3	48.0	29.2	8.5	85.6
March	3.1	3.3	11.6	W	W	18.2	19.1	19.8	48.1	30.0	9.6	87.7
April	3.2	3.4	11.7	W	W	18.2	19.0	19.8	48.6	29.3	8.4	86.3
May	3.2	3.4	11.5	5.6	1.5	18.6	18.6	19.4	46.7	30.9	10.0	87.6
June	3.4	3.6	11.8	W	W	19.0	18.9	19.7	47.2	30.9	9.0	87.0
July	3.7	3.9	11.8	W	W	19.0	21.2	21.9	47.2	32.1	8.6	88.0
August	3.6	3.8	11.4	W	W	18.5	22.3	22.9	47.5	32.5	10.3	90.4
September	3.4	3.7	10.7	W	W	17.1	22.0	22.7	46.1	30.6	8.9	85.6
October	3.5	3.6	11.1	W	W	18.4	22.2	22.7	46.8	31.2	11.2	89.2
November	3.5	3.5	11.6	W	W	18.9	21.5	21.8	47.9	29.9	9.0	86.8
December	3.8	3.8	11.8	W	W	19.2	23.4	23.7	48.5	31.1	10.6	90.3
1997	**3.4**	**3.5**	**11.5**	**5.3**	**1.5**	**18.3**	**20.4**	**21.0**	**47.4**	**30.5**	**9.5**	**87.4**
1998												
January	3.5	3.5	11.2	W	W	17.3	20.7	21.0	45.8	28.7	9.3	83.8
February	3.7	3.7	11.9	W	W	18.3	21.7	22.0	47.6	30.1	8.5	86.2
March	3.8	3.9	12.3	W	W	19.6	22.0	22.4	48.8	31.0	8.6	88.4
April	3.8	3.9	12.3	W	W	19.8	22.5	22.8	49.4	31.5	10.5	91.5
May	3.8	3.9	12.2	W	W	19.9	22.6	22.9	49.5	32.4	11.7	93.6
June	4.0	4.0	12.5	W	W	19.8	23.2	23.5	50.4	33.5	9.5	93.4
July	4.2	4.2	12.6	W	W	20.2	24.0	24.3	49.7	34.2	11.8	95.7
August	4.2	4.2	W	6.4	W	20.6	23.5	23.9	W	34.2	W	92.9
September	4.1	4.2	W	6.2	W	20.9	23.5	23.9	W	32.9	W	93.0

Dash (–) = No data reported.
W = Withheld to avoid disclosure of individual company data.
[a] Includes sales through retail outlets as well as all direct sales to end users that were not made through company-operated retail outlets, e.g., sales to agricultural customers, commercial sales, and industrial sales.
Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual.* Totals may not equal the sum of the components due to rounding.
Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

Table 14. U.S. Propane (Consumer Grade) Prices by Sales Type

(Cents per Gallon Excluding Taxes)

Year Month	Sales to End Users							Sales for Resale
	Residential Consumers	Commercial/ Institutional Consumers	Industrial Consumers	Through Retail Outlets	Petro-Chemical	Other End Users	Average	
1994	**87.2**	**76.5**	**65.2**	**73.6**	**31.1**	**63.4**	**77.6**	**33.6**
1995	**86.5**	**77.7**	**64.6**	**74.7**	**32.4**	**66.2**	**76.6**	**35.4**
1996								
January	92.8	82.5	68.1	NA	34.5	71.8	86.3	42.3
February	96.1	84.9	70.3	81.9	38.3	75.2	88.5	45.1
March	96.3	86.1	70.1	68.7	36.5	75.5	87.7	42.3
April	96.0	84.3	68.3	67.1	36.2	75.5	84.8	38.9
May	95.0	83.3	66.8	65.5	35.7	76.8	79.9	37.5
June	94.5	82.8	67.9	65.7	35.3	76.3	78.6	37.3
July	89.3	82.9	66.2	65.5	35.4	71.1	76.6	38.0
August	86.5	80.6	66.1	66.0	36.9	67.5	75.6	39.6
September	90.7	85.0	71.4	69.7	43.8	69.5	78.4	45.8
October	97.4	91.0	75.6	78.3	46.1	70.0	84.0	51.5
November	105.7	96.6	81.8	83.7	54.2	82.5	95.9	58.3
December	121.3	110.0	92.3	95.0	58.4	97.3	112.5	68.4
1996	**99.1**	**88.4**	**73.3**	**75.7**	**41.3**	**76.4**	**88.6**	**47.1**
1997								
January	118.1	106.3	90.2	88.8	52.9	93.9	110.2	61.2
February	107.4	97.2	79.5	77.8	42.1	82.9	98.1	46.2
March	102.2	87.7	79.6	74.7	41.0	79.6	90.2	42.7
April	98.5	88.3	76.5	71.4	36.2	78.6	84.6	39.1
May	97.2	86.9	73.7	70.0	35.9	80.0	81.0	38.0
June	96.8	87.8	81.2	69.5	35.5	80.5	82.2	37.4
July	91.7	86.8	79.8	68.5	35.3	74.0	79.8	37.0
August	87.4	84.8	79.2	67.1	36.9	71.2	78.4	38.4
September	88.4	84.3	80.9	68.2	37.6	70.0	78.5	40.4
October	91.4	85.1	81.0	69.9	39.5	65.6	79.5	41.9
November	93.3	86.7	80.4	69.2	38.6	68.1	83.2	40.8
December	95.5	87.4	81.2	69.1	35.2	71.4	86.8	38.7
1997	**100.2**	**90.0**	**81.5**	**72.6**	**38.3**	**74.4**	**88.4**	**42.6**
1998								
January	94.7	86.5	80.9	67.2	32.2	70.6	85.5	36.5
February	96.3	87.7	77.4	66.6	30.9	70.4	84.9	34.1
March	93.5	85.5	75.4	64.5	28.7	70.0	82.6	32.3
April	94.4	84.3	78.3	64.5	28.9	72.8	80.6	31.1
May	94.9	84.9	76.5	74.4	28.1	76.3	78.2	30.0
June	90.4	84.0	69.6	63.0	25.2	71.8	75.4	27.4
July	86.1	82.4	68.0	60.1	24.9	68.2	73.9	26.6
August	82.2	80.5	67.1	59.3	24.3	64.4	70.8	26.5
September	82.0	79.2	65.4	58.1	24.3	59.7	71.7	26.9

NA = Not available.

Notes: The 4th quarter of 1993 was a transitional period between the predecessor EIA-782 survey system and the revised EIA-782 survey sytem. The revised survey system contains additional product and sales categories, which may not be consistent with categories derived from the predecessor survey system. Beginning January 1994 all data are from the revised survey system and are consistent.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual.*

Sources: Energy Information Administration Forms EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report."

Table 15. U.S. No. 2 Distillate[a] Prices by Sales Type

(Cents per Gallon Excluding Taxes)

Year Month	Sales to End Users						Sales for Resale
	Residential Consumers	Commercial/ Institutional Consumers	Industrial Consumers	Through Retail Outlets[b]	Other End Users[c]	Average	
1983	**107.8**	**86.3**	**88.3**	**94.3**	**89.7**	**93.3**	**81.8**
1984	**109.1**	**85.7**	**87.0**	**92.0**	**89.2**	**92.6**	**81.9**
1985	**105.3**	**82.1**	**83.4**	**88.6**	**85.3**	**89.0**	**78.1**
1986	**83.6**	**51.4**	**53.7**	**59.8**	**56.9**	**61.4**	**48.0**
1987	**80.3**	**56.6**	**59.7**	**64.4**	**63.1**	**64.3**	**53.5**
1988	**81.3**	**51.9**	**54.2**	**61.6**	**58.7**	**61.2**	**48.2**
1989	**90.0**	**60.8**	**63.8**	**68.5**	**66.7**	**69.5**	**57.2**
1990	**106.3**	**75.1**	**78.0**	**85.2**	**82.8**	**84.1**	**70.6**
1991	**101.9**	**67.5**	**69.7**	**74.5**	**73.8**	**76.0**	**62.7**
1992	**93.4**	**63.7**	**67.5**	**72.1**	**72.1**	**72.6**	**59.1**
1993	**91.1**	**62.0**	**66.7**	**71.1**	**70.5**	**71.0**	**56.6**
1994	**88.4**	**58.7**	**64.1**	**67.3**	**65.5**	**67.5**	**52.9**
1995	**86.7**	**59.3**	**64.4**	**67.0**	**67.3**	**67.3**	**53.6**
1996							
January	94.6	63.7	67.5	69.9	69.6	75.2	57.3
February	95.9	65.0	68.8	70.7	70.6	75.6	59.1
March	99.1	68.4	73.1	75.1	74.7	78.1	63.2
April	101.5	75.2	80.1	82.6	82.8	82.5	69.9
May	97.8	72.7	79.0	81.2	80.4	79.0	66.1
June	91.0	65.2	72.4	74.5	74.5	71.5	58.6
July	87.9	65.5	72.1	73.2	74.4	71.1	60.1
August	88.1	69.5	75.8	75.8	77.7	74.4	64.9
September	94.5	75.9	82.3	81.7	83.9	81.1	71.3
October	102.6	79.5	85.4	86.4	87.9	86.0	75.0
November	105.4	78.6	84.1	86.7	86.7	87.1	73.2
December	107.5	77.7	82.9	85.5	84.8	87.9	71.8
1996	**98.9**	**71.4**	**77.1**	**78.8**	**79.3**	**79.3**	**66.0**
1997							
January	107.9	76.9	81.7	84.0	83.6	88.2	70.7
February	105.1	74.5	79.5	81.8	82.0	84.8	67.1
March	101.6	69.3	73.0	76.3	76.9	78.6	61.7
April	99.2	67.7	72.1	75.4	77.0	75.8	61.8
May	96.3	66.3	71.0	74.4	76.0	73.3	60.8
June	92.3	63.1	67.8	71.9	73.2	69.8	56.8
July	88.3	62.0	66.6	70.2	71.0	68.0	56.2
August	86.9	64.3	68.6	71.7	73.2	70.0	58.8
September	88.5	63.6	68.5	71.1	73.4	70.0	57.9
October	92.1	67.3	71.2	73.7	76.3	73.6	61.9
November	94.1	67.9	71.0	74.0	75.1	75.4	61.6
December	93.8	64.0	67.0	71.0	70.5	73.8	56.0
1997	**98.4**	**67.4**	**71.2**	**74.3**	**75.5**	**75.3**	**61.1**
1998							
January	92.5	59.4	61.8	66.3	65.6	69.8	51.0
February	91.5	57.5	60.1	63.5	63.4	67.6	49.6
March	89.6	54.9	57.5	61.6	62.0	64.5	47.1
April	87.6	55.7	58.6	61.6	63.6	62.5	48.5
May	84.8	54.3	57.4	61.9	63.0	60.3	47.3
June	81.1	50.9	54.7	59.1	59.8	56.8	44.1
July	77.6	49.9	54.0	57.9	57.4	55.4	42.7
August	75.5	48.7	52.4	56.2	56.9	54.1	41.3
September	77.2	51.6	55.3	58.1	59.9	57.0	45.5

[a] Includes sales of No. 2 fuel oil and high- and low-sulfur diesel fuels.
[b] Includes low-sulfur diesel fuel only.
[c] All end-user sales not included in the other end-user categories shown, e.g., sales to agricultural customers or utilities.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual.*

Sources: Energy Information Administration Forms EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report."

Table 16. U.S. No. 2 Diesel Fuel Prices by Sales Type

(Cents per Gallon Excluding Taxes)

Year Month	Sales to End Users					Sales for Resale
	Commercial/ Institutional Consumers	Industrial Consumers	Through Retail Outlets[a]	Other End Users[b]	Average	
1994	**57.7**	**64.5**	**67.3**	**66.1**	**62.8**	**53.8**
1995	**58.8**	**64.9**	**67.0**	**67.7**	**63.6**	**54.6**
1996						
January	61.7	67.5	69.9	69.4	66.3	57.0
February	63.1	68.9	70.7	70.5	67.4	58.8
March	67.2	73.2	75.1	74.6	71.7	63.0
April	74.9	80.6	82.6	82.9	79.5	70.7
May	72.9	79.7	81.2	81.0	77.6	67.5
June	65.4	73.1	74.5	75.1	70.9	59.9
July	65.7	72.7	73.2	74.9	70.5	60.8
August	69.6	76.2	75.8	78.0	73.8	65.6
September	76.1	82.8	81.7	84.1	80.0	72.3
October	79.4	85.8	86.4	88.2	84.0	75.9
November	78.3	84.5	86.7	87.2	83.1	74.1
December	76.7	83.1	85.5	84.9	81.6	71.8
1996	**71.1**	**77.5**	**78.8**	**79.6**	**75.7**	**66.7**
1997						
January	75.5	81.8	84.0	83.8	80.3	70.7
February	73.6	79.5	81.8	82.2	78.3	68.4
March	68.4	73.2	76.3	77.1	73.1	63.4
April	67.2	72.5	75.4	77.4	72.3	62.8
May	66.0	71.3	74.4	76.3	71.4	61.3
June	62.8	68.1	71.9	73.6	68.6	57.3
July	61.8	67.0	70.2	71.8	67.2	56.6
August	64.3	69.2	71.7	73.8	69.2	59.6
September	63.4	69.3	71.1	73.9	68.6	58.7
October	67.1	71.7	73.7	76.6	71.7	62.6
November	67.3	71.6	74.0	75.7	71.5	62.6
December	62.5	67.5	71.0	70.9	67.3	56.4
1997	**66.6**	**71.5**	**74.3**	**75.9**	**71.4**	**61.6**
1998						
January	57.1	62.2	66.3	65.8	62.3	51.0
February	55.5	60.3	63.5	63.4	60.1	49.5
March	53.1	57.8	61.6	62.0	58.0	47.2
April	54.9	59.1	61.6	63.8	59.3	49.3
May	54.0	58.1	61.9	63.9	59.0	48.2
June	50.8	55.3	59.1	60.5	55.8	44.8
July	49.7	54.7	57.9	58.0	54.6	43.4
August	48.6	53.2	56.2	57.7	53.4	42.2
September	51.5	55.9	58.1	60.4	55.8	46.2

[a] Includes low-sulfur diesel fuel only.
[b] All end-user sales not included in the other end-user categories shown, e.g., sales to agricultural customers or utilities.

Notes: The 4th quarter of 1993 was a transitional period between the predecessor EIA-782 survey system and the revised EIA-782 survey sytem. The revised survey system contains additional product and sales categories, which may not be consistent with categories derived from the predecessor survey system. Beginning January 1994 all data are from the revised survey system and are consistent.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual.*

Sources: Energy Information Administration Forms EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report."

Table 17. U.S. No. 2 Diesel Fuel Prices by Sulfur Content and Sales Type

(Cents per Gallon Excluding Taxes)

Year Month	Low-Sulfur Diesel Fuel						High-Sulfur Diesel Fuel				
	Sales to End Users					Sales for Resale	Sales to End Users				Sales for Resale
	Commercial/ Institutional Consumers	Industrial Consumers	Through Retail Outlets	Other End Users[a]	Average		Commercial/ Institutional Consumers	Industrial Consumers	Other End Users[a]	Average	
1994	**59.1**	**66.0**	**67.3**	**67.4**	**64.2**	**54.2**	**55.3**	**62.9**	**64.6**	**59.8**	**51.9**
1995	**59.8**	**66.3**	**67.0**	**68.4**	**64.5**	**55.1**	**56.8**	**63.6**	**66.7**	**61.4**	**52.4**
1996											
January	62.7	68.1	69.9	69.7	67.1	57.5	59.9	66.9	68.8	64.1	55.1
February	64.2	70.1	70.7	71.2	68.3	59.3	61.1	67.8	69.6	65.2	56.9
March	68.7	74.6	75.1	75.3	72.7	63.6	64.2	71.6	73.6	68.7	59.9
April	76.7	82.7	82.6	84.5	80.8	71.8	71.4	78.1	80.8	75.9	65.8
May	74.4	82.6	81.2	83.4	79.1	68.4	70.4	76.6	78.3	74.2	63.2
June	66.5	75.7	74.5	76.7	72.0	60.4	63.5	70.5	73.3	68.2	57.7
July	67.0	74.4	73.2	75.8	71.4	61.4	63.4	71.0	73.9	68.2	58.3
August	71.1	78.0	75.8	79.6	74.8	66.1	67.0	74.3	76.2	71.2	63.1
September	77.0	84.5	81.7	85.1	80.7	72.5	74.3	80.9	82.7	78.3	70.9
October	81.0	87.0	86.4	89.1	84.9	76.3	76.6	84.6	86.9	81.6	74.0
November	79.4	85.4	86.7	87.6	84.0	74.6	76.3	83.5	86.8	81.0	71.9
December	77.8	84.0	85.5	84.9	82.4	72.2	74.8	82.2	84.9	79.3	70.3
1996	**72.3**	**79.1**	**78.8**	**80.6**	**76.7**	**67.3**	**68.7**	**75.9**	**78.4**	**73.2**	**63.9**
1997											
January	76.6	82.9	84.0	84.0	81.2	71.1	73.5	80.8	83.5	78.0	69.4
February	74.8	81.7	81.8	82.5	79.3	68.9	71.3	77.5	81.7	75.4	66.4
March	69.1	74.8	76.3	77.2	73.8	64.0	66.8	71.7	77.1	70.7	60.8
April	67.8	74.1	75.4	77.4	72.9	63.2	65.6	71.0	77.4	70.6	60.5
May	66.4	72.0	74.4	76.4	71.9	61.8	64.9	70.5	76.2	69.8	59.1
June	63.1	68.6	71.9	73.9	69.1	57.6	62.2	67.7	73.1	66.8	56.1
July	61.8	67.5	70.2	71.9	67.6	56.9	61.8	66.6	71.5	66.0	55.2
August	64.5	69.9	71.7	74.4	69.7	59.9	63.9	68.4	72.8	67.6	58.0
September	63.6	70.4	71.1	74.3	69.0	58.8	63.1	68.1	73.3	67.3	57.9
October	67.3	72.4	73.7	76.9	71.9	62.9	66.7	71.0	76.2	70.9	61.0
November	67.5	72.2	74.0	76.3	71.9	63.0	67.0	71.1	75.0	70.2	59.9
December	62.9	67.3	71.0	71.5	67.9	56.7	61.5	67.8	70.1	65.2	54.8
1997	**67.0**	**72.2**	**74.3**	**76.2**	**71.9**	**61.9**	**65.8**	**70.8**	**75.4**	**69.8**	**60.2**
1998											
January	57.5	61.7	66.3	65.5	62.9	51.4	56.3	62.8	66.3	60.3	49.1
February	55.6	59.5	63.5	63.3	60.5	49.9	55.4	61.1	63.5	58.9	47.9
March	53.2	57.4	61.6	61.9	58.5	47.5	52.8	58.2	62.1	56.4	45.2
April	54.9	58.7	61.6	63.6	59.4	49.7	54.9	59.6	64.1	58.8	46.8
May	53.9	58.1	61.9	63.8	59.1	48.8	54.4	58.1	64.0	58.5	45.5
June	50.7	54.4	59.1	60.5	56.1	45.3	50.9	56.3	60.5	55.2	42.4
July	49.5	54.0	57.9	58.0	54.8	43.8	50.0	55.6	58.0	53.7	41.6
August	48.4	53.3	56.2	57.4	53.6	42.4	48.9	53.1	58.2	52.5	40.6
September	51.6	56.0	58.1	60.5	56.0	46.6	51.2	55.8	60.3	55.0	44.1

[a] All end-user sales not included in the other end-user categories shown, e.g., sales to agricultural customers or utilities.

Notes: The 4th quarter of 1993 was a transitional period between the predecessor EIA-782 survey system and the revised EIA-782 survey sytem. The revised survey system contains additional product and sales categories, which may not be consistent with categories derived from the predecessor survey system. Beginning January 1994 all data are from the revised survey system and are consistent.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.

Sources: Energy Information Administration Forms EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report."

Table 18. Prices of No. 2 Distillate to Residences by PAD District and Selected States

(Cents per Gallon Excluding Taxes)

Year Month	U.S. Average	PAD District I								
		Average	CT	ME	MA	NH	RI	VT	DE	DC
1978	**49.0**	**–**	**50.1**	**48.6**	**48.8**	**50.3**	**50.7**	**50.8**	**47.8**	**50.7**
1979	**70.4**	**–**	**72.0**	**68.8**	**70.9**	**72.5**	**72.8**	**72.5**	**68.2**	**74.2**
1980	**97.4**	**–**	**98.3**	**96.3**	**97.8**	**100.4**	**101.1**	**101.5**	**95.4**	**102.6**
1981	**119.4**	**–**	**121.7**	**120.4**	**121.3**	**123.7**	**123.8**	**125.4**	**117.3**	**127.4**
1982	**116.0**	**–**	**118.3**	**115.5**	**117.6**	**117.4**	**120.1**	**120.1**	**111.3**	**124.5**
1983	**107.8**	**109.0**	**109.1**	**102.8**	**109.1**	**104.1**	**110.5**	**112.9**	**106.0**	**117.0**
1984	**109.1**	**111.3**	**112.1**	**103.9**	**111.6**	**108.4**	**111.4**	**111.9**	**109.6**	**118.7**
1985	**105.3**	**106.8**	**108.0**	**99.7**	**107.0**	**102.4**	**106.7**	**107.7**	**104.6**	**114.3**
1986	**83.6**	**86.2**	**89.0**	**74.4**	**82.1**	**75.9**	**82.8**	**86.6**	**85.0**	**93.1**
1987	**80.3**	**81.4**	**83.4**	**74.7**	**80.6**	**76.5**	**82.5**	**81.1**	**79.3**	**91.8**
1988	**81.3**	**82.7**	**85.3**	**77.7**	**82.1**	**78.2**	**83.6**	**82.6**	**80.1**	**91.6**
1989	**90.0**	**91.7**	**92.9**	**89.4**	**92.6**	**89.3**	**93.9**	**90.5**	**88.2**	**98.6**
1990	**106.3**	**108.1**	**109.8**	**98.9**	**108.4**	**102.8**	**108.6**	**107.0**	**105.8**	**107.8**
1991	**101.9**	**104.1**	**106.2**	**96.0**	**103.0**	**91.6**	**99.9**	**101.9**	**99.7**	**112.2**
1992	**93.4**	**94.9**	**94.7**	**87.1**	**92.5**	**85.6**	**91.2**	**92.1**	**92.3**	**105.7**
1993	**91.1**	**92.1**	**91.9**	**82.6**	**89.7**	**82.8**	**89.3**	**90.4**	**89.9**	**104.5**
1994	**88.4**	**89.4**	**89.0**	**81.8**	**87.0**	**79.2**	**88.5**	**87.6**	**89.4**	**100.0**
1995	**86.7**	**87.5**	**86.4**	**78.7**	**84.4**	**77.9**	**87.4**	**85.3**	**87.0**	**101.0**
1996										
January	94.6	96.1	94.5	93.0	92.0	89.1	94.9	92.6	94.7	111.7
February	95.9	97.5	96.2	93.2	93.8	90.8	95.6	93.7	94.4	112.9
March	99.1	100.6	99.6	96.7	99.3	93.8	99.7	97.3	96.1	117.7
April	101.5	102.7	102.1	98.7	101.5	96.5	98.8	100.3	100.7	115.9
May	97.8	98.1	96.8	95.4	95.9	93.6	94.9	98.8	98.0	109.7
June	91.0	91.3	88.8	90.1	87.9	87.2	88.7	92.2	91.9	102.5
July	87.9	88.0	84.9	87.5	87.5	83.6	87.7	88.5	91.0	97.3
August	88.1	88.2	84.0	89.5	89.0	85.1	88.3	89.0	91.0	99.2
September	94.5	94.4	92.5	96.4	93.1	91.9	96.6	94.4	95.3	106.2
October	102.6	103.5	103.0	101.1	103.0	99.1	104.0	100.7	103.1	120.9
November	105.4	106.1	105.0	103.4	103.7	99.7	104.5	101.9	105.9	125.7
December	107.5	108.5	108.1	105.1	105.9	101.6	106.4	103.6	106.7	129.2
1996	**98.9**	**100.0**	**98.6**	**97.2**	**97.6**	**94.0**	**98.6**	**96.9**	**98.4**	**117.8**
1997										
January	107.9	109.0	108.7	105.2	106.4	102.2	106.9	104.4	106.5	130.9
February	105.1	106.0	105.2	102.2	103.4	101.0	104.5	103.5	104.2	127.0
March	101.6	102.5	99.3	94.3	97.7	98.6	100.6	103.1	99.4	122.1
April	99.2	100.2	97.6	90.9	95.9	95.2	99.6	100.4	99.1	W
May	96.3	97.1	93.4	90.6	93.0	91.9	97.3	97.7	95.0	108.6
June	92.3	93.0	89.9	88.0	89.1	89.1	94.1	92.9	89.8	99.9
July	88.3	88.8	83.7	86.7	87.5	85.6	91.8	91.1	87.3	99.9
August	86.9	86.7	84.5	85.7	84.7	85.3	91.0	92.7	87.8	W
September	88.5	88.7	85.5	87.1	87.0	86.3	91.2	91.7	87.8	96.6
October	92.1	92.5	89.0	90.2	89.4	88.2	94.6	93.1	88.1	W
November	94.1	94.6	91.4	92.3	90.7	88.6	95.4	94.7	92.0	W
December	93.8	94.5	91.7	91.0	89.7	88.5	94.6	94.1	94.3	W
1997	**98.4**	**99.2**	**96.3**	**94.3**	**96.0**	**94.2**	**99.0**	**98.7**	**98.0**	**117.6**
1998										
January	92.5	93.6	91.4	88.7	88.8	87.4	93.4	92.9	92.5	111.0
February	91.5	92.7	90.0	85.7	87.6	86.7	92.6	91.7	91.9	110.0
March	89.6	90.8	88.6	83.0	86.6	84.4	90.2	92.2	90.6	104.9
April	87.6	88.5	85.7	81.6	83.4	81.3	88.9	89.1	88.5	100.3
May	84.8	85.8	83.2	80.3	81.8	79.4	87.2	86.9	81.7	NA
June	81.1	82.1	78.1	78.6	78.4	75.6	84.4	84.3	79.9	89.8
July	77.6	78.3	74.2	76.0	76.1	70.5	83.3	81.5	74.1	84.0
August	75.5	76.1	71.4	74.3	74.0	68.5	78.8	80.9	74.5	85.6
September	77.2	77.8	73.1	74.4	74.1	70.8	79.6	80.5	73.0	84.6

See footnotes at end of table.

Table 18. Prices of No. 2 Distillate to Residences by PAD District and Selected States

(Cents per Gallon Excluding Taxes) — Continued

Year Month	PAD District I (Continued)						PAD District II			
	MD	NJ	NY	PA	VA	WV	Average	IL	IN	MI
1978	**49.2**	**49.6**	**50.1**	**48.8**	**49.1**	**46.2**	**–**	**46.5**	**48.5**	**47.9**
1979	**70.1**	**71.0**	**71.2**	**69.8**	**70.4**	**65.1**	**–**	**68.8**	**72.7**	**70.9**
1980	**97.9**	**97.9**	**98.2**	**96.4**	**98.5**	**92.2**	**–**	**95.8**	**99.6**	**97.8**
1981	**121.4**	**121.5**	**123.2**	**118.1**	**120.5**	**115.0**	**–**	**114.9**	**118.5**	**118.3**
1982	**117.1**	**117.4**	**120.5**	**113.7**	**117.7**	**109.3**	**–**	**110.9**	**114.3**	**113.9**
1983	**110.3**	**107.9**	**112.1**	**105.8**	**108.7**	**101.0**	**102.0**	**100.4**	**100.7**	**106.4**
1984	**113.5**	**111.0**	**115.5**	**107.9**	**110.5**	**102.1**	**101.7**	**100.1**	**103.1**	**105.0**
1985	**108.8**	**105.9**	**111.3**	**102.3**	**106.3**	**98.0**	**99.4**	**97.5**	**99.1**	**102.1**
1986	**91.4**	**90.2**	**91.1**	**81.4**	**86.6**	**74.6**	**72.7**	**NA**	**74.8**	**81.0**
1987	**86.6**	**84.3**	**85.2**	**76.9**	**79.5**	**76.4**	**74.8**	**79.8**	**75.4**	**77.5**
1988	**87.0**	**84.8**	**86.3**	**77.8**	**80.5**	**74.2**	**74.3**	**77.6**	**75.4**	**77.5**
1989	**93.8**	**91.8**	**95.8**	**85.1**	**87.0**	**83.0**	**81.9**	**80.9**	**83.2**	**85.3**
1990	**111.9**	**108.8**	**112.5**	**102.6**	**110.6**	**99.1**	**97.8**	**96.1**	**99.3**	**100.9**
1991	**108.4**	**104.0**	**111.3**	**99.7**	**101.1**	**93.4**	**90.8**	**92.7**	**91.8**	**94.2**
1992	**100.0**	**93.9**	**102.8**	**89.0**	**92.8**	**86.4**	**82.9**	**87.7**	**81.2**	**87.2**
1993	**98.1**	**92.4**	**100.1**	**86.3**	**89.3**	**85.6**	**83.3**	**84.4**	**81.0**	**87.2**
1994	**95.0**	**89.5**	**96.6**	**85.7**	**85.3**	**80.9**	**80.8**	**78.4**	**81.2**	**86.3**
1995	**93.6**	**88.8**	**95.5**	**82.6**	**84.4**	**81.5**	**80.9**	**78.5**	**81.6**	**86.0**
1996										
January	103.9	97.8	102.9	92.3	91.3	90.7	84.4	84.4	85.6	89.6
February	104.1	100.5	104.1	93.1	92.8	93.8	85.7	85.8	86.4	91.2
March	106.4	103.5	106.6	95.9	93.6	95.8	89.4	88.7	90.7	97.0
April	105.8	105.4	109.0	97.1	95.4	97.0	93.4	90.4	93.5	101.0
May	104.4	98.2	105.2	92.9	91.7	91.4	92.6	89.9	93.0	99.6
June	97.3	91.8	101.4	83.9	88.2	89.9	86.3	80.6	86.2	94.6
July	93.7	89.7	97.2	79.4	88.5	88.6	85.9	78.9	85.6	92.2
August	93.7	90.6	93.4	82.0	89.1	88.9	86.0	83.0	87.4	92.5
September	99.3	97.3	99.1	88.9	92.6	94.9	92.2	87.1	92.8	98.6
October	108.1	105.7	107.9	99.4	98.6	101.1	96.8	92.4	96.6	102.6
November	111.8	108.8	111.6	102.2	102.2	104.6	100.7	96.8	102.4	106.4
December	114.9	111.1	114.4	104.0	104.3	104.3	100.5	98.1	100.8	106.4
1996	**106.3**	**102.4**	**106.3**	**95.3**	**95.2**	**96.0**	**91.3**	**89.3**	**91.2**	**97.7**
1997										
January	117.0	111.3	114.7	104.2	105.5	103.8	99.7	98.8	100.9	105.6
February	115.0	108.4	112.0	102.2	102.6	101.2	97.6	93.3	97.0	104.4
March	108.1	104.6	111.5	97.7	100.4	98.1	93.3	90.2	94.6	NA
April	105.6	102.5	109.7	95.0	96.7	95.7	90.6	83.4	NA	91.7
May	101.9	99.9	107.9	92.4	89.9	92.9	90.1	79.9	88.4	90.7
June	98.0	96.9	103.9	87.8	87.8	90.6	87.3	79.7	84.0	88.3
July	96.1	90.5	100.0	82.1	85.9	87.4	83.1	78.4	79.7	84.9
August	93.8	89.6	92.9	80.7	85.2	85.0	84.4	81.2	83.6	87.4
September	94.5	90.7	94.5	82.8	85.2	87.5	84.7	77.4	80.2	88.3
October	97.8	94.8	100.6	85.9	90.3	88.3	87.2	82.6	84.0	88.9
November	100.3	97.2	101.6	89.5	91.8	92.2	88.4	81.6	85.0	93.6
December	100.9	97.8	101.7	89.9	92.6	93.6	85.8	82.1	81.8	88.8
1997	**105.8**	**102.9**	**106.6**	**94.9**	**94.8**	**96.2**	**90.9**	**86.3**	**86.4**	**94.2**
1998										
January	100.4	96.2	101.4	89.2	92.1	91.0	82.5	80.3	79.7	85.9
February	98.7	95.4	100.8	88.5	91.4	88.9	80.6	79.1	78.8	85.0
March	96.8	92.6	98.3	86.3	89.6	88.6	79.4	76.9	77.9	83.3
April	93.1	91.3	97.1	84.0	88.4	86.8	79.0	73.6	77.0	81.8
May	89.0	89.2	95.0	82.1	83.8	82.1	76.3	69.4	73.2	79.9
June	85.8	83.6	92.1	75.7	82.4	79.9	74.2	66.4	72.1	79.3
July	81.2	78.7	89.0	70.1	81.2	73.5	72.7	70.5	69.7	76.5
August	79.4	76.8	83.8	69.9	79.8	72.7	70.8	NA	70.6	74.5
September	81.7	80.0	85.9	71.7	81.6	72.8	72.8	66.3	72.4	77.2

See footnotes at end of table.

Table 18. Prices of No. 2 Distillate to Residences by PAD District and Selected States

(Cents per Gallon Excluding Taxes) — Continued

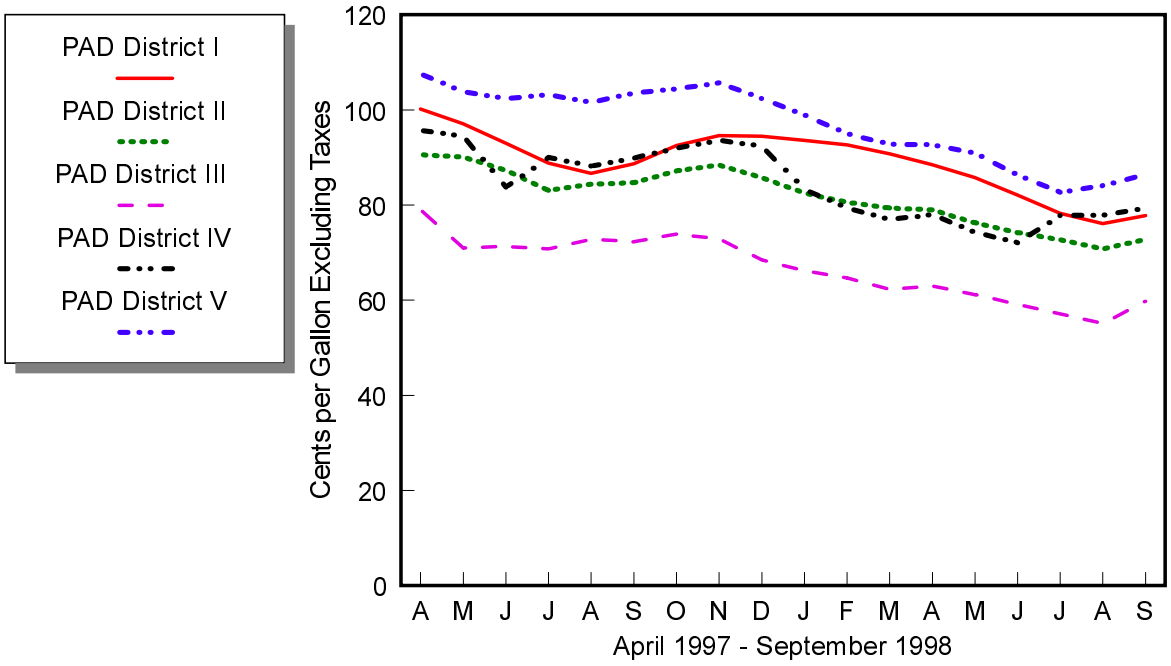
Year Month	PAD District II (Continued)			PAD District III	PAD District IV		PAD District V			
	MN	OH	WI	Average	Average	ID	Average	AK	OR	WA
1978	**47.8**	**47.4**	**44.7**	**–**	**–**	**43.6**	**–**	**53.2**	**45.8**	**48.6**
1979	**72.4**	**68.6**	**67.3**	**–**	**–**	**62.1**	**–**	**68.2**	**68.0**	**69.7**
1980	**99.9**	**91.9**	**91.5**	**–**	**–**	**91.6**	**–**	**97.8**	**97.3**	**100.8**
1981	**118.4**	**113.2**	**109.1**	**–**	**–**	**110.4**	**–**	**118.0**	**111.4**	**116.5**
1982	**115.1**	**110.2**	**107.8**	**–**	**–**	**110.4**	**–**	**117.4**	**111.6**	**117.6**
1983	**103.1**	**101.3**	**101.2**	**87.4**	**94.2**	**101.8**	**106.4**	**108.8**	**103.6**	**109.0**
1984	**104.1**	**102.1**	**101.0**	**97.9**	**96.8**	**98.5**	**101.5**	**106.9**	**99.3**	**102.6**
1985	**101.9**	**99.7**	**98.3**	**92.5**	**96.1**	**97.2**	**100.9**	**108.3**	**97.1**	**101.1**
1986	**79.2**	**77.7**	**75.6**	**67.4**	**70.6**	**73.8**	**78.1**	**94.9**	**70.4**	**77.5**
1987	**74.6**	**74.7**	**75.1**	**63.7**	**69.6**	**68.8**	**77.8**	**86.5**	**72.5**	**79.5**
1988	**73.5**	**74.7**	**73.9**	**62.8**	**69.1**	**68.8**	**76.9**	**86.9**	**70.9**	**78.5**
1989	**82.4**	**81.6**	**81.1**	**70.7**	**78.6**	**77.8**	**86.6**	**96.4**	**80.2**	**87.4**
1990	**101.4**	**98.1**	**94.2**	**85.5**	**97.0**	**97.4**	**102.6**	**110.1**	**97.0**	**102.9**
1991	**91.1**	**91.0**	**89.5**	**78.7**	**92.4**	**95.1**	**99.8**	**105.0**	**93.3**	**101.6**
1992	**82.6**	**83.6**	**81.6**	**71.3**	**84.8**	**85.7**	**92.1**	**94.1**	**87.6**	**94.0**
1993	**83.2**	**84.0**	**82.3**	**75.4**	**86.0**	**86.2**	**96.8**	**96.1**	**91.8**	**99.9**
1994	**80.6**	**81.2**	**81.1**	**71.4**	**78.6**	**78.9**	**90.9**	**86.5**	**88.7**	**95.0**
1995	**80.1**	**80.8**	**81.2**	**69.0**	**84.4**	**83.9**	**90.6**	**83.4**	**89.4**	**96.2**
1996										
January	82.7	85.5	83.3	70.9	88.0	87.2	92.5	84.0	90.1	99.7
February	83.7	87.7	83.9	72.4	88.0	86.8	92.5	83.3	90.9	99.6
March	86.7	91.6	87.1	75.5	87.8	86.6	93.1	84.5	90.0	101.1
April	91.4	95.3	91.5	82.2	96.4	95.7	101.3	90.0	101.0	109.7
May	92.0	91.3	92.2	76.5	99.7	97.1	107.9	97.9	108.6	116.7
June	85.5	86.8	88.4	70.3	86.9	91.0	103.4	96.2	NA	112.8
July	84.3	86.5	88.6	68.2	86.9	92.3	96.2	92.7	96.4	103.8
August	86.2	82.2	87.8	75.7	88.8	98.4	94.3	92.3	94.3	99.8
September	91.8	92.8	91.1	84.0	98.8	101.3	105.5	95.7	109.1	115.8
October	97.8	98.2	95.6	87.1	97.9	97.8	106.8	96.7	108.6	116.4
November	102.4	100.8	98.7	NA	102.4	98.1	107.4	96.9	107.5	115.3
December	100.4	101.5	98.9	87.4	98.3	95.4	106.7	96.4	105.1	114.9
1996	**90.9**	**92.1**	**89.9**	**77.5**	**94.2**	**93.3**	**99.9**	**90.9**	**98.9**	**108.0**
1997										
January	99.2	100.7	98.3	85.5	96.6	94.9	108.5	97.1	105.8	117.6
February	96.9	98.4	96.8	79.7	97.1	94.5	109.0	97.5	106.7	118.8
March	91.7	92.6	96.7	82.0	97.3	100.6	109.1	98.7	107.5	116.6
April	89.7	92.4	92.9	79.0	95.7	98.3	107.6	97.5	106.1	114.9
May	89.1	90.1	93.4	71.0	94.5	98.4	103.8	96.4	104.6	109.1
June	87.4	86.8	90.8	71.3	83.8	92.3	102.4	96.0	100.2	112.2
July	84.8	83.1	86.7	70.8	90.0	90.3	103.2	97.5	96.9	NA
August	86.0	81.7	86.5	72.8	88.2	90.5	101.6	96.4	99.2	108.8
September	84.9	84.3	88.0	72.3	89.9	91.2	103.6	96.6	101.5	110.9
October	87.1	88.2	89.6	73.9	92.0	93.6	104.4	97.7	102.0	111.9
November	87.0	89.3	89.7	72.9	93.6	94.3	105.7	98.0	102.6	112.8
December	84.9	85.8	88.6	68.5	92.4	93.4	102.4	96.3	98.5	109.0
1997	**90.2**	**91.3**	**93.3**	**75.5**	**93.7**	**95.3**	**106.0**	**97.2**	**103.2**	**114.0**
1998										
January	81.5	81.9	85.4	66.2	83.3	85.0	98.9	NA	93.6	105.7
February	78.1	80.6	83.7	64.7	79.4	80.8	95.0	87.1	89.3	102.4
March	77.2	79.3	82.5	62.3	77.0	78.6	92.8	86.2	85.8	99.6
April	77.8	79.2	81.5	63.0	78.0	78.3	92.7	86.6	86.2	99.9
May	73.1	77.8	80.5	61.2	74.3	74.4	90.9	86.1	85.2	98.9
June	69.3	74.4	78.8	W	72.1	69.6	86.3	85.8	81.8	91.5
July	69.3	72.6	77.8	W	77.8	77.9	82.7	81.8	80.6	87.0
August	68.2	70.1	75.5	55.1	77.9	79.7	84.1	82.5	82.4	88.5
September	70.5	72.3	74.9	59.8	79.4	78.4	86.5	83.4	83.7	91.3

Dash (–) = No data reported.
NA = Not available.
W = Withheld to avoid disclosure of individual company data.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the Petroleum Marketing Annual.

Sources: Energy Information Administration Forms EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report," January 1983 forward; Form EIA-9A, "No. 2 Distillate Price Monitoring Report," source for backcast estimates prior to January 1983.

Figure 6. U.S. No. 2 Distillate Prices to Residences by PAD District



Source: Energy Information Administration, Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report" and Form EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report."

Table 19. U.S. Refiner Residual Fuel Oil Prices

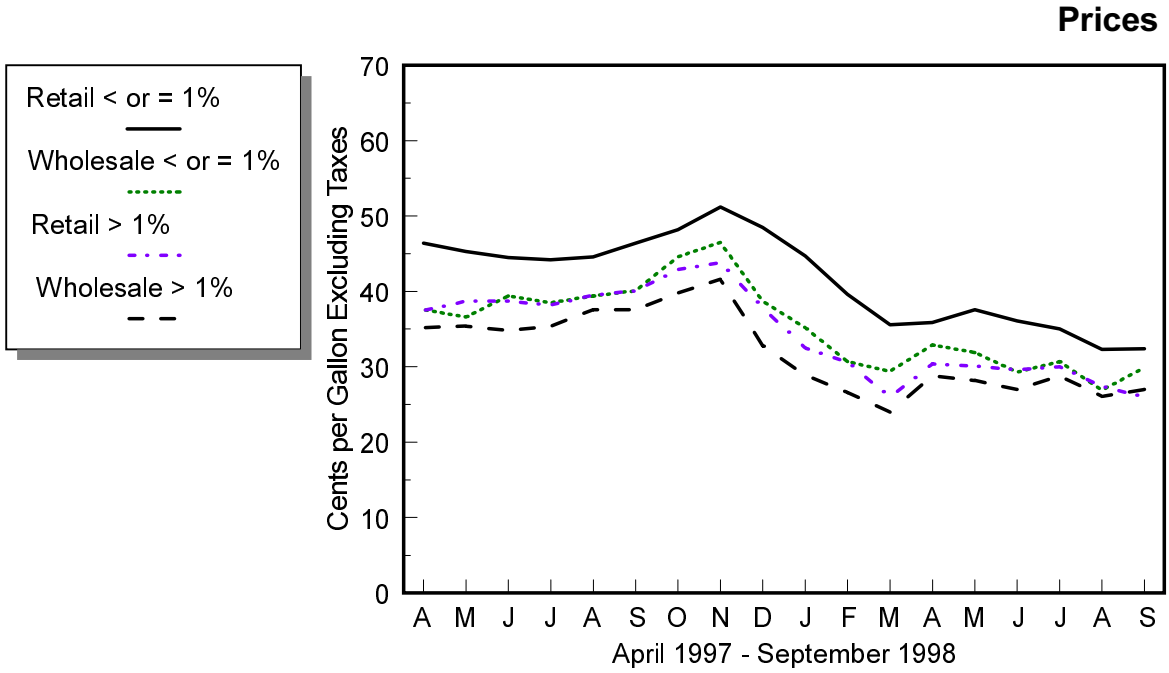
(Cents per Gallon Excluding Taxes)

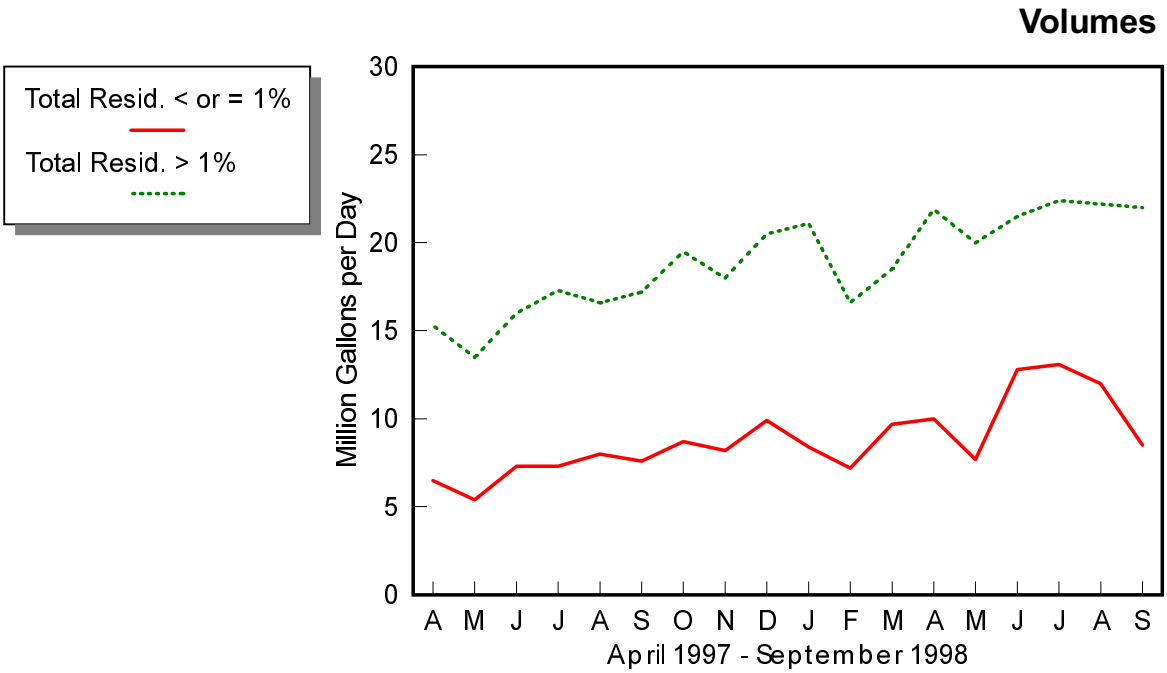
Year Month	Sulfur Less Than or Equal to 1 Percent		Sulfur Greater Than 1 Percent		Average	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
1978	**31.4**	**29.3**	**27.5**	**24.5**	**29.8**	**26.3**
1979	**46.8**	**45.0**	**38.9**	**36.6**	**43.6**	**39.9**
1980	**67.5**	**60.8**	**52.3**	**47.9**	**60.7**	**52.8**
1981	**82.9**	**74.8**	**67.3**	**62.2**	**75.6**	**66.3**
1982	**74.7**	**69.5**	**61.1**	**57.2**	**67.6**	**61.2**
1983	**69.5**	**64.3**	**61.1**	**59.1**	**65.1**	**60.9**
1984	**72.0**	**68.5**	**65.9**	**63.9**	**68.7**	**65.4**
1985	**64.4**	**61.0**	**58.2**	**56.0**	**61.0**	**57.7**
1986	**37.2**	**32.8**	**31.7**	**28.9**	**34.3**	**30.5**
1987	**44.7**	**41.2**	**39.6**	**36.2**	**42.3**	**38.5**
1988	**37.2**	**33.3**	**30.0**	**27.1**	**33.4**	**30.0**
1989	**43.6**	**40.7**	**34.4**	**33.1**	**38.5**	**36.0**
1990	**50.5**	**47.2**	**40.0**	**37.2**	**44.4**	**41.3**
1991	**40.2**	**36.4**	**30.6**	**29.2**	**34.0**	**31.4**
1992	**38.9**	**35.1**	**31.2**	**28.6**	**33.6**	**30.8**
1993	**39.7**	**33.7**	**30.3**	**25.6**	**33.7**	**29.3**
1994	**40.1**	**34.5**	**33.0**	**28.7**	**35.2**	**31.7**
1995	**43.6**	**38.3**	**37.7**	**33.8**	**39.2**	**36.3**
1996						
January	54.8	49.9	44.7	38.0	47.9	45.2
February	53.2	42.6	41.7	36.8	44.9	40.1
March	51.9	47.1	42.1	36.0	44.7	42.0
April	51.1	48.3	43.0	39.9	45.1	43.7
May	51.1	45.0	41.4	36.9	43.3	41.0
June	47.3	40.4	38.4	35.0	40.8	37.4
July	48.6	41.4	38.7	37.3	41.0	38.9
August	49.8	41.9	39.5	37.2	42.0	39.0
September	51.2	42.6	43.2	40.3	44.9	41.2
October	54.7	47.8	47.1	43.1	48.5	45.0
November	57.0	49.2	48.0	44.5	49.7	46.3
December	58.6	51.4	47.5	43.0	49.9	46.0
1996	**52.6**	**45.6**	**43.3**	**38.9**	**45.5**	**42.0**
1997						
January	58.7	46.2	46.3	39.2	49.2	42.9
February	54.6	43.7	41.8	35.4	45.0	39.4
March	49.3	39.6	37.6	34.1	40.3	35.8
April	46.4	37.6	37.5	35.2	39.7	36.1
May	45.3	36.6	38.7	35.4	40.3	35.8
June	44.5	39.4	38.7	34.8	40.1	36.7
July	44.2	38.5	38.2	35.4	39.6	36.6
August	44.6	39.4	39.5	37.6	40.7	38.3
September	46.4	40.1	40.1	37.6	41.4	38.7
October	48.2	44.6	42.9	39.8	43.9	42.0
November	51.2	46.5	43.8	41.6	45.7	43.5
December	48.5	38.7	37.8	32.8	40.2	35.6
1997	**48.8**	**41.5**	**40.4**	**36.6**	**42.3**	**38.7**
1998						
January	44.7	35.2	32.5	28.9	35.3	31.1
February	39.6	30.7	30.6	26.6	32.7	28.2
March	35.6	29.4	26.0	24.0	28.6	26.4
April	35.9	32.9	30.4	28.8	31.7	30.3
May	37.6	31.9	30.1	28.2	31.8	29.4
June	36.1	29.3	29.6	27.0	31.3	27.9
July	35.0	30.7	30.0	28.8	31.4	29.6
August	32.3	26.9	27.4	26.1	28.7	26.5
September	32.4	29.9	26.0	27.0	27.6	27.9

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual.*

Sources: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," January 1983 forward; Form EIA-460, "Petroleum Industry Monthly Report for Product Prices," source for backcast estimates prior to January 1983.

Figure 7. U.S. Refiner Residual Fuel Oil Prices and Volumes





Source: Energy Information Administration, Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

Table 20. U.S. Refiner Residual Fuel Oil Volumes

(Million Gallons per Day)

Year Month	Sulfur Less Than or Equal to 1 Percent		Sulfur Greater Than 1 Percent		Total	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
1983	**13.4**	**7.2**	**14.9**	**12.9**	**28.3**	**20.2**
1984	**15.1**	**6.7**	**17.8**	**14.6**	**32.9**	**21.3**
1985	**11.4**	**7.0**	**13.8**	**12.9**	**25.2**	**19.9**
1986	**15.2**	**7.9**	**16.4**	**10.7**	**31.6**	**18.6**
1987	**15.1**	**7.8**	**13.9**	**9.1**	**29.0**	**16.9**
1988	**14.2**	**8.7**	**15.9**	**10.3**	**30.2**	**18.9**
1989	**13.4**	**7.9**	**17.0**	**13.1**	**30.4**	**21.0**
1990	**11.1**	**7.4**	**14.9**	**10.5**	**25.9**	**17.9**
1991	**8.6**	**5.6**	**15.5**	**12.2**	**24.0**	**17.8**
1992	**7.1**	**5.2**	**15.3**	**10.0**	**22.4**	**15.2**
1993	**6.2**	**5.7**	**11.1**	**6.9**	**17.2**	**12.6**
1994	**4.2**	**6.6**	**9.3**	**6.2**	**13.5**	**12.8**
1995	**2.9**	**7.7**	**8.7**	**5.9**	**11.6**	**13.6**
1996						
January	4.6	10.0	9.8	6.7	14.4	16.7
February	4.2	8.6	10.9	6.4	15.0	15.0
March	3.3	9.0	9.4	7.7	12.7	16.7
April	3.0	6.1	8.8	7.4	11.8	13.5
May	2.0	6.5	8.7	6.2	10.7	12.7
June	3.0	6.4	8.3	7.8	11.3	14.1
July	2.7	5.5	9.0	8.6	11.7	14.1
August	3.0	6.1	9.3	9.5	12.3	15.6
September	2.3	4.3	8.7	7.5	10.9	11.8
October	2.4	4.5	11.1	6.6	13.5	11.2
November	2.8	4.3	11.6	7.0	14.3	11.3
December	3.5	4.4	12.2	8.0	15.7	12.3
1996	**3.1**	**6.3**	**9.8**	**7.4**	**12.9**	**13.8**
1997						
January	3.6	7.3	11.4	6.5	15.0	13.8
February	3.8	6.5	11.3	6.9	15.1	13.5
March	3.2	3.0	10.7	6.5	13.8	9.5
April	2.8	3.7	8.5	6.8	11.3	10.5
May	2.7	2.7	8.2	5.3	10.9	8.0
June	3.0	4.3	9.4	6.6	12.4	10.9
July	3.2	4.1	10.4	6.9	13.7	11.1
August	2.9	5.1	9.4	7.2	12.3	12.3
September	2.6	5.0	10.3	6.9	12.9	11.8
October	2.9	5.8	12.5	7.0	15.4	12.7
November	3.6	4.6	10.8	7.2	14.4	11.8
December	3.9	6.0	13.6	6.9	17.5	12.9
1997	**3.2**	**4.8**	**10.6**	**6.7**	**13.7**	**11.6**
1998						
January	3.6	4.8	11.9	9.2	15.5	14.0
February	3.1	4.1	10.4	6.2	13.5	10.2
March	4.2	5.5	11.3	7.2	15.5	12.7
April	3.5	6.5	11.0	10.9	14.4	17.4
May	3.0	4.7	10.2	9.8	13.2	14.5
June	3.7	6.8	10.2	11.3	13.8	18.2
July	4.5	8.6	11.6	10.8	16.0	19.4
August	4.8	7.2	13.0	9.2	17.8	16.5
September	3.2	5.3	9.8	12.2	13.0	17.4

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual.* Totals may not equal the sum of the components due to rounding.

Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

Crude Oil Prices

Table 21. Domestic Crude Oil First Purchase Prices

(Dollars per Barrel)

Year Month	U.S. Average		PAD District I				PAD District II						
	U.S. Average	Less AK North Slope	Average	NY	PA	WV	Average	IL	IN	KS	KY	MI	NE
1978	**9.00**	**9.56**	**12.25**	**W**	**14.72**	**14.48**	**11.91**	**13.81**	**13.70**	**13.20**	**13.73**	**11.86**	**11.40**
1979	**12.64**	**13.01**	**14.30**	**W**	**24.13**	**23.35**	**18.33**	**23.49**	**23.28**	**21.57**	**22.55**	**14.47**	**18.13**
1980	**21.59**	**22.65**	**22.66**	**W**	**37.46**	**36.92**	**30.12**	**35.78**	**35.91**	**34.20**	**34.98**	**23.54**	**30.60**
1981	**31.77**	**33.71**	**35.22**	**W**	**36.03**	**35.63**	**35.63**	**36.03**	**36.07**	**35.80**	**35.90**	**35.74**	**35.32**
1982	**28.52**	**30.43**	**31.77**	**30.91**	**30.77**	**29.98**	**31.65**	**31.69**	**31.66**	**30.79**	**31.19**	**31.80**	**30.98**
1983	**26.19**	**28.00**	**28.32**	**28.19**	**28.28**	**27.27**	**29.17**	**29.12**	**29.06**	**28.45**	**28.60**	**28.93**	**28.58**
1984	**25.88**	**27.59**	**27.76**	**27.70**	**27.71**	**26.90**	**28.62**	**28.76**	**28.72**	**27.99**	**28.24**	**28.54**	**27.83**
1985	**24.09**	**25.74**	**25.88**	**25.19**	**25.05**	**24.35**	**25.94**	**26.90**	**26.82**	**25.33**	**26.20**	**26.16**	**25.42**
1986	**12.51**	**14.13**	**14.76**	**16.03**	**15.77**	**14.68**	**14.30**	**14.70**	**14.55**	**14.02**	**14.20**	**14.61**	**13.70**
1987	**15.40**	**16.83**	**16.52**	**17.40**	**17.43**	**16.56**	**17.42**	**17.53**	**17.49**	**17.37**	**17.19**	**17.63**	**17.08**
1988	**12.58**	**13.97**	**14.21**	**W**	**15.26**	**14.35**	**14.65**	**14.79**	**14.78**	**14.55**	**14.58**	**14.92**	**14.08**
1989	**15.86**	**17.13**	**17.16**	**W**	**18.15**	**17.18**	**18.04**	**18.36**	**18.37**	**18.18**	**18.36**	**18.06**	**17.36**
1990	**20.03**	**21.57**	**22.06**	**23.32**	**23.00**	**22.16**	**22.88**	**23.36**	**23.46**	**23.21**	**23.20**	**22.92**	**21.94**
1991	**16.54**	**18.16**	**19.01**	**19.67**	**19.48**	**W**	**19.58**	**20.19**	**20.20**	**19.84**	**19.84**	**19.88**	**18.78**
1992	**15.99**	**17.38**	**18.52**	**19.05**	**19.01**	**18.09**	**18.63**	**19.26**	**19.27**	**18.50**	**18.75**	**18.99**	**17.51**
1993	**14.25**	**15.31**	**17.28**	**17.20**	**17.53**	**16.76**	**16.27**	**16.97**	**16.97**	**15.95**	**16.51**	**16.79**	**14.90**
1994	**13.19**	**14.30**	**16.23**	**15.94**	**16.13**	**15.68**	**15.05**	**15.76**	**15.66**	**14.71**	**15.33**	**15.43**	**13.60**
1995	**14.62**	**15.72**	**17.18**	**16.74**	**16.93**	**16.53**	**16.39**	**16.95**	**16.88**	**16.19**	**16.43**	**16.63**	**15.18**
1996													
January	15.43	16.44	17.83	17.72	17.63	17.02	17.05	17.49	17.26	17.03	16.78	17.19	15.91
February	15.54	16.43	17.70	17.73	17.91	16.91	17.04	17.64	17.38	17.01	17.06	17.04	15.79
March	17.63	18.68	19.77	19.39	19.86	18.23	19.41	19.99	19.74	19.48	19.34	19.56	18.04
April	19.58	20.62	21.80	21.57	21.73	20.38	21.51	21.98	21.78	21.64	21.39	21.63	20.25
May	17.94	18.56	20.17	20.24	20.44	19.52	19.46	19.92	19.70	19.52	19.25	19.44	18.94
June	16.94	17.77	19.50	19.58	19.83	18.85	18.70	19.27	19.00	18.90	18.65	18.86	18.27
July	17.63	18.50	19.97	19.81	20.05	18.69	19.55	19.98	19.76	19.77	19.43	19.62	19.06
August	18.29	19.17	20.44	20.49	20.57	18.99	20.32	20.71	20.47	20.42	20.12	20.39	19.72
September	19.93	21.03	22.48	22.53	22.63	21.17	22.19	22.64	22.39	22.38	22.01	21.98	21.99
October	21.09	22.20	23.20	23.71	23.85	22.18	23.22	23.71	23.46	23.48	23.03	23.15	22.78
November	20.20	21.11	23.12	22.38	W	20.92	21.95	22.92	23.17	22.15	22.47	21.93	21.38
December	21.34	22.41	23.16	23.60	23.76	22.05	23.33	23.81	23.55	23.56	23.06	23.28	22.79
1996	**18.46**	**19.41**	**20.82**	**20.95**	**20.99**	**19.59**	**20.33**	**20.86**	**20.67**	**20.47**	**20.24**	**20.32**	**19.57**
1997													
January	21.76	22.68	23.97	23.71	23.95	22.31	23.44	23.94	23.66	23.72	23.11	23.52	22.93
February	19.38	19.89	22.68	20.95	21.06	19.63	20.55	21.11	20.81	20.61	19.62	21.01	19.88
March	17.85	18.35	20.14	19.70	19.68	18.39	19.08	19.59	19.15	19.16	18.30	19.13	18.50
April	16.64	17.21	18.95	18.35	18.04	17.35	18.00	18.51	18.11	18.09	17.36	17.79	17.40
May	17.24	18.04	18.82	18.56	18.64	17.99	18.95	19.50	19.12	18.93	18.30	18.98	18.37
June	15.90	16.50	17.96	16.93	16.98	16.25	17.17	17.88	17.59	17.09	16.51	17.12	16.55
July	15.91	16.70	17.88	17.14	17.05	16.49	17.54	18.19	17.90	17.46	16.90	17.51	16.94
August	16.21	17.07	18.09	17.24	17.09	16.52	17.71	18.38	18.00	17.63	17.09	17.56	17.11
September	16.44	17.08	17.80	16.97	16.71	16.22	17.58	18.24	17.80	17.54	17.07	17.58	17.74
October	17.68	18.56	19.11	W	18.34	17.45	19.16	19.68	19.29	19.11	18.44	19.15	18.52
November	16.84	17.48	18.59	W	W	W	18.03	18.60	18.21	17.89	17.30	18.31	17.29
December	15.06	15.70	16.99	16.85	17.13	15.12	16.32	16.96	16.53	16.14	15.66	17.26	15.47
1997	**17.24**	**17.92**	**19.25**	**18.49**	**18.79**	**17.56**	**18.60**	**19.11**	**18.73**	**18.63**	**17.97**	**18.75**	**18.10**
1998													
January	13.48	13.91	15.41	15.59	15.84	14.06	14.67	15.29	15.01	14.60	14.01	14.85	13.84
February	12.16	13.00	14.65	14.70	15.24	13.22	14.00	14.53	14.19	13.90	13.31	14.18	13.15
March	11.53	11.86	13.85	W	14.21	12.42	12.93	13.60	13.29	12.85	12.41	13.08	12.09
April	11.64	12.05	13.97	W	14.63	12.94	13.26	13.73	13.45	13.18	12.65	13.39	12.47
May	11.49	11.83	13.68	13.99	14.19	12.44	12.67	13.28	12.98	12.58	12.06	12.72	11.86
June	10.00	10.57	12.65	W	13.15	11.29	11.27	11.84	11.65	11.18	10.84	11.46	10.36
July	10.46	11.02	12.78	W	13.37	11.49	11.70	12.19	11.86	11.56	11.17	11.96	10.77
August	10.18	10.66	12.20	W	12.66	10.96	11.20	11.69	11.45	10.96	10.54	11.19	10.22
September	11.28	11.97	13.36	W	14.04	12.21	12.73	13.10	12.74	12.50	12.04	12.72	11.79

See footnotes at end of table.

Table 21. Domestic Crude Oil First Purchase Prices

(Dollars per Barrel) — Continued

Year Month	PAD District II (Continued)				PAD District III							
	ND	OH	OK	SD	Average	AL	AR	LA	MS	NM	TX	Federal Offshore Gulf
1978	**9.75**	**13.80**	**11.30**	**12.16**	**9.37**	**10.52**	**10.63**	**9.03**	**7.91**	**10.17**	**9.29**	**9.86**
1979	**13.64**	**22.79**	**17.53**	**15.35**	**12.33**	**11.97**	**14.72**	**11.42**	**10.74**	**14.33**	**12.65**	**11.23**
1980	**26.42**	**36.64**	**29.25**	**28.81**	**21.24**	**20.57**	**24.17**	**19.87**	**20.85**	**24.06**	**21.84**	**18.87**
1981	**35.63**	**36.11**	**35.43**	**35.55**	**35.00**	**35.80**	**33.69**	**35.45**	**30.47**	**35.04**	**35.06**	**35.07**
1982	**31.89**	**30.90**	**32.04**	**31.63**	**31.92**	**32.32**	**30.12**	**32.44**	**29.04**	**31.82**	**31.77**	**32.61**
1983	**29.27**	**28.14**	**29.67**	**29.10**	**29.45**	**30.07**	**28.28**	**30.02**	**26.76**	**29.26**	**29.35**	**29.77**
1984	**28.39**	**27.71**	**29.11**	**28.36**	**29.03**	**29.39**	**28.15**	**29.67**	**27.26**	**28.69**	**28.87**	**29.36**
1985	**25.32**	**25.11**	**26.28**	**25.79**	**26.91**	**25.77**	**25.79**	**27.22**	**25.51**	**26.84**	**26.80**	**27.33**
1986	**13.54**	**15.51**	**14.47**	**13.81**	**14.89**	**13.91**	**14.54**	**15.32**	**13.63**	**14.93**	**14.73**	**15.27**
1987	**16.76**	**17.42**	**17.62**	**16.96**	**17.57**	**16.80**	**17.23**	**17.97**	**16.78**	**17.57**	**17.55**	**17.54**
1988	**13.85**	**15.19**	**14.86**	**14.04**	**14.75**	**13.86**	**14.41**	**15.22**	**13.98**	**14.78**	**14.71**	**14.71**
1989	**17.12**	**18.06**	**18.23**	**17.33**	**17.86**	**17.27**	**17.34**	**18.39**	**17.00**	**17.86**	**17.81**	**17.83**
1990	**21.94**	**23.09**	**22.95**	**22.32**	**22.42**	**22.09**	**21.56**	**23.04**	**21.06**	**22.44**	**22.37**	**22.40**
1991	**18.80**	**19.59**	**19.59**	**19.21**	**19.23**	**19.05**	**18.06**	**20.14**	**17.65**	**19.35**	**19.04**	**19.41**
1992	**18.02**	**18.96**	**18.74**	**18.19**	**18.37**	**18.22**	**17.33**	**19.00**	**16.70**	**18.55**	**18.32**	**18.35**
1993	**15.42**	**17.44**	**16.47**	**15.39**	**16.23**	**16.21**	**15.03**	**16.90**	**14.59**	**16.44**	**16.19**	**16.15**
1994	**14.08**	**15.98**	**15.33**	**14.24**	**14.97**	**15.00**	**13.74**	**15.60**	**13.45**	**15.32**	**14.98**	**14.75**
1995	**15.58**	**16.67**	**16.68**	**15.53**	**16.38**	**16.35**	**14.84**	**17.06**	**14.76**	**16.74**	**16.38**	**16.17**
1996												
January	16.23	17.30	17.32	16.48	17.20	17.34	15.50	18.09	15.65	17.38	17.07	17.22
February	16.13	17.30	17.34	16.33	17.07	17.18	15.49	17.95	15.74	17.30	16.98	16.98
March	18.50	18.60	19.74	18.68	19.34	18.79	17.82	19.97	17.94	19.78	19.38	19.08
April	20.46	20.76	21.90	20.92	21.32	20.78	19.89	21.65	20.13	21.94	21.51	20.78
May	18.50	19.87	19.74	18.76	19.35	19.81	18.01	19.57	17.94	20.16	19.43	18.98
June	17.82	19.11	18.84	18.06	18.58	18.71	17.13	18.98	17.11	19.29	18.73	18.07
July	18.68	18.77	19.82	18.93	19.39	19.51	17.93	19.88	18.12	20.15	19.55	18.82
August	19.37	19.34	20.73	19.57	20.18	20.42	18.73	20.81	18.91	20.76	20.26	19.74
September	21.28	21.52	22.54	21.44	22.10	22.13	20.87	22.66	20.86	22.62	22.22	21.64
October	22.38	22.60	23.46	22.56	23.33	23.49	21.98	23.94	21.92	23.82	23.31	23.11
November	20.99	21.33	22.16	21.17	22.14	22.30	20.67	22.81	20.65	22.53	21.97	22.24
December	22.32	22.35	23.68	22.61	23.41	22.96	21.93	24.09	21.98	23.74	23.32	23.38
1996	**19.46**	**19.96**	**20.60**	**19.56**	**20.29**	**20.24**	**18.67**	**20.88**	**18.95**	**20.79**	**20.31**	**20.03**
1997												
January	22.29	22.59	23.82	22.78	23.58	23.05	22.36	24.30	22.03	23.97	23.48	23.56
February	19.49	19.92	20.94	19.72	20.71	20.70	19.36	21.40	19.15	21.01	20.49	20.90
March	18.15	18.64	19.43	18.31	19.03	18.83	18.02	19.52	17.51	19.47	18.99	18.96
April	17.18	17.51	18.37	17.30	17.83	17.53	17.04	18.38	16.43	18.39	17.86	17.53
May	18.13	18.18	19.35	18.17	18.85	18.76	17.93	19.35	17.37	19.26	18.96	18.45
June	16.30	16.49	17.59	16.48	17.23	17.19	16.19	17.66	15.53	17.58	17.24	17.14
July	16.60	16.61	18.03	16.65	17.56	17.31	16.52	17.98	15.88	17.89	17.58	17.44
August	16.79	16.71	18.23	W	17.84	17.56	16.70	18.27	16.05	18.13	17.86	17.76
September	16.71	16.33	18.06	W	17.80	17.63	16.62	18.27	15.92	18.01	17.79	17.77
October	18.30	17.81	19.68	W	19.25	19.05	18.11	19.88	17.51	19.51	19.24	19.10
November	17.16	16.90	18.53	W	18.28	18.17	17.05	18.75	16.32	18.50	18.19	18.40
December	15.34	15.36	16.78	15.87	16.44	16.42	15.24	17.00	14.64	16.57	16.33	16.56
1997	**17.63**	**17.77**	**19.05**	**17.80**	**18.68**	**18.58**	**17.58**	**19.22**	**16.94**	**19.01**	**18.64**	**18.63**
1998												
January	13.69	14.28	15.16	W	14.70	14.73	13.57	15.23	13.14	14.90	14.70	14.59
February	13.05	13.35	14.48	13.03	13.85	13.84	12.91	14.33	12.24	14.16	13.95	13.60
March	11.92	12.58	13.41	W	12.68	12.54	11.83	13.03	10.92	13.08	12.80	12.44
April	12.32	13.12	13.72	W	12.72	12.60	12.12	12.99	11.04	13.33	13.04	12.19
May	11.68	12.63	13.13	W	12.61	12.41	11.50	13.04	10.50	12.76	12.62	12.57
June	10.29	11.60	11.72	W	11.27	11.15	10.16	11.58	8.93	11.26	11.24	11.37
July	10.91	11.70	12.06	12.69	11.61	11.40	10.48	11.97	9.29	11.66	11.74	11.45
August	10.37	11.20	11.69	W	11.19	11.10	9.90	11.60	8.89	11.28	11.34	11.00
September	11.87	12.41	13.30	W	12.59	12.43	11.36	13.15	10.45	12.77	12.74	12.28

See footnotes at end of table.

Table 21. Domestic Crude Oil First Purchase Prices

(Dollars per Barrel) — Continued

Year Month	PAD District IV					PAD District V				
	Average	CO	MT	UT	WY	Average	AK North Slope	AK Other	CA	Federal Offshore California
1978	**9.50**	**10.84**	**9.04**	**9.98**	**9.16**	**6.60**	**5.21**	**5.45**	**8.58**	**6.10**
1979	**11.98**	**13.28**	**12.03**	**11.41**	**11.73**	**11.17**	**10.57**	**6.22**	**12.78**	**8.06**
1980	**21.29**	**22.91**	**20.53**	**19.79**	**21.34**	**19.09**	**16.87**	**10.25**	**23.87**	**16.28**
1981	**33.38**	**35.69**	**34.69**	**34.14**	**32.30**	**24.79**	**23.23**	**30.15**	**26.80**	**24.56**
1982	**30.14**	**31.56**	**31.25**	**30.50**	**29.37**	**21.84**	**19.92**	**27.74**	**24.58**	**23.37**
1983	**27.81**	**28.92**	**28.80**	**28.12**	**27.19**	**19.66**	**17.69**	**23.59**	**22.61**	**20.54**
1984	**27.18**	**28.09**	**28.07**	**27.21**	**26.73**	**19.52**	**17.91**	**24.37**	**22.09**	**20.41**
1985	**24.78**	**25.64**	**25.29**	**23.98**	**24.67**	**19.11**	**16.98**	**22.46**	**22.14**	**20.08**
1986	**13.24**	**13.98**	**13.58**	**13.33**	**12.94**	**8.53**	**6.45**	**13.13**	**11.90**	**9.48**
1987	**16.77**	**17.71**	**16.57**	**17.22**	**16.45**	**11.89**	**10.83**	**15.48**	**13.92**	**11.82**
1988	**13.85**	**14.83**	**13.84**	**14.24**	**13.47**	**9.28**	**8.43**	**12.92**	**10.97**	**9.41**
1989	**17.37**	**18.86**	**17.03**	**18.63**	**16.73**	**12.71**	**12.00**	**16.17**	**14.06**	**12.64**
1990	**21.68**	**23.16**	**21.61**	**22.61**	**21.04**	**16.15**	**15.23**	**21.16**	**17.81**	**16.21**
1991	**18.21**	**19.95**	**18.17**	**19.99**	**17.33**	**12.30**	**11.57**	**15.36**	**13.72**	**11.33**
1992	**17.27**	**19.04**	**17.08**	**19.39**	**16.38**	**12.32**	**11.73**	**15.56**	**13.55**	**10.78**
1993	**15.30**	**16.59**	**14.70**	**17.48**	**14.59**	**11.23**	**10.84**	**14.11**	**12.11**	**9.20**
1994	**14.27**	**15.44**	**13.43**	**16.38**	**13.67**	**10.53**	**9.77**	**13.87**	**12.12**	**9.32**
1995	**15.90**	**16.67**	**14.93**	**17.71**	**15.50**	**12.08**	**11.12**	**15.28**	**14.00**	**10.81**
1996										
January	16.73	17.26	15.73	18.37	16.38	12.93	12.13	15.67	14.55	11.23
February	16.66	17.28	15.68	18.29	16.28	13.40	12.76	15.43	14.87	11.63
March	19.01	19.58	18.03	20.65	18.62	15.18	14.23	17.40	17.11	13.58
April	20.86	21.72	20.13	22.79	20.29	16.93	16.08	19.69	18.71	15.13
May	19.12	19.60	17.92	20.69	18.85	15.73	15.82	17.58	15.96	13.17
June	18.38	18.84	17.20	19.81	18.15	14.49	14.24	17.19	15.23	12.40
July	19.23	19.87	18.15	20.49	18.98	14.85	14.62	17.96	15.53	12.67
August	19.82	20.49	18.77	20.99	19.59	15.34	15.29	18.20	15.71	13.06
September	21.69	22.35	20.63	22.70	21.48	16.59	16.30	20.07	17.31	14.58
October	22.82	23.40	21.87	23.74	22.63	17.79	17.45	21.19	18.50	16.25
November	21.39	22.28	20.51	21.94	21.19	17.42	17.27	19.99	17.93	15.47
December	22.66	23.70	21.88	23.06	22.42	18.33	17.82	21.67	19.36	17.09
1996	**19.85**	**20.47**	**18.89**	**21.10**	**19.56**	**15.73**	**15.32**	**18.43**	**16.72**	**13.82**
1997										
January	22.80	23.72	21.85	23.49	22.56	19.18	18.82	22.76	20.04	17.40
February	19.73	20.80	18.59	20.57	19.45	17.50	17.72	19.83	17.52	14.71
March	18.32	19.55	17.51	18.84	17.99	16.04	16.09	18.49	16.39	13.47
April	17.16	18.39	16.39	17.76	16.81	14.81	14.68	17.14	15.48	12.34
May	18.11	19.42	17.22	18.72	17.74	14.73	14.45	16.98	15.61	12.45
June	16.35	17.64	15.61	17.24	15.90	13.83	13.69	15.12	14.54	11.38
July	16.69	18.01	15.92	17.46	16.29	13.29	12.97	15.19	14.17	11.20
August	16.99	18.15	16.18	17.83	16.61	13.64	12.94	15.65	14.92	12.30
September	16.81	18.09	15.99	17.58	16.42	14.44	14.12	15.74	15.28	12.57
October	18.34	19.74	17.64	19.22	17.89	15.24	14.53	17.20	16.60	14.19
November	17.05	18.38	16.39	18.26	16.51	14.71	14.53	16.62	15.30	12.70
December	15.42	16.72	15.37	16.44	14.71	13.01	12.80	W	13.66	11.19
1997	**17.79**	**19.03**	**17.00**	**18.56**	**17.41**	**15.06**	**14.84**	**17.43**	**15.78**	**12.97**
1998										
January	13.60	15.10	13.72	14.84	12.79	11.54	11.82	W	11.53	9.11
February	12.96	14.35	13.10	14.17	12.16	9.46	9.15	W	10.27	7.53
March	11.84	13.35	12.08	12.93	10.97	9.67	10.29	W	9.25	6.52
April	12.31	13.52	12.40	13.47	11.54	9.72	10.08	W	9.57	6.85
May	11.93	12.99	11.82	13.08	11.19	9.66	10.17	11.27	9.39	6.53
June	10.36	11.59	10.40	11.49	9.63	8.01	7.74	10.87	8.64	6.03
July	10.92	12.05	11.01	12.05	10.20	8.63	8.25	11.83	9.42	6.75
August	10.25	11.20	10.20	11.60	9.58	8.70	8.39	11.51	9.39	6.74
September	11.82	12.91	11.74	12.96	11.19	9.36	8.69	12.90	10.41	7.84

W = Withheld to avoid disclosure of individual company data.

Notes: The actual domestic average price represents the average price at the lease (or wellhead) at which domestic crude oil is purchased.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual.*

Sources: Energy Information Administration, Form ERA-182, "Domestic Crude Oil First Purchaser's Report," January 1978 through December 1982; Form EIA-182, "Domestic Crude Oil First Purchase Report," January 1983 to present.

Table 22. Domestic Crude Oil First Purchase Prices for Selected Crude Streams

(Dollars per Barrel)

Year Month	Alaska North Slope	California Midway-Sunset	California Kern River	California Wilmington	Louisiana South Mix	North Dakota Sweet	West Texas Intermediate	West Texas Sour	Wyoming Sour
1994	**9.77**	**11.79**	**11.65**	**12.47**	**15.71**	**14.54**	**15.65**	**14.16**	**11.87**
1995	**11.12**	**13.37**	**13.59**	**14.70**	**17.14**	**16.02**	**17.03**	**15.52**	**14.06**
1996									
January	12.13	13.92	14.11	14.90	18.26	16.67	17.68	16.15	15.13
February	12.76	14.33	14.48	15.05	18.06	16.60	17.62	16.09	14.94
March	14.23	16.57	16.75	17.27	20.05	18.95	19.99	18.57	17.30
April	16.08	17.97	18.12	18.80	21.69	20.85	22.21	20.63	19.05
May	15.82	14.88	15.19	15.83	19.58	18.95	20.18	18.61	17.43
June	14.24	14.11	14.41	15.18	18.92	18.27	19.41	17.90	16.74
July	14.62	14.34	14.69	15.70	19.80	19.11	20.23	18.72	17.49
August	15.29	14.38	14.73	16.85	20.76	19.78	20.94	19.44	18.20
September	16.30	15.85	16.23	17.22	22.66	21.67	22.85	21.46	20.08
October	17.45	17.15	17.50	19.19	23.85	22.81	23.97	22.48	21.19
November	17.27	16.72	17.03	17.95	22.83	21.36	22.65	21.19	19.63
December	17.82	18.19	18.49	19.41	24.11	22.71	24.07	22.35	20.83
1996	**15.32**	**15.70**	**15.97**	**17.13**	**20.89**	**19.82**	**20.96**	**19.49**	**18.16**
1997									
January	18.82	18.86	19.05	20.06	24.17	22.90	24.09	22.62	20.87
February	17.72	15.98	16.29	17.30	21.31	19.92	21.15	19.54	17.52
March	16.09	15.25	15.40	16.39	19.56	18.59	19.73	17.84	15.92
April	14.68	14.23	14.61	15.61	18.31	17.56	18.66	16.74	14.84
May	14.45	14.86	14.99	16.23	19.39	18.44	19.71	18.02	15.58
June	13.69	13.64	13.72	14.94	17.60	16.55	17.85	16.30	13.83
July	12.97	13.36	13.56	13.94	17.96	16.87	18.19	16.77	14.34
August	12.94	14.20	14.59	W	18.23	17.08	18.42	17.06	14.61
September	14.12	14.58	14.71	W	18.26	16.94	18.30	17.07	14.43
October	14.53	15.96	16.09	W	19.88	18.55	19.83	18.55	15.78
November	14.53	14.50	14.36	W	18.78	17.38	18.77	17.28	14.14
December	12.80	12.81	12.96	W	17.03	15.55	16.78	15.49	12.13
1997	**14.84**	**14.88**	**15.02**	**16.44**	**19.22**	**17.96**	**19.27**	**17.77**	**15.39**
1998									
January	11.82	10.52	10.64	W	15.24	13.88	15.35	13.69	10.37
February	9.15	8.97	9.11	W	14.36	13.22	14.68	12.93	9.53
March	10.29	7.79	8.06	W	12.99	12.11	13.52	11.67	8.47
April	10.08	8.14	8.40	W	12.87	12.52	13.74	11.99	8.89
May	10.17	8.16	8.37	W	12.97	11.88	13.31	11.76	8.45
June	7.74	7.50	7.62	W	11.56	10.49	11.92	10.45	7.07
July	8.25	8.23	8.51	W	11.93	11.12	12.30	11.06	7.73
August	8.39	8.23	8.46	W	11.53	10.70	11.81	10.73	7.23
September	8.69	9.19	9.41	W	13.00	12.18	13.25	12.02	8.99

W = Withheld to avoid disclosure of individual company data.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual.*

Source: Energy Information Administration, Form EIA-182, "Domestic Crude Oil First Purchase Report."

Table 23. Domestic Crude Oil First Purchase Prices by API Gravity

(Dollars per Barrel)

Year Month	20.0 or Less	20.1 to 25.0	25.1 to 30.0	30.1 to 35.0	35.1 to 40.0	40.1 or Greater
1994	**11.83**	**12.83**	**9.79**	**14.72**	**14.79**	**15.62**
1995	**13.26**	**14.64**	**11.14**	**16.15**	**16.24**	**16.98**
1996						
January	13.80	15.60	12.16	17.04	16.97	17.65
February	14.16	15.49	12.78	16.84	16.94	17.60
March	16.32	17.85	14.25	19.10	19.24	19.92
April	17.84	19.70	16.11	20.89	21.23	22.08
May	15.22	17.88	15.84	18.93	19.47	20.16
June	14.46	17.22	14.26	18.16	18.72	19.37
July	14.77	17.92	14.65	18.97	19.54	20.20
August	14.97	18.54	15.32	19.82	20.12	20.92
September	16.62	20.40	16.34	21.77	22.04	22.81
October	17.90	21.45	17.50	22.96	23.11	23.96
November	17.21	20.14	17.29	21.91	21.86	22.64
December	18.66	21.36	17.86	23.08	23.13	23.99
1996	**16.01**	**18.61**	**15.35**	**19.97**	**20.23**	**20.91**
1997						
January	19.26	21.50	18.85	23.25	23.42	24.07
February	16.63	18.35	17.74	20.36	20.62	21.19
March	15.75	16.90	16.11	18.69	19.23	19.66
April	14.50	15.70	14.70	17.43	18.10	18.63
May	15.41	16.33	14.48	18.35	18.81	19.65
June	14.16	14.71	13.74	16.85	17.13	17.81
July	13.85	15.15	13.00	17.23	17.39	18.14
August	14.86	15.50	12.98	17.54	17.68	18.37
September	15.08	15.36	14.14	17.55	17.58	18.22
October	16.47	16.79	14.56	18.98	19.11	19.74
November	15.08	15.21	14.56	18.00	17.99	18.71
December	13.50	13.60	12.82	16.16	16.29	16.80
1997	**15.44**	**16.27**	**14.86**	**18.36**	**18.62**	**19.25**
1998						
January	11.26	11.65	11.84	14.46	14.64	15.28
February	9.75	10.69	9.19	13.61	13.91	14.58
March	8.78	9.71	10.31	12.41	12.72	13.44
April	9.09	10.11	10.10	12.45	13.06	13.62
May	9.00	9.86	10.18	12.49	12.53	13.20
June	8.30	8.40	7.77	11.13	11.09	11.82
July	9.09	9.23	8.28	11.54	11.61	12.21
August	9.04	8.72	8.41	11.15	11.19	11.72
September	10.06	10.35	8.72	12.50	12.59	13.19

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual.*

Source: Energy Information Administration, Form EIA-182, "Domestic Crude Oil First Purchase Report."

Table 24. F.O.B.[a] Costs of Imported Crude Oil by Selected Country

(Dollars per Barrel)

Year Month	Selected Countries							Persian Gulf[b]	Total OPEC[c]	Non OPEC
	Angola	Colombia	Mexico	Nigeria	Saudi Arabia	United Kingdom	Venezuela			
1978	**13.32**	**–**	**13.24**	**14.05**	**12.70**	**13.82**	**12.38**	**12.77**	**13.31**	**13.23**
1979	**19.85**	**–**	**20.27**	**21.69**	**17.28**	**21.70**	**16.90**	**18.77**	**19.88**	**20.92**
1980	**33.45**	**W**	**31.06**	**35.93**	**28.17**	**34.36**	**24.81**	**28.92**	**32.21**	**32.85**
1981	**35.55**	**–**	**33.01**	**38.31**	**32.60**	**36.06**	**28.95**	**33.00**	**35.17**	**35.12**
1982	**31.86**	**–**	**28.08**	**35.13**	**33.73**	**33.42**	**23.74**	**33.55**	**33.48**	**30.58**
1983	**28.14**	**–**	**25.20**	**29.81**	**27.53**	**29.91**	**21.48**	**27.70**	**28.46**	**27.20**
1984	**27.46**	**–**	**26.39**	**29.51**	**27.67**	**28.87**	**24.23**	**27.48**	**27.79**	**27.45**
1985	**26.30**	**–**	**25.33**	**28.04**	**22.04**	**27.64**	**23.64**	**23.31**	**25.67**	**25.96**
1986	**13.30**	**12.34**	**11.84**	**14.35**	**11.36**	**13.84**	**10.92**	**11.35**	**12.21**	**12.87**
1987	**17.27**	**17.84**	**16.36**	**18.47**	**15.12**	**18.28**	**15.08**	**15.97**	**16.43**	**16.99**
1988	**13.70**	**13.61**	**12.18**	**15.16**	**12.16**	**14.80**	**12.96**	**12.38**	**13.43**	**13.05**
1989	**17.66**	**17.89**	**15.96**	**18.31**	**16.29**	**17.89**	**16.09**	**16.61**	**17.06**	**16.72**
1990	**20.23**	**20.75**	**19.26**	**22.46**	**20.36**	**23.43**	**19.55**	**18.54**	**20.40**	**20.32**
1991	**18.47**	**18.49**	**15.37**	**20.29**	**14.62**	**20.81**	**14.91**	**15.22**	**16.99**	**16.77**
1992	**18.41**	**18.02**	**15.26**	**19.98**	**15.85**	**19.61**	**14.39**	**16.35**	**16.87**	**16.66**
1993	**16.23**	**15.87**	**13.74**	**17.79**	**13.77**	**16.64**	**12.46**	**14.21**	**14.78**	**14.65**
1994	**15.40**	**14.99**	**13.68**	**16.32**	**14.12**	**15.66**	**12.21**	**13.97**	**14.00**	**14.34**
1995	**16.58**	**16.73**	**15.64**	**17.40**	**W**	**16.94**	**13.86**	**W**	**15.36**	**16.02**
1996										
January	16.95	17.73	16.52	18.63	W	W	14.12	W	15.86	16.42
February	17.91	18.09	16.59	18.53	W	W	15.22	W	16.89	16.83
March	19.78	20.02	18.39	20.44	18.29	19.42	17.78	18.62	18.77	18.77
April	20.96	22.65	19.63	21.49	W	W	17.99	W	18.75	20.20
May	19.72	20.09	17.93	20.13	W	19.02	16.35	W	17.72	18.83
June	18.60	19.49	17.05	19.25	17.96	W	16.08	17.70	17.21	17.94
July	19.72	19.72	17.85	19.90	18.48	W	16.72	18.31	17.78	18.62
August	20.33	20.79	18.89	21.13	20.16	18.82	17.35	19.98	18.99	19.55
September	22.26	22.79	20.96	22.80	20.60	W	19.66	20.72	20.57	21.44
October	23.05	23.57	22.40	24.71	W	W	20.29	W	21.85	22.59
November	22.38	23.25	20.96	24.43	21.90	22.35	19.62	22.11	21.04	21.48
December	23.22	24.56	21.83	24.39	19.24	W	20.41	19.35	21.01	22.04
1996	**20.71**	**21.33**	**19.14**	**21.27**	**19.28**	**19.43**	**17.73**	**19.22**	**18.94**	**19.65**
1997										
January	23.20	24.14	21.09	24.52	17.37	W	19.35	17.37	20.37	21.93
February	21.35	21.12	18.57	21.53	W	W	16.68	W	17.96	19.71
March	18.66	19.41	17.00	19.02	W	–	15.50	W	16.49	17.68
April	17.05	17.87	15.94	17.97	15.82	W	14.81	15.95	15.92	16.44
May	18.25	17.92	16.84	18.99	15.60	19.03	15.27	15.67	16.27	17.33
June	17.84	16.87	15.70	18.22	15.26	18.09	14.66	15.11	15.61	16.36
July	17.72	17.72	15.99	19.12	15.24	17.40	14.99	15.33	16.04	16.65
August	17.96	18.42	16.29	18.98	16.89	18.17	15.33	16.47	16.37	16.96
September	18.15	18.52	16.02	19.35	15.33	18.44	15.25	16.15	16.51	16.99
October	19.33	19.52	17.51	20.03	W	W	15.81	W	16.32	18.15
November	18.54	18.24	16.04	19.11	W	W	14.39	W	15.00	17.02
December	16.58	17.18	13.79	17.39	W	W	12.51	W	13.31	14.97
1997	**18.81**	**18.84**	**16.73**	**19.46**	**15.17**	**18.59**	**15.33**	**15.26**	**16.27**	**17.52**
1998										
January	14.47	15.36	12.11	15.21	W	W	11.29	W	12.24	13.12
February	13.12	14.27	11.48	13.78	W	W	10.34	W	11.42	12.10
March	12.53	13.10	9.77	13.56	W	W	9.70	W	10.92	11.22
April	12.93	13.48	11.01	13.86	W	W	10.32	7.92	10.60	11.63
May	13.79	13.08	11.25	14.13	7.63	W	9.78	7.90	10.53	11.94
June	11.79	11.85	10.04	11.57	8.56	W	9.16	8.71	9.76	10.51
July	11.14	12.24	10.44	11.77	9.06	W	8.99	8.95	9.76	10.83
August	11.37	12.12	9.85	12.23	9.77	11.13	8.54	9.68	9.69	10.59
September	12.33	13.08	11.18	14.03	11.17	–	10.72	11.20	11.39	11.83

Dash (–) = No data reported.
W = Withheld to avoid disclosure of individual company data.
[a] Free on Board. See Glossary.
[b] Includes Baharain, Iran, Iraq, Kuwait, Neutral Zone, Qatar, Saudi Arabia, and United Arab Emirates.
[c] Includes Algeria, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates and Venezuela. In addition, it included Ecuador in 1978 through 1992 and Gabon in 1978 through 1995.

Notes: Values through 1980 reflect the month of reporting; values since then reflect the month of acquisition, which can be the month of loading, the month of landing, or sometime between those events. Prices for crude oil can be determined at a time other than the acquisition date. See the Explanatory Notes section for additional detail.

Notes: Values for the current 2 months are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual.*

Sources: Energy Information Administration, Form FEA-F701-M-0, "Transfer Pricing Report," January 1978 through December 1978; Form ERA-51, "Transfer Pricing Report," January 1979 through September 1982; Form EP-51, "Monthly Foreign Crude Oil Transaction Report," October 1982 through June 1984; Form EIA-856, "Monthly Foreign Crude Oil Acquisition Report," July 1984 to present.

Table 25. Landed Costs of Imported Crude Oil by Selected Country

(Dollars per Barrel)

Year Month	Selected Countries								Persian Gulf[a]	Total OPEC[b]	Non OPEC
	Angola	Canada	Colombia	Mexico	Nigeria	Saudi Arabia	United Kingdom	Venezuela			
1978	**14.07**	**14.41**	**–**	**13.56**	**14.88**	**13.94**	**14.53**	**12.84**	**14.01**	**14.34**	**14.38**
1979	**21.06**	**20.22**	**–**	**20.77**	**22.97**	**18.95**	**22.97**	**17.65**	**20.42**	**21.29**	**22.10**
1980	**34.76**	**30.11**	**W**	**31.77**	**37.15**	**29.80**	**35.68**	**25.92**	**30.59**	**33.56**	**33.99**
1981	**36.84**	**32.32**	**–**	**33.70**	**39.66**	**34.20**	**37.29**	**29.91**	**34.61**	**36.60**	**36.14**
1982	**33.08**	**27.15**	**–**	**28.63**	**36.16**	**34.99**	**34.25**	**24.93**	**34.94**	**34.81**	**31.47**
1983	**29.31**	**25.63**	**–**	**25.78**	**30.85**	**29.27**	**30.87**	**22.94**	**29.37**	**29.84**	**28.08**
1984	**28.49**	**26.56**	**–**	**26.85**	**30.36**	**29.20**	**29.45**	**25.19**	**29.07**	**29.06**	**28.14**
1985	**27.39**	**25.71**	**–**	**25.63**	**28.96**	**24.72**	**28.36**	**24.43**	**25.50**	**26.86**	**26.53**
1986	**14.09**	**13.43**	**12.85**	**12.17**	**15.29**	**12.84**	**14.63**	**11.52**	**12.92**	**13.46**	**13.52**
1987	**18.20**	**17.04**	**18.43**	**16.69**	**19.32**	**16.81**	**18.78**	**15.76**	**17.47**	**17.64**	**17.66**
1988	**14.48**	**13.50**	**14.47**	**12.58**	**15.88**	**13.37**	**15.82**	**13.66**	**13.51**	**14.18**	**13.96**
1989	**18.36**	**16.81**	**18.10**	**16.35**	**19.19**	**17.34**	**18.74**	**16.78**	**17.37**	**17.78**	**17.54**
1990	**21.51**	**20.48**	**22.34**	**19.64**	**23.33**	**21.82**	**22.65**	**20.31**	**20.55**	**21.23**	**20.98**
1991	**19.90**	**17.16**	**19.55**	**15.89**	**21.39**	**17.22**	**21.37**	**15.92**	**17.34**	**18.08**	**17.93**
1992	**19.36**	**17.04**	**18.46**	**15.60**	**20.78**	**17.48**	**20.63**	**15.13**	**17.58**	**17.81**	**17.67**
1993	**17.40**	**15.27**	**16.54**	**14.11**	**18.73**	**15.40**	**17.92**	**13.39**	**15.26**	**15.68**	**15.78**
1994	**16.36**	**14.83**	**15.80**	**14.09**	**17.21**	**15.11**	**16.64**	**13.12**	**15.00**	**15.08**	**15.29**
1995	**17.66**	**16.65**	**17.45**	**16.19**	**18.25**	**16.84**	**17.91**	**14.81**	**16.78**	**16.61**	**16.95**
1996											
January	18.16	16.07	18.55	16.95	19.65	17.98	18.49	15.12	17.86	17.41	17.23
February	18.82	16.33	18.82	17.07	19.47	18.76	19.39	16.02	18.81	18.06	17.58
March	20.85	18.55	20.57	18.95	21.25	19.59	19.25	18.63	19.87	19.81	19.42
April	21.41	21.10	23.37	20.23	22.32	20.55	20.76	19.14	20.48	20.26	21.11
May	20.88	20.16	21.04	18.67	21.17	19.55	21.22	17.42	19.44	19.17	19.97
June	19.62	19.20	20.08	17.75	20.11	18.92	20.40	17.14	18.79	18.64	19.00
July	20.70	19.72	20.62	18.55	20.85	19.77	19.79	17.55	19.58	19.15	19.54
August	21.58	20.44	21.47	19.51	21.95	20.70	20.56	18.22	20.52	20.16	20.44
September	23.40	21.85	23.47	21.59	23.40	21.81	21.69	20.37	21.80	21.66	22.23
October	23.94	22.53	24.42	22.84	25.57	22.91	23.12	20.89	22.77	22.78	23.30
November	23.47	21.33	23.81	21.22	25.19	22.66	24.10	20.40	22.64	22.15	22.31
December	24.48	21.32	25.20	22.06	25.42	21.93	24.23	21.23	22.04	22.22	22.73
1996	**21.86**	**19.94**	**22.02**	**19.64**	**21.95**	**20.49**	**20.88**	**18.59**	**20.45**	**20.14**	**20.47**
1997											
January	24.45	21.79	24.98	21.60	25.52	21.04	24.18	20.43	21.01	21.64	22.89
February	22.54	19.75	21.72	19.11	23.26	18.37	24.33	17.58	18.37	19.20	20.59
March	20.34	18.43	20.39	17.43	20.58	18.04	23.59	16.57	18.13	18.05	18.83
April	18.70	17.22	18.76	16.60	19.27	17.56	18.80	16.05	17.39	17.46	17.57
May	19.59	17.46	18.78	17.59	19.87	17.08	20.04	16.38	17.07	17.57	18.16
June	19.33	16.31	17.74	16.24	19.57	16.93	19.54	15.70	16.85	17.01	17.23
July	18.59	16.61	18.56	16.50	20.02	17.07	18.59	15.96	16.86	17.14	17.40
August	19.14	17.16	18.98	16.85	20.01	18.33	19.33	16.22	18.05	17.80	17.76
September	19.50	16.97	19.36	16.69	20.35	18.01	19.56	16.14	17.84	17.85	17.84
October	20.83	18.33	20.45	18.11	21.14	17.10	18.85	16.76	17.35	17.79	19.19
November	19.64	16.78	19.28	16.84	20.55	15.43	19.93	15.41	15.75	16.63	17.99
December	18.24	15.13	18.12	14.45	19.03	14.79	18.61	13.42	15.06	15.01	16.30
1997	**20.24**	**17.62**	**19.70**	**17.30**	**20.66**	**17.54**	**20.64**	**16.34**	**17.45**	**17.73**	**18.46**
1998											
January	16.14	13.25	16.39	12.69	17.00	13.43	W	12.30	13.49	13.89	14.29
February	14.52	12.18	15.37	12.12	15.32	13.05	15.63	11.28	13.01	12.98	13.24
March	14.06	11.57	13.84	10.37	14.71	12.28	14.82	10.66	12.38	12.44	12.35
April	14.25	11.42	14.17	11.65	14.67	11.31	15.19	11.16	11.53	11.98	12.67
May	14.92	11.28	13.75	11.76	14.91	10.69	14.52	10.49	10.75	11.68	12.81
June	12.98	10.87	12.45	10.59	13.31	10.69	12.58	9.92	10.64	11.07	11.47
July	12.44	11.28	12.73	10.95	12.88	11.02	W	9.78	10.94	11.06	11.74
August	12.65	11.17	12.84	10.33	13.20	11.12	12.89	9.33	11.06	10.96	11.59
September	13.70	12.75	13.65	11.60	14.58	12.13	13.31	11.34	12.20	12.29	12.78

Dash (–) = No data reported.
W = Withheld to avoid disclosure of individual company data.
a Includes Baharain, Iran, Iraq, Kuwait, Neutral Zone, Qatar, Saudi Arabia, and United Arab Emirates.
b Includes Algeria, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates and Venezuela. In addition, it included Ecuador in 1978 through 1992 and Gabon in 1978 through 1995.

Notes: Values through 1980 reflect the month of reporting; values since then reflect the month of acquisition, which can be the month of loading, the month of landing, or sometime between those events. Prices for crude oil can be determined at a time other than the acquisition date. See the Explanatory Notes section for additional detail.

Notes: Values for the current 2 months are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual.*

Sources: Energy Information Administration, Form FEA-F701-M-0, "Transfer Pricing Report," January 1978 through December 1978; Form ERA-51, "Transfer Pricing Report," January 1979 through September 1982; Form EP-51, "Monthly Foreign Crude Oil Transaction Report," October 1982 through June 1984; Form EIA-856, "Monthly Foreign Crude Oil Acquisition Report," July 1984 to present.

Table 26. F.O.B.[a] Costs of Imported Crude Oil by API Gravity

(Dollars per Barrel)

Year Month	20.0 or Less	20.1 to 25.0	25.1 to 30.0	30.1 to 35.0	35.1 to 40.0	40.1 to 45.0	45.1 or Greater
1978	**11.98**	**11.74**	**12.51**	**13.06**	**13.62**	**14.00**	**14.01**
1979	**14.43**	**18.54**	**19.91**	**19.54**	**21.24**	**21.65**	**19.77**
1980	**23.09**	**28.76**	**30.72**	**30.31**	**34.33**	**35.39**	**36.13**
1981	**26.70**	**31.20**	**33.61**	**34.38**	**36.85**	**38.42**	**38.59**
1982	**23.08**	**25.82**	**31.48**	**33.56**	**34.29**	**34.82**	**34.48**
1983	**21.77**	**24.27**	**27.38**	**29.04**	**29.74**	**30.10**	**30.12**
1984	**24.10**	**25.31**	**27.22**	**28.55**	**29.18**	**29.40**	**28.02**
1985	**23.45**	**24.27**	**24.86**	**26.46**	**27.43**	**27.79**	**26.90**
1986	**10.51**	**10.96**	**12.25**	**12.83**	**13.83**	**14.19**	**13.76**
1987	**15.21**	**15.37**	**15.76**	**17.24**	**17.99**	**18.03**	**17.37**
1988	**11.92**	**11.65**	**12.48**	**13.82**	**14.38**	**14.89**	**15.25**
1989	**14.00**	**14.89**	**16.95**	**17.50**	**18.09**	**18.23**	**18.05**
1990	**15.98**	**18.00**	**20.54**	**20.77**	**22.19**	**22.78**	**22.28**
1991	**11.91**	**13.72**	**16.33**	**17.67**	**20.15**	**19.69**	**20.85**
1992	**11.83**	**13.96**	**16.74**	**18.02**	**19.50**	**19.58**	**20.05**
1993	**11.33**	**12.22**	**15.14**	**15.44**	**17.04**	**17.53**	**17.61**
1994	**11.43**	**12.19**	**14.45**	**14.93**	**15.91**	**15.70**	**16.11**
1995	**13.35**	**13.93**	**16.14**	**16.19**	**17.25**	**17.30**	**17.32**
1996							
January	13.37	13.78	16.32	17.32	18.36	18.65	W
February	14.23	14.73	17.14	18.38	18.10	19.58	W
March	15.41	16.74	19.23	19.51	20.27	W	21.05
April	15.57	17.62	20.70	19.82	21.59	W	W
May	14.81	16.32	19.02	18.88	19.91	20.09	20.04
June	14.93	15.97	18.12	18.22	19.21	18.91	W
July	15.44	16.41	18.79	18.86	20.09	20.29	W
August	16.18	17.08	19.81	20.11	21.08	20.29	20.89
September	17.99	19.26	21.64	21.73	22.94	W	21.56
October	18.18	20.18	22.92	22.52	24.46	W	23.70
November	17.80	18.94	21.76	22.02	23.59	23.07	W
December	18.07	19.22	22.19	21.93	24.41	24.38	24.99
1996	**16.01**	**17.26**	**19.90**	**20.04**	**21.20**	**21.00**	**21.59**
1997							
January	17.17	18.43	22.68	21.89	24.25	24.48	24.44
February	13.75	16.25	20.20	19.27	21.61	21.61	W
March	13.39	14.96	17.91	17.53	19.58	21.01	19.69
April	13.11	14.50	16.31	16.90	18.08	W	20.51
May	13.17	15.29	17.01	17.32	19.10	18.71	W
June	13.10	14.24	15.91	16.44	18.03	18.86	18.12
July	13.50	14.77	16.86	17.09	18.45	–	18.71
August	13.26	15.04	16.77	17.55	18.82	19.00	18.93
September	13.39	14.84	17.31	17.68	18.79	19.09	19.07
October	13.13	15.52	17.28	18.14	19.94	20.67	W
November	11.72	14.16	16.45	17.04	19.05	18.14	W
December	9.63	11.99	15.18	15.29	17.14	17.17	W
1997	**13.13**	**14.95**	**17.50**	**17.62**	**19.37**	**20.08**	**19.82**
1998							
January	8.32	10.13	13.32	14.31	15.38	15.45	–
February	7.60	9.41	11.83	12.97	14.15	14.82	W
March	7.50	8.68	11.82	12.30	13.44	14.02	W
April	8.08	9.42	10.77	12.57	13.58	14.19	–
May	7.37	9.29	10.06	12.58	13.69	14.29	13.72
June	7.19	8.76	10.28	10.74	12.06	12.72	11.86
July	6.99	8.90	10.07	11.28	12.36	12.71	12.89
August	6.12	8.65	9.68	11.38	12.03	12.54	12.22
September	8.43	9.98	11.75	13.19	13.41	W	W

Dash (–) = No data reported.
W = Withheld to avoid disclosure of individual company data.
[a] Free on Board. See Glossary.

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Table 27. Landed Costs of Imported Crude Oil by API Gravity

(Dollars per Barrel)

Year Month	20.0 or Less	20.1 to 25.0	25.1 to 30.0	30.1 to 35.0	35.1 to 40.0	40.1 to 45.0	45.1 or Greater
1978	**12.75**	**13.11**	**13.76**	**14.10**	**14.69**	**14.87**	**15.16**
1979	**15.57**	**20.05**	**20.88**	**21.01**	**22.61**	**23.06**	**21.23**
1980	**24.54**	**29.65**	**31.83**	**31.73**	**35.81**	**36.85**	**37.57**
1981	**27.94**	**32.00**	**34.86**	**35.71**	**38.36**	**39.78**	**39.97**
1982	**24.17**	**26.46**	**32.62**	**34.76**	**35.43**	**35.78**	**35.81**
1983	**23.17**	**24.95**	**28.62**	**30.25**	**30.96**	**31.28**	**31.27**
1984	**25.08**	**25.97**	**28.38**	**29.58**	**30.16**	**30.16**	**29.05**
1985	**24.33**	**24.65**	**26.17**	**27.10**	**28.29**	**28.39**	**27.73**
1986	**11.30**	**11.49**	**13.28**	**13.59**	**14.99**	**14.80**	**15.37**
1987	**16.14**	**15.87**	**17.21**	**18.16**	**18.72**	**18.89**	**18.57**
1988	**12.75**	**12.11**	**13.54**	**14.35**	**15.21**	**15.74**	**16.24**
1989	**14.90**	**15.42**	**17.59**	**17.87**	**18.74**	**19.05**	**19.13**
1990	**16.82**	**18.54**	**21.59**	**21.18**	**22.47**	**23.47**	**23.41**
1991	**13.06**	**14.41**	**17.17**	**18.65**	**20.86**	**20.88**	**22.15**
1992	**12.89**	**14.58**	**17.39**	**18.50**	**20.11**	**20.55**	**20.95**
1993	**12.44**	**12.96**	**15.72**	**16.06**	**17.88**	**18.38**	**18.22**
1994	**12.42**	**12.93**	**15.10**	**15.61**	**16.65**	**16.64**	**16.91**
1995	**14.43**	**14.81**	**16.84**	**17.13**	**17.96**	**18.17**	**17.90**
1996							
January	14.41	14.81	17.62	18.12	18.80	19.22	18.47
February	15.29	15.52	17.66	18.86	18.80	20.03	19.74
March	16.57	17.52	19.84	20.30	20.54	21.63	21.48
April	17.04	18.65	21.71	20.94	22.12	21.86	22.15
May	15.97	17.39	19.92	19.90	21.01	21.48	21.57
June	16.10	16.90	19.17	19.20	20.09	20.30	20.63
July	16.63	17.28	19.70	19.75	20.66	21.02	20.96
August	17.33	18.00	20.52	20.86	21.72	21.54	21.81
September	19.12	19.91	22.55	22.38	23.33	22.93	22.54
October	19.23	20.97	23.32	23.34	24.80	24.73	24.87
November	18.99	19.57	22.43	22.95	24.10	24.61	24.37
December	19.17	19.92	22.96	22.71	24.77	25.19	25.53
1996	**17.18**	**18.11**	**20.53**	**20.87**	**21.74**	**21.71**	**22.28**
1997							
January	18.57	19.39	23.77	22.23	24.88	25.24	25.59
February	14.79	17.00	21.22	19.69	22.81	22.74	24.44
March	14.56	16.06	18.91	18.55	20.83	22.05	21.22
April	14.57	15.28	17.72	17.89	19.25	21.09	21.01
May	14.64	16.08	17.91	18.06	19.96	20.17	20.63
June	14.37	15.00	17.20	17.32	19.16	20.27	19.03
July	14.65	15.42	17.66	17.66	19.05	19.96	19.40
August	14.48	15.72	17.81	18.50	19.58	20.23	20.13
September	14.64	15.55	18.10	18.58	19.80	20.01	20.09
October	14.35	16.51	18.64	18.89	20.67	21.59	21.42
November	13.32	14.96	17.93	17.62	19.89	20.11	21.34
December	10.74	13.03	16.48	16.32	18.28	18.41	19.17
1997	**14.42**	**15.79**	**18.57**	**18.43**	**20.34**	**21.18**	**20.88**
1998							
January	9.78	11.04	14.87	14.99	16.37	17.28	17.27
February	8.86	10.02	13.58	13.89	15.15	16.01	16.39
March	8.63	9.37	13.03	13.35	14.33	15.09	14.68
April	9.22	10.05	12.17	13.05	14.51	15.28	14.88
May	8.39	9.82	11.62	12.71	14.40	14.91	14.66
June	8.20	9.43	11.40	11.65	13.06	13.42	13.06
July	8.12	9.64	11.12	11.82	13.12	13.58	14.02
August	7.21	9.48	10.98	11.88	12.80	13.50	13.51
September	9.57	10.97	12.38	13.22	14.00	15.11	14.80

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Table 28. Percentages of Total Imported Crude Oil by API Gravity

(Percent by Interval)

Year Month	20.0 or Less	20.1 to 25.0	25.1 to 30.0	30.1 to 35.0	35.1 to 40.0	40.1 to 45.0	45.1 or Greater
1978	**1.26**	**3.57**	**7.93**	**38.79**	**31.66**	**13.48**	**3.31**
1979	**1.65**	**3.96**	**8.45**	**38.98**	**30.64**	**13.36**	**2.96**
1980	**1.70**	**6.18**	**9.25**	**38.43**	**27.02**	**13.56**	**3.85**
1981	**2.19**	**8.88**	**9.46**	**37.37**	**26.60**	**12.53**	**2.98**
1982	**3.39**	**14.90**	**11.72**	**35.58**	**23.76**	**8.44**	**2.20**
1983	**3.91**	**20.40**	**15.14**	**24.95**	**23.63**	**7.74**	**4.23**
1984	**6.48**	**20.52**	**11.59**	**21.05**	**25.75**	**8.12**	**6.48**
1985	**7.62**	**20.46**	**11.19**	**27.14**	**24.93**	**4.02**	**4.65**
1986	**5.54**	**19.36**	**14.12**	**27.49**	**25.74**	**3.65**	**4.11**
1987	**4.04**	**19.68**	**16.88**	**26.91**	**24.79**	**3.87**	**3.85**
1988	**3.52**	**18.27**	**15.99**	**30.72**	**24.45**	**4.04**	**3.02**
1989	**2.55**	**14.39**	**16.80**	**36.27**	**23.79**	**3.55**	**2.64**
1990	**3.64**	**14.96**	**18.13**	**34.44**	**23.21**	**2.94**	**2.67**
1991	**3.76**	**16.02**	**20.79**	**34.84**	**20.94**	**2.11**	**1.55**
1992	**4.05**	**17.64**	**22.41**	**31.38**	**20.49**	**3.00**	**1.04**
1993	**4.52**	**18.79**	**19.24**	**32.49**	**20.99**	**2.59**	**1.39**
1994	**3.80**	**18.98**	**18.46**	**30.77**	**23.37**	**2.75**	**1.87**
1995	**4.52**	**18.38**	**17.04**	**31.51**	**23.81**	**2.98**	**1.76**
1996							
January	4.15	22.60	17.85	28.54	23.19	2.19	1.48
February	4.52	22.26	14.69	28.79	24.96	3.51	1.27
March	3.79	19.54	19.77	31.45	22.75	1.17	1.54
April	4.56	20.86	13.84	31.67	26.91	0.96	1.20
May	4.51	18.61	15.86	32.04	24.32	3.00	1.66
June	4.29	20.45	15.33	34.01	22.65	2.29	0.98
July	6.17	18.84	13.25	33.93	24.75	2.16	0.90
August	5.23	19.66	12.44	35.69	22.73	2.57	1.69
September	3.99	21.90	13.26	36.65	21.75	0.65	1.80
October	3.92	22.24	15.65	30.63	23.84	1.09	2.62
November	5.03	22.49	13.65	31.88	23.91	2.24	0.80
December	4.63	21.77	11.45	38.24	20.65	1.68	1.59
1996	**4.58**	**20.88**	**14.69**	**32.92**	**23.51**	**1.95**	**1.47**
1997							
January	4.90	21.83	13.07	35.17	21.70	2.37	0.96
February	4.66	22.18	15.45	29.96	24.56	2.33	0.86
March	5.24	21.60	12.11	36.02	21.09	2.14	1.80
April	6.80	20.41	14.34	32.48	22.99	1.79	1.20
May	6.62	21.61	13.24	33.72	21.18	2.58	1.05
June	5.61	21.20	14.04	34.47	21.11	2.02	1.54
July	7.20	22.66	14.93	31.15	22.08	0.88	1.10
August	6.25	23.22	11.34	36.23	20.95	0.81	1.19
September	6.29	24.10	11.46	34.18	20.44	1.60	1.92
October	6.93	19.41	14.15	36.46	20.45	1.20	1.40
November	6.35	21.54	13.00	36.42	20.16	1.69	0.85
December	5.69	23.46	14.04	34.22	20.02	1.64	0.92
1997	**6.07**	**21.95**	**13.38**	**34.26**	**21.34**	**1.74**	**1.24**
1998							
January	5.07	24.79	13.48	30.95	22.09	2.69	0.93
February	5.51	22.43	14.12	29.09	24.45	2.08	2.32
March	6.88	21.13	14.05	34.05	20.90	2.11	0.89
April	7.12	20.59	18.40	31.75	19.50	1.38	1.27
May	5.15	19.20	14.74	33.94	23.10	1.80	2.06
June	5.55	20.94	14.70	36.66	19.98	0.97	1.21
July	5.91	18.04	14.65	39.69	17.80	2.19	1.70
August	5.20	19.93	13.89	37.96	18.98	1.64	2.39
September	6.44	23.24	13.61	34.37	19.23	0.64	2.47

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Table 29. F.O.B.[a] Costs of Imported Crude Oil for Selected Crude Streams

(Dollars per Barrel)

Year Quarter Month	Angolan Cabinda	Canadian Bow River	Canadian Lloydminster	Ecuadorian Oriente	Gabon Rabi-Kouanga
1978 Average	**13.32**	**–**	**–**	**12.87**	**–**
1979 Average	**20.35**	**–**	**–**	**27.59**	**–**
1980 Average	**33.24**	**–**	**W**	**34.51**	**–**
1981 Average	**35.55**	**W**	**W**	**32.66**	**–**
1982 Average	**31.86**	**W**	**W**	**32.36**	**–**
1983 Average	**28.14**	**W**	**24.54**	**28.22**	**–**
1984 Average	**27.58**	**W**	**24.70**	**28.16**	**–**
1985 Average	**26.30**	**24.55**	**23.79**	**26.12**	**–**
1986 Average	**13.39**	**11.47**	**12.77**	**13.32**	**–**
1987 Average	**17.31**	**15.63**	**15.12**	**16.53**	**–**
1988 Average	**14.52**	**11.82**	**11.28**	**12.96**	**–**
1989 Average	**17.15**	**14.94**	**W**	**16.26**	**–**
1990 Average	**W**	**18.57**	**18.50**	**W**	**–**
1991 Average	**W**	**13.44**	**13.51**	**16.04**	**18.21**
1992 Average	**18.46**	**14.04**	**W**	**17.60**	**19.01**
1993 Average	**15.65**	**12.76**	**W**	**14.57**	**16.56**
1994 Average	**15.15**	**12.86**	**W**	**13.70**	**15.67**
1995 Average	**16.37**	**14.70**	**14.44**	**16.29**	**17.08**
1996 Average	**20.44**	**18.19**	**17.14**	**18.84**	**20.97**
1997					
January	W	W	18.06	W	23.45
February	W	16.71	16.01	W	19.86
March	17.71	W	14.69	W	W
1st Quarter Average	19.51	17.27	16.39	W	21.59
April	W	15.29	14.14	W	17.19
May	17.79	15.20	14.51	W	W
June	W	14.42	13.41	W	W
2nd Quarter Average	17.10	14.96	14.06	W	17.57
July	17.35	14.37	13.79	W	18.06
August	17.54	14.97	14.47	W	W
September	17.65	14.70	14.21	–	W
3rd Quarter Average	17.51	14.71	14.17	W	18.09
October	18.90	15.68	15.17	W	W
November	18.08	W	13.51	W	19.06
December	16.24	W	11.31	–	16.33
4th Quarter Average	17.89	14.73	13.03	W	18.07
1997 Average	**17.93**	**15.37**	**14.29**	**17.95**	**18.75**
1998					
January	13.79	W	10.13	W	14.84
February	12.98	W	9.19	W	13.38
March	12.04	W	9.02	W	12.90
1st Quarter Average	12.76	W	9.49	W	13.63
April	12.56	W	8.67	W	12.85
May	13.33	W	8.33	W	13.89
June	11.11	W	7.80	W	10.85
2nd Quarter Average	12.26	W	8.31	W	12.71
July	10.91	W	9.21	W	11.63
August	10.87	W	8.85	W	11.45
September	W	W	10.65	–	13.49
3rd Quarter Average	11.01	W	9.57	W	12.20

See footnotes at end of table.

Table 29. F.O.B.[a] Costs of Imported Crude Oil for Selected Crude Streams

(Dollars per Barrel) — Continued

Year Quarter Month	Mexican Mayan	Mexican Olmeca	Nigerian Forcados Blend	Venezuelan Furrial	Venezuelan Leona
1978 Average	**–**	**–**	**–**	**–**	**–**
1979 Average	**21.50**	**–**	**–**	**–**	**–**
1980 Average	**28.73**	**–**	**–**	**–**	**–**
1981 Average	**30.82**	**–**	**38.19**	**–**	**32.94**
1982 Average	**25.29**	**–**	**34.78**	**–**	**W**
1983 Average	**23.99**	**–**	**29.55**	**–**	**W**
1984 Average	**25.35**	**–**	**29.04**	**–**	**–**
1985 Average	**24.23**	**–**	**27.78**	**–**	**W**
1986 Average	**10.93**	**–**	**14.32**	**–**	**11.14**
1987 Average	**15.72**	**–**	**18.97**	**–**	**16.27**
1988 Average	**11.26**	**13.63**	**14.63**	**–**	**13.95**
1989 Average	**14.71**	**18.69**	**17.87**	**W**	**16.01**
1990 Average	**17.29**	**23.64**	**21.47**	**22.48**	**20.44**
1991 Average	**13.02**	**20.08**	**20.09**	**16.84**	**15.80**
1992 Average	**13.42**	**19.55**	**19.90**	**16.09**	**15.65**
1993 Average	**12.03**	**16.98**	**17.81**	**13.78**	**12.97**
1994 Average	**12.39**	**16.03**	**16.52**	**14.08**	**12.00**
1995 Average	**14.37**	**17.32**	**17.43**	**15.98**	**13.58**
1996 Average	**17.43**	**21.56**	**21.45**	**20.42**	**17.13**
1997					
January	18.62	24.61	24.58	22.97	W
February	15.97	22.26	22.74	19.29	15.89
March	14.89	19.87	W	17.31	W
1st Quarter Average	16.56	22.34	22.66	19.81	W
April	14.49	18.40	W	16.73	W
May	15.34	19.40	19.06	16.98	W
June	14.12	17.76	W	16.08	W
2nd Quarter Average	14.65	18.50	18.27	16.60	W
July	14.43	18.36	19.28	16.53	W
August	14.97	18.74	W	16.86	15.27
September	14.87	18.58	W	W	W
3rd Quarter Average	14.77	18.55	19.32	17.05	15.51
October	15.93	20.06	W	18.44	W
November	14.42	19.00	W	W	W
December	11.49	17.26	W	W	12.20
4th Quarter Average	14.02	18.80	18.67	17.07	13.01
1997 Average	**14.98**	**19.67**	**19.68**	**17.73**	**14.76**
1998					
January	9.69	15.51	W	W	10.90
February	9.06	14.65	W	W	9.69
March	7.79	13.41	W	W	9.83
1st Quarter Average	8.81	14.59	W	W	10.23
April	9.29	13.78	13.62	12.01	10.27
May	9.31	14.12	14.22	11.36	W
June	8.66	12.36	11.41	10.67	W
2nd Quarter Average	9.08	13.46	13.11	11.35	10.02
July	9.16	12.70	W	10.80	8.51
August	8.46	12.24	W	W	8.40
September	9.61	13.82	W	W	W
3rd Quarter Average	9.07	12.93	W	10.90	8.77

Dash (–) = No data reported.
W = Withheld to avoid disclosure of individual company data.
[a] Free on Board. See Glossary.

Notes: Values through 1980 reflect the month of reporting; values since then reflect the month of acquisition, which can be the month of loading, the month of landing, or sometime between those events. Prices for crude oil can be determined at a time other than the acquisition date. See the Explanatory Notes section for additional detail.

Notes: Values for the current 2 months are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual.*

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Table 30. Landed Costs of Imported Crude Oil for Selected Crude Streams

(Dollars per Barrel)

Year Quarter Month	Angolan Cabinda	Canadian Bow River Heavy	Canadian Lloydminster	Ecuadorian Oriente	Gabon Rabi-Kouanga	Mexican Mayan	Mexican Olmeca
1978 Average	**14.07**	**–**	**–**	**13.85**	**–**	**–**	**–**
1979 Average	**21.51**	**–**	**–**	**29.17**	**–**	**22.23**	**–**
1980 Average	**34.68**	**–**	**W**	**34.61**	**–**	**29.49**	**–**
1981 Average	**36.84**	**W**	**W**	**33.56**	**–**	**31.52**	**–**
1982 Average	**33.08**	**28.94**	**W**	**32.97**	**–**	**25.86**	**–**
1983 Average	**29.31**	**25.62**	**25.27**	**28.90**	**–**	**24.56**	**–**
1984 Average	**28.63**	**25.46**	**25.35**	**28.79**	**–**	**25.84**	**–**
1985 Average	**27.48**	**25.42**	**24.38**	**26.97**	**–**	**24.57**	**–**
1986 Average	**14.27**	**12.71**	**13.52**	**14.39**	**–**	**11.24**	**–**
1987 Average	**18.43**	**16.49**	**15.98**	**17.60**	**–**	**16.03**	**–**
1988 Average	**14.96**	**12.68**	**12.21**	**13.77**	**–**	**11.65**	**14.07**
1989 Average	**18.15**	**15.99**	**15.36**	**17.69**	**–**	**15.14**	**19.09**
1990 Average	**20.01**	**19.32**	**19.55**	**21.63**	**–**	**17.75**	**23.78**
1991 Average	**18.31**	**14.31**	**14.63**	**17.52**	**19.51**	**13.62**	**20.45**
1992 Average	**19.59**	**15.01**	**W**	**18.52**	**19.70**	**13.80**	**19.91**
1993 Average	**16.95**	**13.56**	**13.65**	**15.79**	**17.51**	**12.45**	**17.43**
1994 Average	**16.07**	**13.90**	**13.58**	**15.24**	**16.73**	**12.79**	**16.54**
1995 Average	**17.31**	**15.77**	**15.56**	**16.84**	**18.15**	**14.88**	**17.80**
1996 Average	**21.56**	**19.18**	**18.50**	**19.91**	**21.79**	**17.95**	**21.89**
1997							
January	23.98	20.83	19.55	24.63	24.60	19.21	25.13
February	21.33	18.73	17.84	20.28	20.97	16.56	22.63
March	19.55	17.33	16.23	18.31	W	15.49	20.20
1st Quarter Average	21.81	18.80	17.96	20.67	22.45	17.07	22.65
April	18.02	16.04	15.43	17.71	18.41	15.14	18.98
May	19.04	16.21	15.66	17.41	W	15.97	19.88
June	W	15.45	14.78	17.30	W	14.78	18.29
2nd Quarter Average	18.43	15.93	15.31	17.45	18.85	15.30	19.06
July	18.26	15.50	15.14	15.97	19.49	15.00	18.83
August	18.65	16.05	15.61	16.75	W	15.53	19.18
September	18.96	16.01	15.39	16.05	W	15.36	19.05
3rd Quarter Average	18.61	15.87	15.38	16.28	19.42	15.30	19.02
October	20.20	16.66	16.26	18.52	20.48	16.56	20.50
November	19.30	15.48	15.06	18.25	20.59	15.18	19.42
December	17.90	13.77	12.72	15.77	17.83	12.17	17.71
4th Quarter Average	19.18	15.18	14.41	17.88	19.59	14.76	19.26
1997 Average	**19.48**	**16.46**	**15.72**	**18.06**	**20.07**	**15.58**	**20.05**
1998							
January	15.18	11.86	11.36	14.31	16.34	10.37	16.01
February	14.25	10.79	10.17	13.97	14.77	9.66	14.99
March	13.29	10.51	10.15	11.94	14.44	8.21	13.77
1st Quarter Average	14.04	11.14	10.59	13.35	15.12	9.39	14.98
April	13.81	10.25	9.65	12.14	14.28	9.74	14.21
May	14.17	10.34	9.40	10.54	15.11	9.66	14.40
June	12.46	9.54	9.02	10.74	12.27	9.00	12.79
2nd Quarter Average	13.39	9.98	9.39	11.03	13.99	9.45	13.80
July	12.18	10.00	10.00	10.63	12.67	9.53	13.03
August	12.09	10.39	9.74	10.93	12.64	8.89	12.61
September	W	11.16	11.29	11.71	14.43	9.97	14.14
3rd Quarter Average	12.20	10.51	10.33	10.99	13.17	9.47	13.24

See footnotes at end of table.

Table 30. Landed Costs of Imported Crude Oil for Selected Crude Streams

(Dollars per Barrel) — Continued

Year Quarter Month	Nigerian Bonny Light	Nigerian Forcados Blend	Saudi Arabian Light	Saudi Arabian Medium	United Kingdom Brent	Venezuelan Furrial	Venezuelan Leona
1978 Average	**15.04**	**–**	**14.04**	**–**	**–**	**–**	**–**
1979 Average	**27.11**	**–**	**19.18**	**–**	**23.26**	**–**	**–**
1980 Average	**38.58**	**–**	**29.57**	**–**	**34.57**	**–**	**–**
1981 Average	**39.25**	**40.15**	**34.32**	**32.74**	**37.58**	**–**	**33.60**
1982 Average	**36.45**	**35.57**	**35.65**	**32.56**	**34.53**	**–**	**W**
1983 Average	**31.06**	**30.46**	**30.95**	**29.16**	**31.26**	**–**	**W**
1984 Average	**30.46**	**30.11**	**30.61**	**29.09**	**29.89**	**–**	**–**
1985 Average	**28.98**	**28.65**	**25.35**	**W**	**28.49**	**–**	**W**
1986 Average	**15.00**	**14.52**	**13.06**	**W**	**14.64**	**–**	**11.80**
1987 Average	**19.26**	**19.65**	**17.88**	**W**	**18.71**	**–**	**16.81**
1988 Average	**16.02**	**15.41**	**14.04**	**13.05**	**15.84**	**–**	**14.50**
1989 Average	**19.38**	**18.86**	**17.96**	**16.83**	**18.83**	**16.78**	**16.68**
1990 Average	**23.21**	**22.71**	**22.49**	**20.98**	**24.40**	**23.26**	**21.28**
1991 Average	**21.57**	**21.13**	**18.49**	**17.04**	**21.65**	**17.69**	**16.40**
1992 Average	**20.85**	**20.67**	**18.54**	**17.14**	**20.68**	**16.80**	**16.21**
1993 Average	**18.75**	**18.65**	**16.62**	**14.86**	**18.02**	**14.71**	**13.76**
1994 Average	**17.23**	**17.32**	**15.83**	**14.81**	**16.65**	**14.95**	**12.81**
1995 Average	**18.35**	**18.19**	**17.17**	**16.54**	**17.96**	**16.78**	**14.40**
1996 Average	**21.69**	**21.89**	**20.86**	**20.12**	**20.94**	**21.18**	**17.99**
1997							
January	W	25.76	22.07	20.18	24.80	23.89	W
February	W	23.96	18.99	17.81	24.33	20.11	16.70
March	W	20.12	18.64	17.39	23.59	18.18	W
1st Quarter Average	W	23.79	19.91	18.70	24.39	20.72	W
April	W	19.10	17.82	17.10	19.40	17.59	W
May	19.74	19.98	17.66	16.57	20.01	17.98	W
June	W	19.14	17.42	16.64	19.63	17.15	W
2nd Quarter Average	19.79	19.40	17.65	16.76	19.67	17.58	W
July	–	19.95	17.33	16.74	18.73	17.26	W
August	W	20.06	18.70	18.09	19.44	17.56	16.12
September	21.06	20.30	18.28	17.79	19.40	18.36	W
3rd Quarter Average	20.88	20.13	18.11	17.57	19.18	17.70	16.38
October	W	20.67	18.13	16.84	W	19.21	W
November	W	20.37	16.68	14.90	W	17.95	W
December	–	19.14	15.73	14.18	W	W	13.18
4th Quarter Average	20.61	19.98	16.63	15.38	19.50	17.86	14.02
1997 Average	**21.21**	**20.67**	**18.14**	**17.11**	**20.85**	**18.59**	**15.83**
1998							
January	W	16.76	14.64	12.69	W	14.62	11.82
February	16.84	15.35	14.04	12.56	W	W	10.53
March	14.37	14.82	12.84	12.02	15.27	W	10.81
1st Quarter Average	15.62	15.53	13.77	12.43	15.71	13.83	11.15
April	15.13	14.55	13.33	11.05	15.20	12.80	11.16
May	15.07	15.18	12.58	10.57	14.18	11.97	W
June	13.42	13.16	11.33	10.68	W	11.29	W
2nd Quarter Average	14.77	14.31	12.47	10.74	14.37	12.02	10.80
July	W	12.49	12.09	10.85	W	11.54	9.29
August	13.47	12.95	11.46	11.15	13.17	W	9.16
September	W	14.48	12.84	11.82	W	W	W
3rd Quarter Average	13.84	13.13	12.15	11.12	13.29	11.60	9.57

Dash (–) = No data reported.
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Prices of Petroleum Products

Table 31. Motor Gasoline Prices by Grade, Sales Type, PAD District, and State

(Cents per Gallon Excluding Taxes)

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average
United States												
September 1998	60.0	59.9	55.4	46.7	42.3	48.6	69.3	68.9	61.8	50.6	W	56.1
August 1998	61.3	61.0	55.7	45.8	42.1	48.2	70.7	70.2	62.4	49.8	W	56.0
September 1997	82.8	82.4	77.7	67.6	62.8	69.8	91.3	90.7	84.2	71.3	W	77.7
PAD District I												
September 1998	56.4	56.2	52.6	45.1	42.6	47.4	66.2	65.9	59.4	49.0	–	54.1
August 1998	57.8	57.5	53.1	43.7	41.8	46.7	67.7	67.2	60.1	47.9	–	53.8
September 1997	80.8	80.4	76.0	65.8	63.6	69.0	89.7	89.0	82.0	69.8	–	75.9
Subdistrict IA												
September 1998	60.7	60.3	55.2	47.5	44.6	50.9	71.1	70.4	62.4	51.4	–	57.6
August 1998	62.5	62.0	55.7	46.3	43.7	49.8	72.9	71.9	63.4	50.3	–	57.5
September 1997	89.1	88.1	80.9	71.1	64.9	74.1	98.2	96.8	87.9	75.3	–	82.3
Connecticut												
September 1998	57.7	57.5	56.0	47.3	NA	51.8	69.1	67.4	61.8	51.5	–	57.4
August 1998	59.7	59.3	57.1	45.9	W	51.2	70.4	69.0	62.8	50.2	–	57.6
September 1997	88.3	87.9	80.6	71.3	63.6	74.7	97.8	95.3	86.4	75.1	–	81.4
Maine												
September 1998	66.2	66.0	55.9	48.0	–	50.3	76.7	76.3	62.9	51.9	–	56.2
August 1998	67.6	67.4	55.8	46.6	W	47.5	78.6	77.3	63.3	50.5	–	55.2
September 1997	91.1	90.8	79.7	70.7	69.0	72.6	100.5	99.6	86.2	74.9	–	79.1
Massachusetts												
September 1998	59.4	58.6	54.3	47.4	43.7	50.5	70.1	69.5	63.0	51.0	–	58.3
August 1998	61.1	60.2	54.5	46.4	NA	50.2	72.0	71.0	64.1	50.4	–	58.6
September 1997	89.0	87.5	81.1	70.8	64.0	73.4	98.1	96.7	89.3	75.3	–	83.7
New Hampshire												
September 1998	62.2	62.1	56.3	47.4	W	51.1	72.3	72.2	62.3	50.7	–	59.3
August 1998	63.4	63.3	56.2	46.4	W	NA	73.7	73.5	62.1	48.5	–	58.8
September 1997	89.0	88.8	82.0	70.1	–	77.8	98.1	97.8	87.4	74.9	–	85.0
Rhode Island												
September 1998	55.8	55.8	51.8	47.6	–	48.8	65.8	65.7	58.1	51.3	–	54.3
August 1998	58.3	58.1	54.4	46.0	–	48.5	67.9	67.6	61.0	49.9	–	54.6
September 1997	86.2	86.1	82.1	72.8	–	75.5	94.1	93.7	87.6	77.0	–	81.7
Vermont												
September 1998	62.1	62.5	57.8	47.6	–	54.6	71.4	70.9	66.1	51.8	–	61.9
August 1998	64.1	63.9	57.6	46.4	–	54.0	73.1	72.6	65.9	50.6	–	61.3
September 1997	88.4	85.8	81.9	70.7	–	78.1	97.5	96.5	89.1	75.7	–	85.2
Subdistrict IB												
September 1998	58.0	57.9	54.3	46.0	42.5	48.1	67.4	67.0	61.1	50.3	–	56.8
August 1998	59.4	59.1	55.5	44.8	41.4	47.7	68.9	68.3	62.2	49.3	–	57.0
September 1997	83.6	83.3	78.4	68.5	63.7	71.1	92.1	91.4	84.2	73.0	–	79.9
Delaware												
September 1998	56.8	56.5	51.5	45.1	–	47.6	68.8	67.9	58.3	48.7	–	53.1
August 1998	57.7	57.4	52.5	44.2	–	47.4	70.2	69.4	59.6	48.4	–	53.4
September 1997	82.0	81.4	75.7	69.8	–	72.2	91.7	90.6	81.3	73.4	–	77.5
District of Columbia												
September 1998	W	56.3	60.1	–	–	60.1	W	67.8	NA	–	–	NA
August 1998	W	57.7	61.9	–	–	61.9	W	68.9	NA	–	–	NA
September 1997	W	75.8	80.3	–	–	80.3	W	85.6	83.3	–	–	83.3
Maryland												
September 1998	57.3	56.8	55.7	45.6	–	51.6	67.2	66.5	61.8	49.7	–	58.1
August 1998	58.9	58.4	57.4	45.0	W	52.0	68.5	67.2	63.5	49.5	–	58.9
September 1997	83.9	82.2	76.6	65.9	–	72.2	92.0	89.0	82.1	69.6	–	78.2
New Jersey												
September 1998	61.2	61.4	57.0	47.4	42.4	47.1	72.3	72.4	62.7	52.7	–	58.7
August 1998	62.3	62.3	58.0	46.0	41.5	46.4	73.5	73.4	63.6	51.7	–	58.8
September 1997	87.0	86.7	82.3	69.6	63.7	70.0	97.2	96.6	88.1	76.9	–	84.5
New York												
September 1998	59.7	59.2	54.7	46.3	44.1	49.5	69.6	68.0	63.1	50.0	–	58.7
August 1998	60.8	60.0	55.3	44.9	42.0	49.0	70.5	68.5	64.0	48.9	–	58.7
September 1997	86.1	85.6	80.8	69.7	65.6	73.8	95.3	94.0	88.4	74.0	–	83.5
Pennsylvania												
September 1998	56.1	56.2	50.7	45.3	42.4	46.8	65.3	65.3	57.0	49.3	–	53.2
August 1998	57.6	57.6	52.3	44.1	40.6	46.5	67.1	67.0	58.0	48.0	–	53.1
September 1997	81.1	81.0	74.3	67.5	62.7	69.5	89.7	89.4	79.0	72.0	–	75.5

See footnotes at end of table.

Table 31. Motor Gasoline Prices by Grade, Sales Type, PAD District, and State

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average
United States												
September 1998	76.8	76.1	68.0	55.9	47.4	60.1	64.0	63.7	58.9	48.6	42.8	51.3
August 1998	77.9	77.1	68.6	55.3	48.8	60.2	65.2	64.8	59.3	47.8	42.8	51.0
September 1997	99.3	98.5	91.0	76.9	69.0	82.1	86.3	85.8	81.1	69.3	63.3	72.4
PAD District I												
September 1998	74.6	73.8	65.5	54.6	48.6	59.3	61.5	61.2	56.8	47.4	43.4	50.7
August 1998	75.8	74.9	66.4	53.7	47.6	59.2	62.8	62.4	57.4	46.2	42.4	50.1
September 1997	98.3	97.1	89.9	76.0	68.5	81.6	85.2	84.6	80.2	68.1	64.5	72.3
Subdistrict IA												
September 1998	79.3	78.0	67.9	56.2	W	61.5	65.0	64.5	58.5	49.5	45.2	53.5
August 1998	81.3	79.7	68.3	55.2	48.9	60.8	66.9	66.2	59.1	48.3	44.4	52.5
September 1997	105.9	103.6	93.3	81.1	72.3	86.2	92.6	91.5	84.1	73.0	65.6	76.8
Connecticut												
September 1998	77.7	76.9	69.3	57.1	W	61.6	62.8	62.4	59.0	49.6	W	54.3
August 1998	79.5	78.6	68.9	55.6	W	60.8	64.7	64.2	59.9	48.2	45.1	53.7
September 1997	104.8	103.4	93.0	81.7	W	85.1	92.2	91.4	83.5	73.5	65.5	77.3
Maine												
September 1998	86.7	85.7	69.1	56.8	–	60.6	70.1	69.9	58.6	49.5	–	52.2
August 1998	87.9	86.7	68.9	55.7	W	58.2	71.7	71.4	58.6	48.3	W	49.5
September 1997	109.7	108.7	92.7	80.6	–	84.2	94.4	94.0	82.1	72.3	69.0	74.4
Massachusetts												
September 1998	77.8	75.8	66.9	55.3	W	61.3	64.0	63.1	57.9	49.3	43.9	53.4
August 1998	80.0	77.2	67.6	54.6	50.5	60.9	65.8	64.7	58.4	48.5	NA	53.2
September 1997	105.5	101.6	93.6	80.5	W	86.8	92.6	90.9	84.6	72.8	64.7	76.5
New Hampshire												
September 1998	81.3	81.3	68.5	55.2	–	63.8	66.1	66.0	59.2	48.7	W	53.4
August 1998	82.4	82.3	68.4	54.5	–	63.8	67.4	67.2	59.2	47.8	W	52.1
September 1997	106.8	106.7	94.1	79.9	–	89.8	92.3	92.0	84.5	71.8	–	80.3
Rhode Island												
September 1998	74.1	73.9	64.8	57.0	–	59.7	60.1	60.1	55.3	49.7	–	51.5
August 1998	76.6	76.2	67.5	55.8	–	59.6	62.5	62.4	58.1	48.3	–	51.4
September 1997	101.3	100.9	94.9	82.9	–	86.9	89.4	89.3	85.4	74.9	–	78.2
Vermont												
September 1998	79.4	79.3	70.1	56.7	–	67.0	65.6	65.7	61.0	49.3	–	57.6
August 1998	81.4	81.1	69.7	55.5	–	66.2	67.5	67.2	60.9	48.2	–	57.0
September 1997	105.5	104.4	91.7	80.7	–	89.3	91.4	88.6	84.7	72.5	–	80.9
Subdistrict IB												
September 1998	76.0	75.3	68.3	55.4	48.5	61.5	62.7	62.5	59.1	48.2	43.3	51.8
August 1998	77.1	76.3	69.7	54.4	47.3	61.9	64.1	63.7	60.4	47.1	42.1	51.6
September 1997	101.0	100.1	92.7	78.7	68.2	84.3	87.7	87.3	83.0	70.7	64.5	74.8
Delaware												
September 1998	77.3	76.6	65.6	54.4	–	59.0	62.0	61.4	55.0	47.2	–	50.4
August 1998	78.1	77.2	66.9	53.9	–	59.0	63.0	62.5	56.1	46.4	–	50.2
September 1997	101.0	99.7	89.4	79.8	–	84.0	86.1	85.5	78.9	71.8	–	74.9
District of Columbia												
September 1998	W	72.5	NA	–	–	NA	W	62.2	65.0	–	–	65.0
August 1998	W	73.6	NA	W	–	NA	W	63.7	NA	W	–	NA
September 1997	W	91.5	89.3	–	–	89.3	W	81.2	84.7	–	–	84.7
Maryland												
September 1998	72.5	71.5	66.0	55.1	W	62.2	62.0	61.5	59.4	48.1	W	55.2
August 1998	73.9	72.8	67.7	55.1	–	63.5	63.4	62.8	61.1	47.7	W	55.8
September 1997	98.2	95.9	87.0	75.3	W	83.3	87.6	85.8	80.1	68.1	W	75.6
New Jersey												
September 1998	80.8	80.6	70.6	56.6	48.8	61.8	67.7	67.7	62.0	50.1	43.0	50.8
August 1998	81.6	81.3	71.7	55.6	47.1	61.9	68.8	68.6	63.0	48.9	42.0	50.2
September 1997	105.7	104.9	96.4	80.8	67.6	83.1	92.6	92.2	87.2	72.9	64.4	74.0
New York												
September 1998	77.1	75.9	70.6	55.3	49.6	63.9	64.3	63.5	60.9	48.3	45.7	54.0
August 1998	77.3	76.1	71.7	53.8	48.2	64.2	65.2	64.1	61.7	47.0	43.4	53.8
September 1997	102.5	101.3	95.5	79.8	73.8	89.0	90.1	89.3	86.3	71.7	67.3	78.2
Pennsylvania												
September 1998	73.2	72.9	62.4	54.8	47.2	57.1	60.4	60.4	53.9	47.2	43.3	49.3
August 1998	75.1	74.6	64.4	53.8	47.6	57.5	62.0	61.9	55.5	46.0	42.0	49.2
September 1997	97.9	97.3	87.2	77.2	67.7	80.2	84.9	84.7	77.3	69.5	63.9	71.9

See footnotes at end of table.

Table 31. Motor Gasoline Prices by Grade, Sales Type, PAD District, and State

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average
Subdistrict IC												
September 1998	54.7	54.5	49.7	43.9	NA	45.8	65.0	64.7	57.0	48.1	–	51.7
August 1998	55.9	55.6	49.5	42.4	40.7	44.7	66.4	66.0	57.2	46.9	–	51.1
September 1997	77.5	77.0	70.8	62.9	59.3	65.2	87.2	86.6	78.1	67.7	–	71.8
Florida												
September 1998	55.5	55.1	48.7	43.7	W	45.1	66.6	66.1	56.6	47.5	–	51.3
August 1998	56.8	56.3	50.5	41.9	41.1	44.4	67.9	67.4	58.1	46.2	–	51.2
September 1997	79.1	78.3	73.7	62.9	W	65.7	89.3	88.7	82.1	67.5	–	73.7
Georgia												
September 1998	52.6	52.7	49.7	43.7	W	45.6	62.6	63.0	54.3	48.2	–	51.2
August 1998	53.3	53.3	46.5	42.3	–	43.6	63.2	63.5	52.3	47.1	–	49.5
September 1997	74.5	74.4	68.0	62.1	W	63.9	84.1	83.5	73.2	68.0	–	70.3
North Carolina												
September 1998	54.4	53.8	47.8	43.8	W	45.1	64.5	64.0	58.0	48.3	–	51.2
August 1998	55.8	55.2	48.1	42.2	W	44.2	66.3	65.8	58.4	47.0	–	50.6
September 1997	76.1	75.6	69.1	62.8	W	64.5	86.1	85.4	77.5	67.4	–	70.5
South Carolina												
September 1998	52.7	53.2	46.6	44.0	–	44.6	63.2	62.9	51.7	48.6	–	49.6
August 1998	53.8	54.4	45.6	42.3	W	43.1	64.2	64.0	50.4	47.1	–	48.1
September 1997	74.7	74.8	66.7	62.6	W	63.6	84.5	84.5	72.7	67.8	–	69.3
Virginia												
September 1998	56.8	56.8	52.8	44.2	W	47.2	66.6	66.2	60.7	47.7	–	53.4
August 1998	58.2	58.1	53.6	43.0	W	46.7	68.3	67.9	62.3	47.3	–	53.8
September 1997	80.9	80.4	73.9	63.8	61.5	67.2	90.2	89.3	79.6	67.7	–	73.3
West Virginia												
September 1998	56.5	56.5	55.6	47.7	–	52.5	65.6	65.4	61.6	52.9	–	58.4
August 1998	58.6	58.6	54.9	46.8	–	51.5	67.8	67.6	60.7	52.3	–	57.5
September 1997	80.8	80.6	71.4	66.2	–	69.6	89.4	89.0	77.7	70.5	–	75.3
PAD District II												
September 1998	60.3	60.3	54.1	47.0	42.8	48.4	68.5	68.3	60.2	51.5	–	55.0
August 1998	61.6	61.6	54.1	46.0	43.4	47.8	69.8	69.7	61.3	50.5	–	55.0
September 1997	80.6	80.6	71.6	66.0	62.0	67.1	88.0	87.7	78.3	69.7	–	73.5
Illinois												
September 1998	64.2	64.2	60.7	47.7	41.7	49.8	71.8	71.4	64.3	52.0	–	59.2
August 1998	66.0	65.9	61.3	46.2	43.5	49.1	73.5	73.1	65.8	50.8	–	59.6
September 1997	82.8	82.6	77.1	66.1	62.5	68.5	89.7	89.4	82.5	70.4	–	78.3
Indiana												
September 1998	59.6	59.7	53.5	46.0	41.2	47.7	68.5	68.3	58.2	50.4	–	53.5
August 1998	60.0	60.0	53.3	44.4	43.8	46.7	68.8	68.5	58.9	48.8	–	53.0
September 1997	79.7	79.3	70.2	64.3	62.1	66.0	87.2	86.5	76.5	68.3	–	72.2
Iowa												
September 1998	59.1	59.5	51.7	47.7	–	48.1	65.1	65.1	56.3	53.4	–	54.0
August 1998	61.1	61.5	51.3	47.1	–	47.5	66.3	66.5	55.6	52.9	–	53.6
September 1997	82.4	82.6	71.9	67.4	–	67.9	86.3	86.3	75.6	71.4	–	72.4
Kansas												
September 1998	58.9	58.7	51.6	46.6	W	46.9	64.3	64.2	NA	51.5	–	NA
August 1998	60.7	60.4	51.2	46.2	41.7	46.1	66.6	66.5	NA	51.2	–	52.8
September 1997	79.7	79.5	71.2	67.2	W	66.8	86.8	86.7	77.4	71.2	–	74.8
Kentucky												
September 1998	58.2	57.8	52.8	46.0	W	47.9	67.7	67.2	58.2	50.2	–	53.1
August 1998	59.8	59.3	52.4	44.6	W	46.9	69.3	68.9	58.0	49.2	–	52.5
September 1997	80.0	79.3	70.4	64.8	W	66.6	89.0	88.4	76.8	69.4	–	72.6
Michigan												
September 1998	58.7	58.6	51.0	47.3	–	48.8	68.7	68.7	58.6	50.4	–	56.1
August 1998	59.6	59.5	51.6	45.8	–	48.1	71.1	71.0	62.2	49.3	–	58.2
September 1997	77.4	77.6	69.3	65.7	–	67.1	86.2	86.2	76.3	68.2	–	74.2
Minnesota												
September 1998	69.0	69.1	60.0	52.5	W	54.4	74.4	74.2	NA	55.0	–	57.1
August 1998	70.2	70.2	59.8	51.9	W	53.8	75.1	75.0	NA	54.5	–	56.6
September 1997	91.4	90.7	76.0	69.8	W	71.1	97.1	96.8	82.7	72.7	–	75.5
Missouri												
September 1998	56.1	56.7	54.7	46.2	–	48.8	65.0	65.6	NA	51.3	–	55.4
August 1998	57.2	57.8	54.3	45.7	–	48.3	65.5	66.2	59.2	51.1	–	55.6
September 1997	80.7	81.1	72.8	66.4	–	68.7	89.9	89.7	81.0	71.1	–	77.6

See footnotes at end of table.

Table 31. Motor Gasoline Prices by Grade, Sales Type, PAD District, and State

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average
Subdistrict IC												
September 1998	73.2	72.5	61.5	53.9	49.9	56.8	60.2	59.9	53.7	46.5	43.1	49.0
August 1998	74.4	73.6	62.0	53.0	W	56.5	61.4	61.1	53.7	45.1	40.9	48.1
September 1997	95.8	94.7	84.9	73.6	66.5	77.7	82.3	81.8	75.2	65.5	60.5	68.6
Florida												
September 1998	73.5	72.5	62.9	53.8	W	57.7	61.1	60.7	54.7	46.3	43.2	49.1
August 1998	74.6	73.5	64.6	52.4	–	57.8	62.3	61.9	56.3	44.7	41.1	48.7
September 1997	96.8	95.2	89.1	73.7	W	80.5	84.0	83.3	79.9	65.6	W	70.2
Georgia												
September 1998	71.3	71.6	60.7	53.7	–	56.3	57.9	58.4	53.0	46.2	W	48.6
August 1998	71.7	71.7	58.4	53.0	–	55.0	58.4	58.8	50.2	44.9	–	46.7
September 1997	93.1	92.6	79.6	73.2	–	75.4	79.2	79.2	71.2	64.7	W	66.8
North Carolina												
September 1998	73.7	72.5	57.9	54.2	–	55.4	60.3	59.6	51.0	46.6	W	48.1
August 1998	75.2	74.0	58.6	53.1	–	55.0	61.7	60.9	51.5	45.1	W	47.3
September 1997	95.5	94.4	82.2	73.5	–	75.8	81.5	80.8	72.9	65.5	W	67.5
South Carolina												
September 1998	71.9	71.4	57.8	54.3	–	55.1	58.0	58.1	49.5	46.5	–	47.3
August 1998	72.9	72.4	57.1	53.1	–	54.0	59.1	59.2	48.4	45.0	W	45.9
September 1997	93.8	93.3	79.0	73.6	–	74.8	79.5	79.4	69.7	65.2	W	66.3
Virginia												
September 1998	74.5	74.1	63.8	53.5	W	58.1	62.0	61.9	56.8	46.5	NA	50.4
August 1998	76.4	75.9	65.1	53.2	W	58.5	63.5	63.3	57.8	45.7	NA	50.3
September 1997	98.2	97.3	86.3	73.9	W	79.0	85.5	84.9	77.9	66.2	62.2	70.5
West Virginia												
September 1998	74.4	74.1	67.4	58.1	–	63.8	60.4	60.4	58.4	50.0	–	55.1
August 1998	76.2	75.9	66.7	57.5	–	63.0	62.5	62.5	57.7	49.2	–	54.2
September 1997	98.4	97.7	84.7	75.9	–	81.2	84.4	84.1	74.0	68.3	–	72.0
PAD District II												
September 1998	76.0	75.4	66.1	56.1	47.2	59.1	63.2	63.1	56.8	48.6	42.9	50.4
August 1998	77.0	76.5	66.4	55.3	50.5	58.7	64.5	64.4	57.0	47.6	43.7	49.9
September 1997	95.1	94.5	83.9	74.3	67.9	77.7	83.1	82.9	74.2	67.3	62.1	68.9
Illinois												
September 1998	81.6	80.9	71.6	58.6	W	64.7	67.6	67.5	63.7	49.5	41.8	52.8
August 1998	83.3	82.6	73.3	57.5	W	64.6	69.3	69.2	64.6	48.1	43.7	52.2
September 1997	98.7	98.1	88.6	75.7	–	82.4	85.9	85.7	80.5	67.6	62.5	71.4
Indiana												
September 1998	76.1	75.6	65.1	56.2	W	58.8	63.3	63.3	56.1	48.0	41.4	49.9
August 1998	76.2	75.8	65.8	55.0	W	58.4	63.6	63.5	56.1	46.4	44.1	49.0
September 1997	92.8	91.8	82.0	73.5	W	76.7	82.6	82.1	72.7	65.9	62.2	68.0
Iowa												
September 1998	69.2	69.2	59.4	56.7	–	57.2	60.4	60.7	53.7	49.0	–	49.6
August 1998	70.6	70.6	58.9	56.1	–	56.6	62.3	62.6	53.2	48.4	–	49.0
September 1997	91.3	91.3	80.4	75.2	–	76.0	83.5	83.6	73.6	68.4	–	69.0
Kansas												
September 1998	71.1	70.9	59.7	54.0	W	54.1	60.3	60.1	52.7	47.4	W	47.7
August 1998	73.0	72.7	60.7	53.8	W	53.8	62.1	61.8	52.7	47.0	42.7	47.1
September 1997	93.1	92.6	80.6	74.6	W	75.5	81.2	80.8	72.6	67.8	W	67.6
Kentucky												
September 1998	77.3	76.2	64.4	55.8	–	58.5	62.7	62.2	55.7	48.2	W	50.4
August 1998	78.7	77.6	64.5	54.8	–	57.9	64.2	63.6	55.3	46.9	W	49.4
September 1997	97.7	96.2	82.9	74.4	–	77.4	83.8	83.0	73.3	66.8	W	69.0
Michigan												
September 1998	74.6	74.0	63.4	57.4	–	60.0	61.3	61.2	53.7	48.9	–	51.0
August 1998	75.5	74.9	64.1	56.5	–	59.8	62.4	62.2	54.7	47.5	–	50.6
September 1997	92.5	92.1	81.8	74.5	–	77.8	79.7	79.8	71.7	66.7	–	68.8
Minnesota												
September 1998	80.1	80.2	68.6	58.6	W	61.6	70.6	70.6	61.4	53.5	W	55.5
August 1998	80.8	80.9	68.2	58.0	W	61.2	71.7	71.6	61.3	52.9	W	54.9
September 1997	103.0	102.4	86.7	75.8	W	78.7	92.7	92.1	77.5	70.5	W	72.0
Missouri												
September 1998	73.0	73.0	66.4	54.8	–	59.3	58.8	59.3	57.0	47.5	–	50.6
August 1998	73.6	73.6	65.4	54.6	–	58.4	59.7	60.2	56.3	47.0	–	49.9
September 1997	97.7	97.5	86.7	74.3	–	80.8	83.1	83.3	75.9	67.4	–	70.7

See footnotes at end of table.

Table 31. Motor Gasoline Prices by Grade, Sales Type, PAD District, and State

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average
Nebraska												
September 1998	61.3	61.5	51.1	47.3	–	47.8	67.8	67.4	56.5	54.2	–	54.7
August 1998	62.5	62.5	51.2	46.8	–	47.5	68.8	68.1	58.1	53.9	–	54.8
September 1997	81.4	81.7	70.6	67.5	–	67.9	86.9	86.0	75.1	71.7	–	72.4
North Dakota												
September 1998	70.2	69.9	54.3	49.2	–	50.0	77.2	77.4	NA	56.0	–	NA
August 1998	72.6	71.9	55.4	49.1	–	50.2	79.1	78.4	NA	56.1	–	57.1
September 1997	89.2	89.4	76.1	69.9	–	71.1	97.3	96.9	80.8	75.0	–	77.5
Ohio												
September 1998	60.7	60.4	54.2	46.4	43.0	49.2	70.1	69.6	60.6	49.4	–	55.2
August 1998	61.8	61.5	54.0	45.2	42.6	48.3	71.1	70.7	61.0	48.6	–	55.1
September 1997	78.6	78.3	69.3	63.8	60.3	65.9	86.3	86.0	75.8	66.9	–	71.9
Oklahoma												
September 1998	57.1	57.0	48.8	45.9	43.2	44.8	62.9	62.9	55.2	47.7	–	52.6
August 1998	58.8	58.6	48.2	45.7	43.7	45.1	64.7	64.5	54.5	47.4	–	52.0
September 1997	77.3	77.2	68.7	66.2	61.8	64.4	83.7	83.0	73.0	68.8	–	71.2
South Dakota												
September 1998	69.1	69.5	55.0	48.9	–	50.5	71.5	72.1	57.0	NA	–	NA
August 1998	70.0	70.5	54.9	49.5	–	50.9	74.6	74.9	58.8	NA	–	NA
September 1997	87.5	87.6	76.9	69.5	–	71.2	90.4	90.9	NA	NA	–	NA
Tennessee												
September 1998	53.7	53.4	51.7	44.1	–	45.2	63.3	63.3	60.7	48.7	–	51.3
August 1998	55.1	54.9	51.9	42.7	–	44.1	65.1	65.0	60.9	47.5	–	50.3
September 1997	75.9	75.8	71.7	63.1	–	64.5	86.9	86.8	79.8	68.2	–	70.7
Wisconsin												
September 1998	61.6	61.7	54.6	47.6	W	48.8	69.4	69.6	60.1	53.1	–	55.2
August 1998	63.0	62.9	54.3	46.4	W	47.7	70.8	70.9	60.6	52.1	–	54.7
September 1997	81.9	81.5	71.7	66.1	W	67.1	89.7	90.0	79.3	70.9	–	73.6
PAD District III												
September 1998	55.8	55.7	50.7	43.3	39.1	43.0	66.6	66.1	56.6	47.3	–	50.2
August 1998	57.1	56.8	50.8	42.3	39.4	42.5	68.2	67.7	57.1	46.3	–	49.7
September 1997	78.7	78.2	70.8	64.2	59.0	63.1	88.1	87.5	77.0	68.1	–	70.7
Alabama												
September 1998	58.5	58.1	51.6	43.5	–	46.0	67.1	66.4	57.0	48.3	–	52.1
August 1998	60.2	59.8	51.1	42.5	–	45.2	69.2	68.2	57.0	47.0	–	51.6
September 1997	79.7	79.3	69.3	62.8	–	64.7	89.3	88.7	75.6	67.8	–	70.6
Arkansas												
September 1998	56.0	56.9	51.2	44.8	W	45.5	65.4	64.6	55.3	48.4	–	50.0
August 1998	57.0	57.0	50.9	43.3	W	44.5	66.4	65.6	54.0	46.8	–	48.5
September 1997	76.4	75.7	67.5	64.5	W	64.5	85.0	84.2	71.0	67.9	–	68.7
Louisiana												
September 1998	57.2	56.4	53.4	42.1	38.7	42.8	68.3	67.5	59.4	46.1	–	50.3
August 1998	58.1	57.2	53.0	40.7	38.8	42.0	69.5	68.6	59.6	44.8	–	50.3
September 1997	77.1	76.6	73.6	62.6	59.5	63.9	87.4	86.6	79.7	67.2	–	71.0
Mississippi												
September 1998	59.9	59.3	55.2	42.8	38.1	43.7	69.7	69.4	61.0	47.1	–	51.7
August 1998	60.9	60.2	54.0	41.2	38.6	42.9	71.0	70.5	60.0	45.7	–	50.5
September 1997	80.0	79.2	72.0	62.1	60.3	63.6	89.5	89.0	77.8	66.6	–	70.4
New Mexico												
September 1998	64.0	63.6	52.0	46.6	–	47.6	73.9	73.6	57.6	51.1	–	52.2
August 1998	66.1	65.6	54.1	49.0	–	49.9	75.5	75.1	59.6	54.1	–	55.2
September 1997	87.8	87.5	74.9	72.4	–	72.8	95.0	94.7	80.7	76.6	–	77.3
Texas												
September 1998	53.9	54.0	48.6	43.1	39.3	42.0	65.1	64.8	54.4	47.1	–	49.1
August 1998	55.2	55.1	49.3	42.0	39.5	41.6	66.8	66.4	55.8	46.0	–	48.7
September 1997	77.6	77.2	70.6	64.3	58.9	62.2	87.3	86.8	77.5	68.0	–	70.6
PAD District IV												
September 1998	67.2	67.0	59.1	55.2	–	56.3	77.7	77.3	63.9	59.5	–	61.4
August 1998	68.2	68.0	60.1	56.3	–	57.3	78.6	78.2	64.4	60.0	–	61.9
September 1997	88.0	87.9	80.7	76.1	W	77.1	98.0	97.4	85.7	80.4	–	82.6
Colorado												
September 1998	64.6	64.1	52.9	48.5	–	49.5	78.6	77.9	57.9	52.4	–	54.3
August 1998	65.9	65.4	54.9	50.6	–	51.5	79.2	78.6	59.8	54.5	–	56.3
September 1997	86.9	86.6	78.6	71.7	W	72.9	98.6	98.0	85.3	75.6	–	79.0

See footnotes at end of table.

Table 31. Motor Gasoline Prices by Grade, Sales Type, PAD District, and State

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average
Nebraska												
September 1998	74.6	74.3	61.7	56.5	–	57.4	63.2	63.1	52.9	48.7	–	49.4
August 1998	76.0	75.8	61.8	55.4	–	56.6	64.4	64.1	53.2	48.2	–	49.0
September 1997	93.1	93.0	81.0	76.0	–	77.0	82.8	82.8	72.4	68.6	–	69.2
North Dakota												
September 1998	75.6	75.1	64.0	58.3	–	59.8	71.1	70.9	55.6	50.0	–	50.9
August 1998	78.1	77.7	65.2	58.7	–	60.3	73.4	72.8	56.7	50.0	–	51.2
September 1997	94.8	94.6	85.3	78.5	–	80.6	90.1	90.4	77.2	70.4	–	71.8
Ohio												
September 1998	78.1	77.3	67.4	56.5	–	61.4	64.3	63.9	57.2	48.1	43.0	51.5
August 1998	79.0	78.3	67.1	55.4	–	60.8	65.3	64.9	57.1	47.0	42.6	50.8
September 1997	93.5	93.0	81.8	73.3	W	77.2	81.6	81.3	72.0	65.2	61.8	68.0
Oklahoma												
September 1998	69.3	68.8	56.2	53.1	47.3	52.5	59.6	59.4	50.0	47.1	43.3	45.6
August 1998	71.2	70.8	55.7	53.0	50.1	53.2	61.5	61.2	49.4	46.9	43.9	46.0
September 1997	90.1	89.8	75.2	73.5	W	73.1	79.5	79.3	69.7	67.2	61.8	65.2
South Dakota												
September 1998	83.4	83.3	62.0	57.6	–	58.8	70.3	70.6	55.7	49.9	–	51.4
August 1998	85.6	85.6	64.4	60.0	–	61.4	71.8	72.1	56.2	50.6	–	52.1
September 1997	100.0	100.2	85.1	78.7	–	80.3	88.5	88.7	77.6	70.2	–	71.9
Tennessee												
September 1998	72.8	72.4	65.0	54.2	–	55.7	59.1	58.9	56.0	46.9	–	48.3
August 1998	74.0	73.5	65.6	53.2	–	54.9	60.4	60.1	56.0	45.5	–	47.1
September 1997	95.6	95.1	85.4	73.4	–	75.4	81.3	81.1	75.6	65.8	–	67.5
Wisconsin												
September 1998	75.8	75.5	65.0	57.8	–	59.3	63.7	63.7	56.5	49.0	W	50.3
August 1998	76.2	75.9	65.2	57.1	W	58.7	65.1	65.0	56.3	47.9	W	49.4
September 1997	93.7	93.2	82.4	74.9	–	76.5	83.6	83.2	73.6	67.2	W	68.4
PAD District III												
September 1998	73.1	72.3	62.7	53.1	44.2	53.1	60.3	60.0	53.8	45.4	39.7	45.1
August 1998	74.2	73.4	63.6	52.3	45.9	53.3	61.6	61.1	54.2	44.4	40.1	44.7
September 1997	96.0	95.1	83.1	73.8	64.3	74.5	82.7	82.0	73.9	66.1	59.3	65.2
Alabama												
September 1998	74.2	73.3	64.1	54.1	–	57.1	63.2	62.7	55.0	46.4	–	49.2
August 1998	76.1	75.2	64.7	53.7	–	57.1	64.9	64.4	54.9	45.5	–	48.6
September 1997	97.7	96.8	82.6	73.6	–	76.2	84.5	84.0	72.9	65.6	–	67.7
Arkansas												
September 1998	73.4	73.0	62.1	54.4	W	54.4	59.5	59.8	53.6	46.8	W	47.7
August 1998	74.6	72.9	62.0	53.3	W	54.2	60.5	60.0	53.3	45.4	W	46.7
September 1997	92.7	91.0	77.5	74.1	W	73.5	79.4	78.5	69.6	66.3	W	66.3
Louisiana												
September 1998	77.0	75.1	66.1	51.9	44.2	50.5	62.9	61.9	57.2	44.6	40.7	45.5
August 1998	77.8	75.5	67.1	50.6	W	52.8	63.9	62.8	57.4	43.2	40.7	45.1
September 1997	95.8	94.3	86.3	72.6	64.4	73.8	82.2	81.4	77.3	65.1	60.5	66.6
Mississippi												
September 1998	75.7	74.2	65.8	53.0	W	54.6	64.6	63.8	57.8	45.3	38.4	46.1
August 1998	74.7	73.5	65.9	51.7	W	53.8	65.3	64.6	56.9	43.7	39.3	45.6
September 1997	98.5	96.3	84.2	72.4	–	75.0	84.4	83.5	74.7	64.4	60.3	65.9
New Mexico												
September 1998	80.4	80.0	61.7	56.3	–	57.3	67.1	66.7	53.9	48.3	–	49.3
August 1998	83.1	82.4	65.5	58.7	–	60.1	69.3	68.7	56.4	50.7	–	51.8
September 1997	102.6	102.2	81.1	81.7	–	81.6	90.3	90.0	76.1	73.9	–	74.3
Texas												
September 1998	71.4	70.9	60.7	52.5	43.9	52.0	58.3	58.2	51.6	44.9	39.6	43.7
August 1998	72.7	72.2	61.5	51.8	45.2	51.7	59.7	59.3	52.4	43.9	40.0	43.3
September 1997	95.0	94.4	83.0	73.9	64.2	73.7	81.6	81.0	73.8	66.0	59.2	63.8
PAD District IV												
September 1998	85.4	83.6	68.4	65.1	–	66.2	71.7	71.1	61.8	57.3	–	58.7
August 1998	85.9	84.1	69.2	66.5	–	67.3	72.5	72.0	62.6	58.5	–	59.7
September 1997	104.9	104.0	90.1	86.4	W	87.3	92.0	91.5	83.2	78.1	W	79.4
Colorado												
September 1998	85.8	83.5	62.0	57.4	–	58.8	70.3	69.4	55.6	50.4	–	51.8
August 1998	86.2	83.9	64.0	59.5	–	60.9	71.3	70.4	57.6	52.4	–	53.7
September 1997	105.5	104.4	89.6	80.8	W	82.9	91.3	90.8	81.8	73.4	W	75.2

See footnotes at end of table.

Table 31. Motor Gasoline Prices by Grade, Sales Type, PAD District, and State

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average
Idaho												
September 1998	72.0	72.2	64.7	61.3	–	62.5	80.1	80.1	69.6	66.0	–	67.7
August 1998	71.7	72.1	64.6	60.5	–	61.9	80.5	80.4	69.3	65.3	–	67.0
September 1997	90.3	91.0	83.8	81.6	–	82.3	101.2	100.9	88.0	85.8	–	86.8
Montana												
September 1998	72.8	73.2	61.8	59.1	–	59.4	79.0	79.2	66.4	64.0	–	64.2
August 1998	73.3	73.7	63.1	61.2	–	61.5	79.3	79.4	67.5	66.2	–	66.4
September 1997	89.5	89.7	79.8	77.5	–	77.7	95.8	96.0	85.1	82.2	–	82.6
Utah												
September 1998	66.3	65.5	59.3	58.5	–	58.8	74.4	74.1	65.6	64.8	–	65.3
August 1998	67.0	66.3	59.6	57.3	–	58.2	75.8	75.4	NA	63.4	–	64.5
September 1997	88.2	87.4	80.5	78.3	–	79.1	96.3	95.3	85.3	83.8	–	84.6
Wyoming												
September 1998	74.4	72.6	62.1	54.3	–	55.7	81.5	80.4	66.5	64.2	–	65.2
August 1998	75.7	74.5	63.9	56.9	–	58.3	82.5	81.3	67.7	63.6	–	65.1
September 1997	91.8	90.5	81.5	75.8	–	76.8	100.2	98.1	86.1	82.1	–	83.9
PAD District V												
September 1998	68.7	67.8	61.8	53.7	49.4	57.2	77.5	77.1	67.9	59.1	W	65.8
August 1998	69.9	68.9	62.2	53.9	49.5	57.7	78.8	78.4	68.1	59.5	W	66.0
September 1997	95.7	94.2	89.0	81.9	NA	83.8	104.2	103.6	95.0	88.9	W	93.5
Alaska												
September 1998	93.7	92.6	83.9	65.2	W	71.7	101.4	100.5	82.0	78.8	–	81.4
August 1998	94.5	95.0	84.0	67.5	W	73.0	103.8	102.3	83.7	80.6	–	82.2
September 1997	115.9	114.8	100.0	83.5	–	91.5	120.9	120.0	102.3	94.8	–	100.0
Arizona												
September 1998	66.5	65.9	56.2	48.9	47.0	52.9	76.3	76.1	63.2	54.8	–	60.9
August 1998	67.9	67.2	56.8	49.0	45.8	53.3	76.9	76.8	63.9	55.0	–	61.6
September 1997	95.2	94.5	84.9	80.2	76.5	83.0	104.4	104.2	90.6	87.1	–	89.9
California												
September 1998	67.7	66.9	61.9	53.8	50.0	57.3	76.6	76.3	67.6	58.9	W	65.8
August 1998	69.0	68.0	62.6	54.0	50.0	58.0	78.3	77.9	68.1	59.0	W	66.3
September 1997	94.6	92.4	90.1	81.9	NA	83.5	103.3	102.4	95.7	88.1	W	94.2
Hawaii												
September 1998	105.0	90.8	93.4	80.8	–	91.4	111.4	102.2	97.7	87.1	–	97.3
August 1998	105.6	91.5	94.0	79.5	–	91.9	111.9	102.6	98.2	84.3	–	97.8
September 1997	110.7	106.0	103.2	86.4	W	90.8	118.6	114.8	107.7	W	–	107.4
Nevada												
September 1998	71.3	65.1	58.4	53.3	47.8	54.7	79.4	74.6	65.1	58.2	–	63.0
August 1998	70.9	66.8	55.9	52.1	48.0	53.2	78.8	75.5	61.5	57.5	–	60.1
September 1997	95.0	94.5	82.4	83.9	NA	83.3	107.2	107.0	87.1	92.6	–	89.0
Oregon												
September 1998	70.1	69.6	60.2	52.3	48.0	54.7	80.7	79.7	67.6	59.3	–	63.9
August 1998	70.8	70.3	59.5	52.5	48.0	54.6	80.2	79.5	66.0	59.9	–	63.2
September 1997	99.2	98.2	87.2	84.1	77.6	84.9	109.5	108.4	94.4	92.0	–	93.4
Washington												
September 1998	66.2	66.5	61.3	54.3	46.2	57.4	77.9	77.9	67.7	60.7	–	65.2
August 1998	67.4	67.6	61.5	55.0	47.4	58.0	78.8	79.0	67.9	61.5	–	65.6
September 1997	93.5	93.8	86.7	79.8	76.0	83.3	103.5	103.4	92.8	88.6	–	91.0

See footnotes at end of table.

Table 31. Motor Gasoline Prices by Grade, Sales Type, PAD District, and State

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average
Idaho												
September 1998	88.2	86.9	75.4	71.5	–	73.0	74.8	74.6	66.8	63.0	–	64.4
August 1998	87.8	86.9	75.1	70.6	–	72.2	74.7	74.7	66.6	62.2	–	63.7
September 1997	105.9	105.5	93.6	91.5	–	92.3	93.1	93.5	85.6	83.0	–	83.9
Montana												
September 1998	85.7	85.6	73.2	70.5	–	70.9	75.5	75.6	64.1	61.4	–	61.7
August 1998	86.3	86.3	74.4	72.9	–	73.1	76.0	76.1	65.4	63.6	–	63.9
September 1997	100.5	100.4	90.5	89.2	–	89.3	91.8	91.8	81.6	80.1	–	80.3
Utah												
September 1998	82.6	81.0	69.1	68.3	–	68.7	70.5	69.5	62.8	61.4	–	62.0
August 1998	83.6	81.8	69.2	67.3	–	68.2	71.2	70.3	63.1	60.2	–	61.4
September 1997	105.3	104.5	88.9	88.3	–	88.5	92.6	91.5	83.3	80.8	–	81.8
Wyoming												
September 1998	87.6	86.0	NA	64.5	–	66.5	77.7	75.7	64.8	56.4	–	58.0
August 1998	87.9	86.3	75.0	67.0	–	68.7	78.7	77.3	66.5	59.1	–	60.6
September 1997	104.7	102.2	91.3	85.6	–	86.8	94.7	92.9	83.7	77.6	–	78.8
PAD District V												
September 1998	87.1	86.1	76.5	65.7	53.2	71.3	72.8	71.8	65.4	55.7	49.9	60.3
August 1998	88.1	87.3	76.8	66.0	54.2	71.1	74.0	73.0	65.8	56.0	50.3	60.8
September 1997	113.9	112.4	103.6	94.5	80.8	99.3	99.3	97.9	92.3	83.9	NA	86.9
Alaska												
September 1998	109.3	109.1	92.7	76.1	–	83.2	96.0	95.0	84.9	66.4	W	73.0
August 1998	109.8	109.7	92.6	79.4	–	85.3	96.9	97.3	84.9	68.8	W	74.3
September 1997	130.8	129.5	108.6	97.8	–	104.1	117.9	116.7	100.8	84.5	–	92.6
Arizona												
September 1998	86.6	86.2	70.2	61.3	W	66.6	70.6	69.9	59.1	50.9	47.7	55.5
August 1998	87.5	87.2	70.5	61.4	W	67.5	71.8	71.2	59.8	51.0	46.2	56.1
September 1997	114.0	113.6	97.8	90.2	NA	94.9	98.5	97.8	87.4	82.3	76.3	85.4
California												
September 1998	85.3	84.5	76.3	64.9	53.7	71.6	72.1	71.2	65.7	55.7	50.4	60.7
August 1998	86.5	85.7	76.9	65.0	53.4	71.6	73.4	72.4	66.4	56.0	50.5	61.5
September 1997	112.7	111.1	104.6	94.6	82.2	100.4	98.6	96.7	93.6	83.8	NA	87.1
Hawaii												
September 1998	121.2	107.0	104.8	92.9	–	103.4	109.7	95.8	97.2	84.0	–	95.4
August 1998	122.5	109.1	105.3	91.4	–	103.8	110.3	96.6	97.7	82.5	–	95.8
September 1997	127.8	121.0	114.9	97.8	–	113.3	115.7	110.4	107.2	89.3	W	97.6
Nevada												
September 1998	86.7	82.0	72.4	63.4	54.2	66.9	75.0	68.7	62.0	55.0	48.6	57.4
August 1998	84.6	84.3	69.3	63.3	W	65.8	73.9	70.0	59.3	54.2	48.3	55.9
September 1997	112.3	111.6	94.9	94.6	NA	94.6	98.4	97.8	85.2	85.9	NA	85.5
Oregon												
September 1998	89.4	88.3	74.6	67.3	NA	67.6	73.0	72.5	62.5	54.5	48.4	56.8
August 1998	89.9	88.3	73.9	67.6	NA	66.7	73.6	73.1	61.7	54.8	50.2	56.9
September 1997	117.9	115.7	101.7	98.4	NA	95.1	101.7	100.6	89.3	85.8	76.4	86.5
Washington												
September 1998	87.7	87.6	75.4	67.6	NA	70.1	70.5	70.6	64.1	56.6	47.4	60.1
August 1998	88.7	88.5	75.4	68.4	NA	69.5	71.6	71.8	64.2	57.3	50.7	60.6
September 1997	113.4	113.2	101.2	93.6	W	97.4	97.0	97.2	89.2	82.3	77.2	85.9

Dash (–) = No data reported.
NA = Not available.
W = Withheld to avoid disclosure of individual company data.
[a] Includes sales through retail outlets as well as all direct sales to end users that were not made through company-operated retail outlets, e.g., sales to agricultural customers, commercial sales, and industrial sales.
Notes: Motor gasoline averages and totals prior to October 1993 include leaded gasoline.
Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual.*
Sources: Energy Information Administration Forms EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report."

Table 32. Conventional Motor Gasoline Prices by Grade, Sales Type, PAD District, and State

(Cents per Gallon Excluding Taxes)

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average
United States												
September 1998	58.8	58.7	52.9	45.9	40.7	46.8	67.8	67.5	59.0	49.6	–	53.3
August 1998	60.0	59.9	52.9	45.0	41.0	46.2	69.2	68.8	59.4	48.8	–	53.0
September 1997	80.9	80.7	73.5	66.4	60.8	67.1	89.1	88.6	79.3	69.9	–	73.6
PAD District I												
September 1998	55.6	55.4	49.8	44.2	41.1	45.7	65.3	65.1	56.8	48.1	–	51.6
August 1998	56.9	56.6	49.7	42.7	40.7	44.7	66.7	66.4	56.9	46.8	–	50.9
September 1997	79.0	78.6	71.8	64.2	62.4	66.1	88.0	87.5	77.9	68.3	–	72.1
Subdistrict IA												
September 1998	65.4	65.2	57.2	47.4	–	51.8	75.7	75.3	64.8	51.6	–	58.7
August 1998	66.7	66.5	56.9	45.9	W	49.1	77.3	76.4	64.7	50.4	–	57.9
September 1997	90.4	89.1	80.9	69.9	64.5	72.1	100.0	98.9	87.8	74.3	–	81.6
Connecticut												
September 1998	–	–	–	–	–	–	–	–	–	–	–	–
August 1998	–	–	–	–	–	–	–	–	–	–	–	–
September 1997	–	–	–	–	–	–	–	–	–	–	–	–
Maine												
September 1998	68.1	67.8	56.8	47.4	–	50.3	78.4	78.0	64.7	51.6	–	57.1
August 1998	69.1	68.9	56.6	45.9	W	47.2	80.0	78.8	65.3	50.4	–	56.3
September 1997	92.2	91.9	79.9	69.7	W	72.0	101.6	100.4	87.4	74.0	–	79.9
Massachusetts												
September 1998	–	–	–	–	–	–	–	–	–	–	–	–
August 1998	–	–	–	–	–	–	–	–	–	–	–	–
September 1997	–	–	–	–	W	W	–	–	–	–	–	–
New Hampshire												
September 1998	62.9	62.8	56.1	47.0	–	52.0	72.9	72.6	61.7	51.3	–	59.8
August 1998	64.1	64.0	55.3	44.7	–	51.3	74.4	73.9	60.9	49.7	–	59.5
September 1997	NA	NA	80.3	69.6	–	77.2	NA	NA	84.9	74.1	–	82.5
Rhode Island												
September 1998	–	–	–	–	–	–	–	–	–	–	–	–
August 1998	–	–	–	–	–	–	–	–	–	–	–	–
September 1997	–	–	–	–	–	–	–	–	–	–	–	–
Vermont												
September 1998	62.1	62.5	57.8	47.6	–	54.6	71.4	70.9	66.1	51.8	–	61.9
August 1998	64.1	63.9	57.6	46.4	–	54.0	73.1	72.6	65.9	50.6	–	61.3
September 1997	88.4	85.8	81.9	70.7	–	78.1	97.5	96.5	89.1	75.7	–	85.2
Subdistrict IB												
September 1998	57.0	57.0	50.1	45.3	41.1	45.8	65.6	65.3	56.8	48.9	–	52.5
August 1998	58.6	58.3	50.8	44.0	40.5	45.2	67.3	66.8	57.2	47.7	–	52.1
September 1997	82.5	82.3	74.3	67.9	62.5	68.2	90.3	90.0	78.5	71.7	–	74.6
Delaware												
September 1998	–	–	–	–	–	–	–	–	–	–	–	–
August 1998	–	–	–	–	–	–	–	–	–	–	–	–
September 1997	–	–	–	–	–	–	–	–	–	–	–	–
District of Columbia												
September 1998	–	–	–	–	–	–	–	–	–	–	–	–
August 1998	–	–	–	–	–	–	–	–	–	–	–	–
September 1997	–	–	–	–	–	–	–	–	–	–	–	–
Maryland												
September 1998	59.0	58.9	50.2	43.7	–	45.2	68.1	68.0	60.5	48.3	–	50.9
August 1998	60.7	60.4	49.7	42.4	–	43.9	69.8	69.2	57.1	47.0	–	48.8
September 1997	84.3	83.3	70.7	64.8	–	65.9	92.2	90.8	79.9	69.5	–	71.4
New Jersey												
September 1998	–	–	–	–	40.0	40.0	–	–	–	–	–	–
August 1998	–	–	–	–	40.3	40.3	–	–	–	–	–	–
September 1997	–	–	–	–	62.5	62.5	–	–	–	–	–	–
New York												
September 1998	58.4	57.8	50.0	45.9	NA	47.2	67.2	65.7	55.5	49.8	–	52.7
August 1998	59.7	58.9	50.0	44.7	W	46.4	68.5	66.5	56.0	48.7	–	52.4
September 1997	85.1	84.7	76.7	69.5	59.6	71.5	93.9	92.5	81.4	74.0	–	77.5
Pennsylvania												
September 1998	56.1	56.3	50.2	45.0	42.4	46.1	64.9	65.0	57.1	48.6	–	52.6
August 1998	57.7	57.7	51.5	43.7	40.5	45.6	66.7	66.7	57.7	47.4	–	52.2
September 1997	80.9	80.9	72.8	67.0	62.7	68.2	89.2	89.1	77.5	71.3	–	74.0

See footnotes at end of table.

Table 32. Conventional Motor Gasoline Prices by Grade, Sales Type, PAD District, and State

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average
United States												
September 1998	75.3	74.6	64.3	55.3	46.2	57.4	62.6	62.3	55.8	47.7	41.2	49.0
August 1998	76.4	75.6	64.6	54.7	48.6	57.3	63.8	63.5	55.9	46.9	41.7	48.6
September 1997	97.0	96.2	85.8	75.6	66.1	78.1	84.2	83.9	76.3	68.0	61.2	69.2
PAD District I												
September 1998	73.5	72.8	61.3	53.9	47.9	56.5	60.5	60.3	53.3	46.5	41.9	48.5
August 1998	74.7	73.9	61.7	52.9	46.4	55.9	61.8	61.4	53.4	45.1	41.3	47.6
September 1997	96.4	95.4	84.9	74.3	66.3	77.0	83.3	82.8	75.4	66.4	63.1	68.8
Subdistrict IA												
September 1998	85.0	84.7	70.4	56.7	–	64.6	69.2	69.0	60.3	48.8	–	54.3
August 1998	86.3	86.0	70.0	55.6	–	63.4	70.7	70.4	60.1	47.6	W	51.8
September 1997	109.0	108.3	92.5	80.0	–	87.1	93.8	92.5	83.7	71.5	64.5	74.6
Connecticut												
September 1998	–	–	–	–	–	–	–	–	–	–	–	–
August 1998	–	–	–	–	–	–	–	–	–	–	–	–
September 1997	–	–	–	–	–	–	–	–	–	–	–	–
Maine												
September 1998	89.3	88.8	71.7	56.7	–	62.3	72.1	71.9	59.9	48.8	–	52.4
August 1998	90.0	89.7	71.2	55.6	–	60.9	73.4	73.1	59.9	47.6	W	49.4
September 1997	111.6	111.0	94.1	79.8	–	84.9	95.9	95.4	82.8	71.3	W	73.9
Massachusetts												
September 1998	–	–	–	–	–	–	–	–	–	–	–	–
August 1998	–	–	–	–	–	–	–	–	–	–	–	–
September 1997	–	–	–	–	–	–	–	–	–	–	W	W
New Hampshire												
September 1998	82.7	82.7	68.7	56.0	–	66.8	66.6	66.6	59.0	47.6	–	54.6
August 1998	83.4	83.4	68.0	55.4	–	66.3	68.0	67.9	58.3	45.6	–	54.3
September 1997	106.8	106.7	92.1	80.0	–	88.7	NA	NA	82.6	71.6	–	79.6
Rhode Island												
September 1998	–	–	–	–	–	–	–	–	–	–	–	–
August 1998	–	–	–	–	–	–	–	–	–	–	–	–
September 1997	–	–	–	–	–	–	–	–	–	–	–	–
Vermont												
September 1998	79.4	79.3	70.1	56.7	–	67.0	65.6	65.7	61.0	49.3	–	57.6
August 1998	81.4	81.1	69.7	55.5	–	66.2	67.5	67.2	60.9	48.2	–	57.0
September 1997	105.5	104.4	91.7	80.7	–	89.3	91.4	88.6	84.7	72.5	–	80.9
Subdistrict IB												
September 1998	73.3	72.8	61.4	54.6	47.4	55.8	60.6	60.4	52.7	47.0	41.8	47.8
August 1998	75.0	74.4	62.4	53.5	46.5	55.4	62.2	61.8	53.5	45.8	41.2	47.3
September 1997	98.7	97.9	85.7	77.4	66.3	76.0	85.6	85.4	76.5	69.5	63.3	70.0
Delaware												
September 1998	–	–	–	–	–	–	–	–	–	–	–	–
August 1998	–	–	–	–	–	–	–	–	–	–	–	–
September 1997	–	–	–	–	–	–	–	–	–	–	–	–
District of Columbia												
September 1998	–	–	–	–	–	–	–	–	–	–	–	–
August 1998	–	–	–	–	–	–	–	–	–	–	–	–
September 1997	–	–	–	–	–	–	–	–	–	–	–	–
Maryland												
September 1998	75.1	74.7	61.3	54.4	–	55.7	63.9	63.9	53.0	46.1	–	47.6
August 1998	76.6	75.6	62.4	52.8	–	54.5	65.3	64.9	52.5	44.8	–	46.3
September 1997	99.3	97.8	81.0	75.2	–	76.3	88.1	87.0	73.5	67.2	–	68.4
New Jersey												
September 1998	–	–	–	–	47.5	47.5	–	–	–	–	40.4	40.4
August 1998	–	–	–	–	45.2	45.2	–	–	–	–	40.7	40.7
September 1997	–	–	–	–	65.9	65.9	–	–	–	–	63.3	63.3
New York												
September 1998	74.1	72.6	61.2	55.3	W	57.3	61.3	60.6	52.1	47.4	NA	48.9
August 1998	75.5	74.0	61.2	54.2	–	56.9	62.7	61.7	52.3	46.3	W	48.3
September 1997	101.4	99.7	86.9	79.6	–	82.2	87.7	87.2	78.6	71.0	59.6	73.3
Pennsylvania												
September 1998	72.8	72.7	61.5	54.2	47.2	55.6	60.0	60.2	53.2	46.8	43.3	48.3
August 1998	74.7	74.5	63.2	53.2	47.6	55.6	61.7	61.7	54.5	45.6	42.0	47.9
September 1997	97.5	97.2	85.3	76.4	67.7	77.7	84.5	84.4	75.4	68.8	63.9	70.3

See footnotes at end of table.

Table 32. Conventional Motor Gasoline Prices by Grade, Sales Type, PAD District, and State

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average
Subdistrict IC												
September 1998	54.6	54.4	49.2	43.7	NA	45.4	64.9	64.7	56.5	47.8	–	51.2
August 1998	55.8	55.5	48.8	42.1	40.7	44.2	66.2	65.9	56.5	46.5	–	50.4
September 1997	77.1	76.7	70.0	62.6	59.3	64.7	86.8	86.3	77.3	67.4	–	71.2
Florida												
September 1998	55.5	55.1	48.7	43.7	W	45.1	66.6	66.1	56.6	47.5	–	51.3
August 1998	56.8	56.3	50.5	41.9	41.1	44.4	67.9	67.4	58.1	46.2	–	51.2
September 1997	79.1	78.3	73.7	62.9	W	65.7	89.3	88.7	82.1	67.5	–	73.7
Georgia												
September 1998	52.6	52.7	49.7	43.7	W	45.6	62.6	63.0	54.3	48.2	–	51.2
August 1998	53.3	53.3	46.5	42.3	–	43.6	63.2	63.5	52.3	47.1	–	49.5
September 1997	74.5	74.4	68.0	62.1	W	63.9	84.1	83.5	73.2	68.0	–	70.3
North Carolina												
September 1998	54.4	53.8	47.8	43.8	W	45.1	64.5	64.0	58.0	48.3	–	51.2
August 1998	55.8	55.2	48.1	42.2	W	44.2	66.3	65.8	58.4	47.0	–	50.6
September 1997	76.1	75.6	69.1	62.8	W	64.5	86.1	85.4	77.5	67.4	–	70.5
South Carolina												
September 1998	52.7	53.2	46.6	44.0	–	44.6	63.2	62.9	51.7	48.6	–	49.6
August 1998	53.8	54.4	45.6	42.3	W	43.1	64.2	64.0	50.4	47.1	–	48.1
September 1997	74.7	74.8	66.7	62.6	W	63.6	84.5	84.5	72.7	67.8	–	69.3
Virginia												
September 1998	57.3	57.4	51.5	42.7	W	45.5	67.0	66.6	61.5	45.3	–	50.8
August 1998	58.3	58.4	51.3	41.0	W	44.4	68.1	67.7	62.2	44.0	–	50.1
September 1997	79.3	79.0	69.7	62.1	W	64.1	88.3	87.7	74.3	65.3	–	68.5
West Virginia												
September 1998	56.5	56.5	55.6	47.7	–	52.5	65.6	65.4	61.6	52.9	–	58.4
August 1998	58.6	58.6	54.9	46.8	–	51.5	67.8	67.6	60.7	52.3	–	57.5
September 1997	80.8	80.6	71.4	66.2	–	69.6	89.4	89.0	77.7	70.5	–	75.3
PAD District II												
September 1998	59.0	59.0	52.7	46.2	42.8	47.2	67.2	67.1	58.6	50.5	–	53.6
August 1998	60.3	60.2	52.6	45.2	43.3	46.6	68.5	68.4	59.8	49.6	–	53.5
September 1997	79.6	79.7	70.5	65.6	62.0	66.5	86.7	86.5	76.8	69.3	–	72.3
Illinois												
September 1998	60.7	61.0	63.0	45.8	41.7	45.8	64.0	64.5	57.1	49.8	–	51.6
August 1998	62.4	62.5	62.7	44.4	43.4	45.2	65.5	65.9	59.8	49.0	–	51.9
September 1997	80.5	80.6	73.3	65.1	62.5	65.3	83.7	84.3	77.1	69.6	–	71.8
Indiana												
September 1998	59.7	59.7	52.8	44.9	41.2	46.5	68.4	68.2	57.8	48.9	–	52.6
August 1998	59.8	59.8	52.4	43.3	43.8	45.5	68.6	68.3	58.3	47.3	–	51.8
September 1997	79.5	79.1	69.5	63.5	62.1	65.3	86.9	86.2	75.7	67.3	–	71.3
Iowa												
September 1998	59.1	59.5	51.7	47.7	–	48.1	65.1	65.1	56.3	53.4	–	54.0
August 1998	61.1	61.5	51.3	47.1	–	47.5	66.3	66.5	55.6	52.9	–	53.6
September 1997	82.4	82.6	71.9	67.4	–	67.9	86.3	86.3	75.6	71.4	–	72.4
Kansas												
September 1998	58.9	58.7	51.6	46.6	W	46.9	64.3	64.2	NA	51.5	–	NA
August 1998	60.7	60.4	51.2	46.2	41.7	46.1	66.6	66.5	NA	51.2	–	52.8
September 1997	79.7	79.5	71.2	67.2	W	66.8	86.8	86.7	77.4	71.2	–	74.8
Kentucky												
September 1998	57.6	57.1	51.1	45.4	W	46.7	66.8	66.1	56.6	49.7	–	51.9
August 1998	59.0	58.4	49.9	43.8	W	45.2	68.1	67.5	55.4	48.5	–	50.9
September 1997	79.3	78.6	68.1	63.7	W	64.9	88.1	87.3	74.3	68.3	–	70.6
Michigan												
September 1998	58.7	58.6	51.0	47.3	–	48.8	68.7	68.7	58.6	50.4	–	56.1
August 1998	59.6	59.5	51.6	45.8	–	48.1	71.1	71.0	62.2	49.3	–	58.2
September 1997	77.4	77.6	69.3	65.7	–	67.1	86.2	86.2	76.3	68.2	–	74.2
Minnesota												
September 1998	–	–	–	47.8	W	47.5	–	–	–	53.4	–	53.4
August 1998	–	–	–	47.6	W	46.9	–	–	–	52.4	–	52.4
September 1997	88.7	88.3	73.8	68.8	W	69.7	89.9	89.5	84.1	74.1	–	76.8
Missouri												
September 1998	56.1	56.7	54.7	46.2	–	48.8	65.0	65.6	NA	51.3	–	55.4
August 1998	57.2	57.8	54.3	45.7	–	48.3	65.5	66.2	59.2	51.1	–	55.6
September 1997	80.7	81.1	72.8	66.4	–	68.7	89.9	89.7	81.0	71.1	–	77.6

See footnotes at end of table.

Table 32. Conventional Motor Gasoline Prices by Grade, Sales Type, PAD District, and State

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average
Subdistrict IC												
September 1998	73.2	72.5	60.9	53.7	50.6	56.4	60.1	59.8	53.1	46.3	42.8	48.6
August 1998	74.3	73.4	61.1	52.6	W	55.8	61.2	60.9	52.9	44.8	40.9	47.5
September 1997	95.6	94.5	84.3	73.3	W	77.0	82.0	81.5	74.4	65.2	60.5	68.0
Florida												
September 1998	73.5	72.5	62.9	53.8	W	57.7	61.1	60.7	54.7	46.3	43.2	49.1
August 1998	74.6	73.5	64.6	52.4	–	57.8	62.3	61.9	56.3	44.7	41.1	48.7
September 1997	96.8	95.2	89.1	73.7	W	80.5	84.0	83.3	79.9	65.6	W	70.2
Georgia												
September 1998	71.3	71.6	60.7	53.7	–	56.3	57.9	58.4	53.0	46.2	W	48.6
August 1998	71.7	71.7	58.4	53.0	–	55.0	58.4	58.8	50.2	44.9	–	46.7
September 1997	93.1	92.6	79.6	73.2	–	75.4	79.2	79.2	71.2	64.7	W	66.8
North Carolina												
September 1998	73.7	72.5	57.9	54.2	–	55.4	60.3	59.6	51.0	46.6	W	48.1
August 1998	75.2	74.0	58.6	53.1	–	55.0	61.7	60.9	51.5	45.1	W	47.3
September 1997	95.5	94.4	82.2	73.5	–	75.8	81.5	80.8	72.9	65.5	W	67.5
South Carolina												
September 1998	71.9	71.4	57.8	54.3	–	55.1	58.0	58.1	49.5	46.5	–	47.3
August 1998	72.9	72.4	57.1	53.1	–	54.0	59.1	59.2	48.4	45.0	W	45.9
September 1997	93.8	93.3	79.0	73.6	–	74.8	79.5	79.4	69.7	65.2	W	66.3
Virginia												
September 1998	75.6	75.4	61.5	51.4	W	55.2	62.6	62.6	54.9	44.7	NA	48.1
August 1998	76.7	76.2	61.5	50.3	W	54.4	63.6	63.5	54.8	43.2	NA	47.1
September 1997	97.3	96.4	80.8	71.5	W	73.9	83.9	83.6	72.7	64.2	62.3	66.5
West Virginia												
September 1998	74.4	74.1	67.4	58.1	–	63.8	60.4	60.4	58.4	50.0	–	55.1
August 1998	76.2	75.9	66.7	57.5	–	63.0	62.5	62.5	57.7	49.2	–	54.2
September 1997	98.4	97.7	84.7	75.9	–	81.2	84.4	84.1	74.0	68.3	–	72.0
PAD District II												
September 1998	74.7	74.1	64.4	55.4	47.2	57.6	61.9	61.8	55.1	47.8	42.9	49.1
August 1998	75.6	75.1	64.5	54.7	50.5	57.2	63.1	63.0	55.2	46.8	43.6	48.5
September 1997	93.8	93.3	82.6	74.0	67.9	76.7	82.0	81.9	72.9	66.8	62.1	68.1
Illinois												
September 1998	74.6	74.5	68.4	56.1	W	57.0	62.4	62.7	62.4	47.2	41.8	47.1
August 1998	76.3	76.2	68.8	55.2	W	56.3	64.1	64.3	62.6	46.1	43.6	46.7
September 1997	93.1	93.1	82.1	74.5	–	75.7	82.2	82.3	74.8	66.4	62.5	66.5
Indiana												
September 1998	75.9	75.4	64.2	54.9	W	57.3	63.3	63.3	55.3	46.7	41.4	48.7
August 1998	75.9	75.4	64.7	53.7	W	56.7	63.4	63.4	55.1	45.1	44.1	47.6
September 1997	92.4	91.4	81.0	72.4	W	75.6	82.4	81.9	71.9	65.0	62.2	67.2
Iowa												
September 1998	69.2	69.2	59.4	56.7	–	57.2	60.4	60.7	53.7	49.0	–	49.6
August 1998	70.6	70.6	58.9	56.1	–	56.6	62.3	62.6	53.2	48.4	–	49.0
September 1997	91.3	91.3	80.4	75.2	–	76.0	83.5	83.6	73.6	68.4	–	69.0
Kansas												
September 1998	71.1	70.9	59.7	54.0	W	54.1	60.3	60.1	52.7	47.4	W	47.7
August 1998	73.0	72.7	60.7	53.8	W	53.8	62.1	61.8	52.7	47.0	42.7	47.1
September 1997	93.1	92.6	80.6	74.6	W	75.5	81.2	80.8	72.6	67.8	W	67.6
Kentucky												
September 1998	76.5	75.2	62.2	55.3	–	57.0	62.1	61.4	53.8	47.6	W	49.1
August 1998	77.6	76.3	61.6	54.0	–	56.0	63.3	62.7	52.7	46.0	W	47.7
September 1997	96.6	94.9	80.2	73.5	–	75.4	83.0	82.2	70.9	65.8	W	67.2
Michigan												
September 1998	74.6	74.0	63.4	57.4	–	60.0	61.3	61.2	53.7	48.9	–	51.0
August 1998	75.5	74.9	64.1	56.5	–	59.8	62.4	62.2	54.7	47.5	–	50.6
September 1997	92.5	92.1	81.8	74.5	–	77.8	79.7	79.8	71.7	66.7	–	68.8
Minnesota												
September 1998	79.6	80.0	60.4	56.8	W	56.2	79.6	80.0	60.4	49.4	W	49.0
August 1998	81.5	81.9	59.8	56.6	W	56.3	81.5	81.9	59.8	49.4	W	48.7
September 1997	98.0	97.6	85.8	76.4	W	79.2	89.3	88.9	75.2	69.5	W	70.6
Missouri												
September 1998	73.0	73.0	66.4	54.8	–	59.3	58.8	59.3	57.0	47.5	–	50.6
August 1998	73.6	73.6	65.4	54.6	–	58.4	59.7	60.2	56.3	47.0	–	49.9
September 1997	97.7	97.5	86.7	74.3	–	80.8	83.1	83.3	75.9	67.4	–	70.7

See footnotes at end of table.

Table 32. Conventional Motor Gasoline Prices by Grade, Sales Type, PAD District, and State

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average
Nebraska												
September 1998	61.3	61.5	51.1	47.3	–	47.8	67.8	67.4	56.5	54.2	–	54.7
August 1998	62.5	62.5	51.2	46.8	–	47.5	68.8	68.1	58.1	53.9	–	54.8
September 1997	81.4	81.7	70.6	67.5	–	67.9	86.9	86.0	75.1	71.7	–	72.4
North Dakota												
September 1998	70.2	69.9	54.3	49.2	–	50.0	77.2	77.4	NA	56.0	–	NA
August 1998	72.6	71.9	55.4	49.1	–	50.2	79.1	78.4	NA	56.1	–	57.1
September 1997	89.2	89.4	76.1	69.9	–	71.1	97.3	96.9	80.8	75.0	–	77.5
Ohio												
September 1998	60.7	60.4	54.2	46.4	43.0	49.2	70.1	69.6	60.6	49.4	–	55.2
August 1998	61.8	61.5	54.0	45.2	42.6	48.3	71.1	70.7	61.0	48.6	–	55.1
September 1997	78.6	78.3	69.3	63.8	60.3	65.9	86.3	86.0	75.8	66.9	–	71.9
Oklahoma												
September 1998	57.1	57.0	48.8	45.9	43.2	44.8	62.9	62.9	55.2	47.7	–	52.6
August 1998	58.8	58.6	48.2	45.7	43.7	45.1	64.7	64.5	54.5	47.4	–	52.0
September 1997	77.3	77.2	68.7	66.2	61.8	64.4	83.7	83.0	73.0	68.8	–	71.2
South Dakota												
September 1998	69.1	69.5	55.0	48.9	–	50.5	71.5	72.1	57.0	NA	–	NA
August 1998	70.0	70.5	54.9	49.5	–	50.9	74.6	74.9	58.8	NA	–	NA
September 1997	87.5	87.6	76.9	69.5	–	71.2	90.4	90.9	NA	NA	–	NA
Tennessee												
September 1998	53.7	53.4	51.7	44.1	–	45.2	63.3	63.3	60.7	48.7	–	51.3
August 1998	55.1	54.9	51.9	42.7	–	44.1	65.1	65.0	60.9	47.5	–	50.3
September 1997	75.9	75.8	71.7	63.1	–	64.5	86.9	86.8	79.8	68.2	–	70.7
Wisconsin												
September 1998	61.0	61.0	53.0	46.0	W	46.7	68.6	68.7	NA	51.2	–	52.1
August 1998	62.5	62.3	51.9	44.8	W	45.5	70.1	70.1	NA	50.2	–	51.3
September 1997	81.5	81.0	70.2	65.3	W	65.8	88.9	89.1	77.3	70.3	–	71.5
PAD District III												
September 1998	56.1	56.0	50.3	43.0	38.9	42.5	66.7	66.1	55.9	46.9	–	49.7
August 1998	57.4	57.0	50.1	42.2	39.4	42.1	68.3	67.6	56.1	45.9	–	49.1
September 1997	78.8	78.2	70.2	64.1	59.0	62.7	87.8	87.1	76.0	67.8	–	70.1
Alabama												
September 1998	58.5	58.1	51.6	43.5	–	46.0	67.1	66.4	57.0	48.3	–	52.1
August 1998	60.2	59.8	51.1	42.5	–	45.2	69.2	68.2	57.0	47.0	–	51.6
September 1997	79.7	79.3	69.3	62.8	–	64.7	89.3	88.7	75.6	67.8	–	70.6
Arkansas												
September 1998	56.0	56.9	51.2	44.8	W	45.5	65.4	64.6	55.3	48.4	–	50.0
August 1998	57.0	57.0	50.9	43.3	W	44.5	66.4	65.6	54.0	46.8	–	48.5
September 1997	76.4	75.7	67.5	64.5	W	64.5	85.0	84.2	71.0	67.9	–	68.7
Louisiana												
September 1998	57.2	56.4	53.4	42.1	38.7	42.9	68.3	67.5	59.4	46.1	–	50.3
August 1998	58.1	57.2	53.0	40.7	38.8	42.0	69.5	68.6	59.6	44.8	–	50.3
September 1997	77.1	76.6	73.6	62.6	59.6	63.9	87.4	86.6	79.7	67.2	–	71.0
Mississippi												
September 1998	59.9	59.3	55.2	42.8	38.1	43.7	69.7	69.4	61.0	47.1	–	51.7
August 1998	60.9	60.2	54.0	41.2	38.6	42.9	71.0	70.5	60.0	45.7	–	50.5
September 1997	80.0	79.2	72.0	62.1	60.3	63.6	89.5	89.0	77.8	66.6	–	70.4
New Mexico												
September 1998	64.0	63.6	52.4	46.6	–	47.5	73.9	73.6	NA	51.1	–	52.2
August 1998	66.1	65.6	54.3	49.0	–	49.9	75.5	75.1	60.3	54.1	–	55.1
September 1997	87.4	87.1	75.1	72.4	–	72.8	94.1	93.8	81.4	76.6	–	77.3
Texas												
September 1998	53.4	53.6	46.0	42.2	39.0	40.9	63.5	63.1	49.4	45.8	–	46.6
August 1998	54.6	54.5	46.2	41.6	39.5	40.8	65.4	64.9	50.2	45.0	–	46.2
September 1997	77.4	76.9	68.9	64.0	58.9	61.3	86.3	85.5	73.9	67.3	–	68.7
PAD District IV												
September 1998	67.2	67.0	59.1	55.4	–	56.5	77.7	77.3	63.9	60.2	–	62.0
August 1998	68.2	68.0	60.1	56.5	–	57.5	78.6	78.2	64.4	60.6	–	62.3
September 1997	88.2	88.1	80.7	76.1	W	77.2	98.1	97.5	85.7	80.9	–	83.0
Colorado												
September 1998	64.6	64.1	52.9	47.8	–	49.2	78.6	77.9	57.9	52.0	–	54.5
August 1998	65.9	65.4	54.9	49.9	–	51.2	79.2	78.6	59.8	54.2	–	56.5
September 1997	87.2	86.9	78.6	71.2	W	72.7	98.8	98.2	85.3	75.3	–	79.5

See footnotes at end of table.

Table 32. Conventional Motor Gasoline Prices by Grade, Sales Type, PAD District, and State

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average
Nebraska												
September 1998	74.6	74.3	61.7	56.5	–	57.4	63.2	63.1	52.9	48.7	–	49.4
August 1998	76.0	75.8	61.8	55.4	–	56.6	64.4	64.1	53.2	48.2	–	49.0
September 1997	93.1	93.0	81.0	76.0	–	77.0	82.8	82.8	72.4	68.6	–	69.2
North Dakota												
September 1998	75.6	75.1	64.0	58.3	–	59.8	71.1	70.9	55.6	50.0	–	50.9
August 1998	78.1	77.7	65.2	58.7	–	60.3	73.4	72.8	56.7	50.0	–	51.2
September 1997	94.8	94.6	85.3	78.5	–	80.6	90.1	90.4	77.2	70.4	–	71.8
Ohio												
September 1998	78.1	77.3	67.4	56.5	–	61.4	64.3	63.9	57.2	48.1	43.0	51.5
August 1998	79.0	78.3	67.1	55.4	–	60.8	65.3	64.9	57.1	47.0	42.6	50.8
September 1997	93.5	93.0	81.8	73.3	W	77.2	81.6	81.3	72.0	65.2	61.8	68.0
Oklahoma												
September 1998	69.3	68.8	56.2	53.1	47.3	52.5	59.6	59.4	50.0	47.1	43.3	45.6
August 1998	71.2	70.8	55.7	53.0	50.1	53.2	61.5	61.2	49.4	46.9	43.9	46.0
September 1997	90.1	89.8	75.2	73.5	W	73.1	79.5	79.3	69.7	67.2	61.8	65.2
South Dakota												
September 1998	83.4	83.3	62.0	57.6	–	58.8	70.3	70.6	55.7	49.9	–	51.4
August 1998	85.6	85.6	64.4	60.0	–	61.4	71.8	72.1	56.2	50.6	–	52.1
September 1997	100.0	100.2	85.1	78.7	–	80.3	88.5	88.7	77.6	70.2	–	71.9
Tennessee												
September 1998	72.8	72.4	65.0	54.2	–	55.7	59.1	58.9	56.0	46.9	–	48.3
August 1998	74.0	73.5	65.6	53.2	–	54.9	60.4	60.1	56.0	45.5	–	47.1
September 1997	95.6	95.1	85.4	73.4	–	75.4	81.3	81.1	75.6	65.8	–	67.5
Wisconsin												
September 1998	75.5	75.1	62.9	56.2	–	56.9	63.1	63.1	54.4	47.3	W	48.0
August 1998	75.7	75.3	62.3	55.6	W	56.3	64.6	64.4	53.5	46.3	W	47.0
September 1997	93.0	92.6	81.4	74.2	–	75.1	83.1	82.6	71.9	66.4	W	67.0
PAD District III												
September 1998	72.9	72.0	62.0	52.8	44.3	52.9	60.4	60.0	53.2	45.1	39.4	44.5
August 1998	73.9	73.0	62.6	52.1	46.2	53.0	61.7	61.0	53.3	44.2	39.9	44.2
September 1997	96.0	94.8	81.8	73.6	63.9	73.7	82.6	81.8	73.0	65.9	59.2	64.6
Alabama												
September 1998	74.2	73.3	64.1	54.1	–	57.1	63.2	62.7	55.0	46.4	–	49.2
August 1998	76.1	75.2	64.7	53.7	–	57.1	64.9	64.4	54.9	45.5	–	48.6
September 1997	97.7	96.8	82.6	73.6	–	76.2	84.5	84.0	72.9	65.6	–	67.7
Arkansas												
September 1998	73.4	73.0	62.1	54.4	W	54.4	59.5	59.8	53.6	46.8	W	47.7
August 1998	74.6	72.9	62.0	53.3	W	54.2	60.5	60.0	53.3	45.4	W	46.7
September 1997	92.7	91.0	77.5	74.1	W	73.5	79.4	78.5	69.6	66.3	W	66.3
Louisiana												
September 1998	77.0	75.1	66.1	51.9	44.7	51.2	62.9	62.0	57.2	44.6	40.7	45.6
August 1998	77.8	75.5	67.1	50.6	W	52.8	63.9	62.8	57.4	43.2	40.7	45.1
September 1997	95.8	94.3	86.3	72.6	W	74.3	82.2	81.5	77.3	65.1	60.4	66.7
Mississippi												
September 1998	75.7	74.2	65.8	53.0	W	54.6	64.6	63.8	57.8	45.3	38.4	46.1
August 1998	74.7	73.5	65.9	51.7	W	53.8	65.3	64.6	56.9	43.7	39.3	45.6
September 1997	98.5	96.3	84.2	72.4	–	75.0	84.4	83.5	74.7	64.4	60.3	65.9
New Mexico												
September 1998	80.4	80.0	61.9	56.3	–	57.3	67.1	66.7	54.3	48.3	–	49.3
August 1998	83.1	82.4	65.7	58.7	–	60.1	69.3	68.7	56.6	50.7	–	51.7
September 1997	101.9	101.4	81.0	81.7	–	81.6	89.7	89.4	76.4	73.9	–	74.3
Texas												
September 1998	69.7	69.1	56.0	51.3	43.4	50.2	57.1	57.0	48.0	43.8	39.2	42.1
August 1998	70.8	70.3	56.1	50.8	45.4	49.9	58.3	58.0	48.2	43.2	39.8	41.9
September 1997	94.2	93.5	78.7	73.2	63.8	71.3	80.8	80.2	70.9	65.5	59.1	62.5
PAD District IV												
September 1998	85.4	83.6	68.4	65.4	–	66.5	71.7	71.1	61.8	57.6	–	58.9
August 1998	85.9	84.1	69.2	66.8	–	67.6	72.5	72.0	62.6	58.7	–	59.9
September 1997	105.0	104.1	90.1	86.6	W	87.5	92.2	91.7	83.2	78.3	W	79.6
Colorado												
September 1998	85.8	83.5	62.0	57.2	–	58.8	70.3	69.4	55.6	49.8	–	51.6
August 1998	86.2	83.9	64.0	59.4	–	60.9	71.3	70.4	57.6	51.9	–	53.5
September 1997	105.6	104.5	89.6	80.8	W	83.1	91.6	91.2	81.8	73.0	W	75.1

See footnotes at end of table.

Table 32. Conventional Motor Gasoline Prices by Grade, Sales Type, PAD District, and State

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average
Idaho												
September 1998	72.0	72.2	64.7	61.3	–	62.5	80.1	80.1	69.6	66.0	–	67.7
August 1998	71.7	72.1	64.6	60.5	–	61.9	80.5	80.4	69.3	65.3	–	67.0
September 1997	90.3	91.0	83.8	81.6	–	82.3	101.2	100.9	88.0	85.8	–	86.8
Montana												
September 1998	72.8	73.2	61.8	59.1	–	59.4	79.0	79.2	66.4	64.0	–	64.2
August 1998	73.3	73.7	63.1	61.2	–	61.5	79.3	79.4	67.5	66.2	–	66.4
September 1997	89.5	89.7	79.8	77.5	–	77.7	95.8	96.0	85.1	82.2	–	82.6
Utah												
September 1998	66.3	65.5	59.3	58.5	–	58.8	74.4	74.1	65.6	64.8	–	65.3
August 1998	67.0	66.3	59.6	57.3	–	58.2	75.8	75.4	NA	63.4	–	64.5
September 1997	88.2	87.4	80.5	78.3	–	79.1	96.3	95.3	85.3	83.8	–	84.6
Wyoming												
September 1998	74.4	72.6	62.1	54.3	–	55.7	81.5	80.4	66.5	64.2	–	65.2
August 1998	75.7	74.5	63.9	56.9	–	58.3	82.5	81.3	67.7	63.6	–	65.1
September 1997	91.8	90.5	81.5	75.8	–	76.8	100.2	98.1	86.1	82.1	–	83.9
PAD District V												
September 1998	72.1	70.4	62.4	53.6	47.1	56.2	80.8	79.5	69.4	59.1	–	65.3
August 1998	72.9	71.5	62.1	53.9	47.2	56.4	81.1	80.2	68.3	59.9	–	65.0
September 1997	99.1	98.2	87.5	81.7	76.3	83.7	107.5	107.0	93.2	89.7	–	91.9
Alaska												
September 1998	93.7	92.6	83.9	65.2	W	71.7	101.4	100.5	82.0	W	–	81.4
August 1998	94.5	95.0	84.0	67.5	W	73.0	103.8	102.3	83.7	80.6	–	82.2
September 1997	116.2	114.9	100.0	83.5	–	91.5	121.0	120.0	102.6	94.8	–	99.7
Arizona												
September 1998	66.0	65.2	54.3	48.7	46.4	50.9	75.2	74.9	62.2	54.4	–	58.7
August 1998	67.9	67.2	55.6	48.6	45.6	51.5	76.0	75.8	64.3	54.4	–	60.3
September 1997	97.3	96.1	84.7	80.2	77.3	82.3	105.1	104.7	90.7	87.2	–	89.7
California												
September 1998	–	–	–	50.6	47.1	47.5	–	–	–	55.4	–	55.4
August 1998	–	–	–	50.8	46.8	47.1	–	–	–	54.6	–	54.6
September 1997	–	–	–	83.7	78.2	78.9	–	–	–	90.1	–	90.1
Hawaii												
September 1998	105.0	90.8	93.4	80.8	–	91.4	111.4	102.2	97.7	87.1	–	97.3
August 1998	105.6	91.5	94.0	79.5	–	91.9	111.9	102.6	98.2	84.3	–	97.8
September 1997	110.7	106.0	103.2	86.4	W	90.8	118.6	114.8	107.7	W	–	107.4
Nevada												
September 1998	71.5	65.2	56.6	53.0	47.8	53.6	79.5	74.7	63.8	57.3	–	61.4
August 1998	70.9	66.8	55.9	52.1	48.0	53.2	78.8	75.5	61.5	57.5	–	60.1
September 1997	95.3	94.8	81.2	83.6	NA	82.8	107.8	107.5	85.3	92.0	–	88.0
Oregon												
September 1998	70.4	69.9	60.2	52.3	48.0	54.1	80.8	79.8	67.6	59.4	–	63.5
August 1998	71.0	70.5	59.0	52.4	48.0	54.0	80.4	79.5	65.5	59.8	–	62.6
September 1997	99.7	98.5	86.4	84.0	77.6	84.4	110.0	108.7	94.0	91.9	–	93.0
Washington												
September 1998	68.1	68.1	60.9	53.9	46.2	56.7	78.8	78.8	66.9	60.2	–	64.3
August 1998	69.2	69.2	61.2	55.0	47.4	57.5	79.6	79.8	67.3	61.5	–	65.0
September 1997	96.4	96.3	86.6	79.0	76.0	82.8	105.2	104.8	92.8	88.5	–	91.1

See footnotes at end of table.

Table 32. Conventional Motor Gasoline Prices by Grade, Sales Type, PAD District, and State

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average
Idaho												
September 1998	88.2	86.9	75.4	71.5	–	73.0	74.8	74.6	66.8	63.0	–	64.4
August 1998	87.8	86.9	75.1	70.6	–	72.2	74.7	74.7	66.6	62.2	–	63.7
September 1997	105.9	105.5	93.6	91.5	–	92.3	93.1	93.5	85.6	83.0	–	83.9
Montana												
September 1998	85.7	85.6	73.2	70.5	–	70.9	75.5	75.6	64.1	61.4	–	61.7
August 1998	86.3	86.3	74.4	72.9	–	73.1	76.0	76.1	65.4	63.6	–	63.9
September 1997	100.5	100.4	90.5	89.2	–	89.3	91.8	91.8	81.6	80.1	–	80.3
Utah												
September 1998	82.6	81.0	69.1	68.3	–	68.7	70.5	69.5	62.8	61.4	–	62.0
August 1998	83.6	81.8	69.2	67.3	–	68.2	71.2	70.3	63.1	60.2	–	61.4
September 1997	105.3	104.5	88.9	88.3	–	88.5	92.6	91.5	83.2	80.8	–	81.8
Wyoming												
September 1998	87.6	86.0	NA	64.5	–	66.5	77.7	75.7	64.8	56.4	–	58.0
August 1998	87.9	86.3	75.0	67.0	–	68.7	78.7	77.3	66.5	59.1	–	60.6
September 1997	104.7	102.2	91.3	85.6	–	86.8	94.7	92.9	83.7	77.6	–	78.8
PAD District V												
September 1998	91.6	89.5	77.8	66.3	51.2	69.2	75.8	73.9	65.6	55.6	47.9	58.8
August 1998	91.8	90.5	76.9	66.8	54.0	68.0	76.4	75.0	65.1	56.1	49.1	59.0
September 1997	117.3	115.8	102.0	94.3	76.4	96.9	102.1	101.2	90.2	83.7	76.3	86.1
Alaska												
September 1998	109.1	109.0	92.6	75.7	–	82.1	95.8	94.8	84.6	66.3	W	72.8
August 1998	109.7	109.6	92.4	79.1	–	84.9	96.8	97.2	84.8	68.7	W	74.3
September 1997	130.9	130.3	108.9	97.3	–	104.1	118.0	116.8	100.7	84.4	–	92.5
Arizona												
September 1998	85.9	85.3	67.6	61.0	W	63.0	69.8	69.0	56.7	50.7	47.3	53.0
August 1998	87.1	86.4	69.2	60.9	W	65.0	71.6	70.8	58.5	50.8	46.0	53.9
September 1997	114.8	114.1	96.8	89.8	NA	92.9	100.1	98.9	86.9	82.2	76.9	84.4
California												
September 1998	–	–	–	63.1	49.9	50.9	–	–	–	52.9	47.7	48.3
August 1998	–	–	–	62.4	W	W	–	–	–	52.8	48.2	48.5
September 1997	–	–	–	95.4	78.7	82.9	–	–	–	85.9	78.2	79.4
Hawaii												
September 1998	121.2	107.0	104.8	92.9	–	103.4	109.7	95.8	97.2	84.0	–	95.4
August 1998	122.5	109.1	105.3	91.4	–	103.8	110.3	96.6	97.7	82.5	–	95.8
September 1997	127.8	121.0	114.9	97.8	–	113.3	115.7	110.4	107.2	89.3	W	97.6
Nevada												
September 1998	86.7	82.0	70.5	62.5	54.2	64.8	75.1	68.8	60.1	54.6	48.6	55.9
August 1998	84.6	84.3	69.3	63.3	W	65.8	73.9	70.0	59.3	54.2	48.3	55.9
September 1997	112.5	111.8	93.3	94.1	NA	93.7	98.7	98.1	83.8	85.5	NA	84.8
Oregon												
September 1998	89.4	88.3	74.2	67.3	NA	67.0	73.4	72.7	62.6	54.5	48.4	56.3
August 1998	90.0	88.3	73.2	67.6	NA	66.1	73.9	73.3	61.3	54.7	50.2	56.3
September 1997	118.2	115.8	101.2	98.3	NA	94.7	102.2	101.0	88.7	85.7	76.4	86.0
Washington												
September 1998	88.5	88.3	74.7	67.3	NA	69.2	72.6	72.3	63.8	56.2	47.4	59.3
August 1998	89.4	89.1	74.8	68.4	NA	68.8	73.6	73.5	64.0	57.3	50.7	60.1
September 1997	114.9	114.4	101.1	93.1	W	97.2	100.0	99.8	89.3	81.5	77.2	85.5

Dash (–) = No data reported.
NA = Not available.
W = Withheld to avoid disclosure of individual company data.
[a] Includes sales through retail outlets as well as all direct sales to end users that were not made through company-operated retail outlets, e.g., sales to agricultural customers, commercial sales, and industrial sales.
Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual.*
Sources: Energy Information Administration Forms EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report."

Table 33. Oxygenated Motor Gasoline Prices by Grade, Sales Type, and PAD District

(Cents per Gallon Excluding Taxes)

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average
United States												
September 1998	67.8	67.9	60.7	54.1	W	57.1	74.4	74.2	65.6	55.3	–	59.2
August 1998	69.0	69.1	60.7	53.8	W	56.9	75.0	74.9	65.3	54.7	–	58.5
September 1997	91.3	91.1	84.7	74.8	–	78.4	98.0	98.0	88.3	77.7	–	81.5
PAD District I												
September 1998	–	–	–	–	–	–	–	–	–	–	–	–
August 1998	–	–	–	–	–	–	–	–	–	–	–	–
September 1997	–	–	–	–	–	–	–	–	–	–	–	–
PAD District II												
September 1998	69.0	69.1	60.0	54.2	–	56.3	74.4	74.2	NA	55.0	–	57.1
August 1998	70.2	70.2	59.8	53.7	–	55.9	75.1	75.0	NA	54.6	–	56.8
September 1997	93.0	92.6	80.1	71.5	–	73.4	98.0	98.0	82.1	72.2	–	74.9
PAD District III												
September 1998	W	W	W	48.5	–	48.5	W	W	W	54.1	–	53.8
August 1998	–	–	W	–	–	W	–	–	W	–	–	W
September 1997	W	W	W	77.5	–	76.8	W	W	W	85.2	–	84.0
PAD District IV												
September 1998	–	–	–	51.7	–	51.7	–	–	–	53.5	–	53.5
August 1998	–	–	–	53.8	–	53.8	–	–	–	55.4	–	55.4
September 1997	W	W	W	74.6	–	74.7	W	W	W	76.6	–	76.6
PAD District V												
September 1998	W	62.7	61.6	57.4	W	60.8	W	74.3	68.8	63.8	–	68.1
August 1998	W	W	W	W	W	61.9	W	W	W	W	–	W
September 1997	88.6	88.7	87.4	87.9	–	87.6	98.3	98.3	92.4	90.3	–	91.6

See footnotes at end of table.

Table 33. Oxygenated Motor Gasoline Prices by Grade, Sales Type, and PAD District

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average
United States												
September 1998	81.5	81.4	73.1	61.1	–	67.5	69.7	69.6	62.8	54.9	W	58.5
August 1998	81.3	81.3	71.7	59.8	–	66.4	70.7	70.7	62.6	54.4	W	58.0
September 1997	106.4	106.2	96.5	81.5	–	86.5	93.3	93.1	86.3	75.8	–	79.6
PAD District I												
September 1998	–	–	–	–	–	–	–	–	–	–	–	–
August 1998	–	–	–	–	–	–	–	–	–	–	–	–
September 1997	–	–	–	–	–	–	–	–	–	–	–	–
PAD District II												
September 1998	80.1	80.2	68.7	59.9	–	64.1	70.6	70.5	61.4	54.8	–	57.1
August 1998	80.7	80.8	68.3	59.3	–	63.9	71.6	71.6	61.3	54.2	–	56.8
September 1997	105.3	105.3	88.2	75.4	–	78.1	94.6	94.2	81.1	71.9	–	74.0
PAD District III												
September 1998	W	W	W	57.3	–	57.4	W	W	W	50.5	–	50.4
August 1998	–	–	W	–	–	W	–	–	W	–	–	W
September 1997	W	W	W	86.2	–	85.9	W	W	W	79.4	–	78.7
PAD District IV												
September 1998	–	–	–	58.7	–	58.7	–	–	–	53.0	–	53.0
August 1998	–	–	–	60.4	–	60.4	–	–	–	55.0	–	55.0
September 1997	W	W	W	81.1	–	81.1	W	W	W	75.8	–	75.8
PAD District V												
September 1998	86.6	86.0	77.4	70.9	–	76.1	W	65.7	64.5	59.9	W	63.7
August 1998	W	W	79.1	NA	–	79.0	W	W	W	W	W	64.5
September 1997	109.0	108.9	100.7	99.9	–	100.4	91.1	91.2	89.3	89.7	–	89.4

Dash (–) = No data reported.
NA = Not available.
W = Withheld to avoid disclosure of individual company data.
[a] Includes sales through retail outlets as well as all direct sales to end users that were not made through company-operated retail outlets, e.g., sales to agricultural customers, commercial sales, and industrial sales.
Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual.*
Sources: Energy Information Administration Forms EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report."

Table 34. Reformulated Motor Gasoline Prices by Grade, Sales Type, PAD District, and Selected States

(Cents per Gallon Excluding Taxes)

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average
United States												
September 1998	62.7	62.3	58.4	49.1	46.1	52.8	72.7	72.3	64.6	53.1	W	60.9
August 1998	64.1	63.6	59.4	48.1	45.2	52.8	74.2	73.7	65.7	52.4	W	61.3
September 1997	87.9	87.0	83.7	71.9	68.6	76.7	97.1	96.3	89.4	75.9	W	85.3
PAD District I												
September 1998	59.0	58.7	55.7	47.2	43.4	50.2	69.3	68.7	62.1	51.4	–	58.1
August 1998	60.5	60.1	57.0	46.1	42.4	49.9	71.0	70.2	63.6	50.8	–	58.7
September 1997	86.4	85.6	80.4	69.8	65.1	73.9	95.3	94.0	86.0	74.2	–	81.9
Subdistrict IA												
September 1998	59.4	58.9	54.9	47.6	44.6	50.7	70.0	69.2	62.1	51.4	–	57.4
August 1998	61.3	60.7	55.6	46.4	44.2	50.0	71.8	70.7	63.2	50.2	–	57.5
September 1997	88.7	87.8	81.0	71.3	65.0	74.5	97.8	96.3	87.9	75.5	–	82.4
Connecticut												
September 1998	57.7	57.5	56.0	47.3	NA	51.8	69.1	67.4	61.8	51.5	–	57.4
August 1998	59.7	59.3	57.1	45.9	W	51.2	70.4	69.0	62.8	50.2	–	57.6
September 1997	88.3	87.9	80.6	71.3	63.6	74.7	97.8	95.3	86.4	75.1	–	81.4
Maine												
September 1998	63.5	63.4	54.8	48.7	–	50.3	74.0	73.5	60.0	52.3	–	54.9
August 1998	65.5	65.4	54.8	47.4	W	47.9	76.3	74.8	59.9	50.7	–	53.7
September 1997	89.3	89.2	79.4	71.6	W	73.4	98.1	97.7	83.7	75.8	–	78.1
Massachusetts												
September 1998	59.4	58.6	54.3	47.4	43.7	50.5	70.1	69.5	63.0	51.0	–	58.3
August 1998	61.1	60.2	54.5	46.4	NA	50.2	72.0	71.0	64.1	50.4	–	58.6
September 1997	89.0	87.5	81.1	70.8	65.3	74.2	98.1	96.7	89.3	75.3	–	83.7
New Hampshire												
September 1998	61.8	61.7	56.4	47.6	W	50.8	72.0	72.1	62.6	50.6	–	59.1
August 1998	63.0	62.8	56.6	47.0	W	49.1	73.3	73.2	62.7	48.3	–	58.4
September 1997	89.6	89.4	82.5	70.2	–	78.0	98.5	98.5	88.2	75.1	–	85.7
Rhode Island												
September 1998	55.8	55.8	51.8	47.6	–	48.8	65.8	65.7	58.1	51.3	–	54.3
August 1998	58.3	58.1	54.4	46.0	–	48.5	67.9	67.6	61.0	49.9	–	54.6
September 1997	86.2	86.1	82.1	72.8	–	75.5	94.1	93.7	87.6	77.0	–	81.7
Subdistrict IB												
September 1998	59.6	59.3	56.4	47.0	43.3	49.9	70.0	69.4	62.5	51.4	–	58.9
August 1998	60.8	60.4	58.0	45.8	42.0	49.7	71.2	70.4	64.0	50.7	–	59.6
September 1997	85.6	84.8	80.5	69.3	65.1	73.9	94.7	93.5	85.8	74.2	–	82.4
Delaware												
September 1998	56.8	56.5	51.5	45.1	–	47.6	68.8	67.9	58.3	48.7	–	53.1
August 1998	57.7	57.4	52.5	44.2	–	47.4	70.2	69.4	59.6	48.4	–	53.4
September 1997	82.0	81.4	75.7	69.8	–	72.2	91.7	90.6	81.3	73.4	–	77.5
District of Columbia												
September 1998	W	56.3	60.1	–	–	60.1	W	67.8	NA	–	–	NA
August 1998	W	57.7	61.9	–	–	61.9	W	68.9	NA	–	–	NA
September 1997	W	75.8	80.3	–	–	80.3	W	85.6	83.3	–	–	83.3
Maryland												
September 1998	56.6	56.0	56.0	46.3	–	52.7	66.7	65.8	61.8	50.1	–	58.9
August 1998	58.1	57.7	57.9	46.2	W	53.6	67.8	66.4	63.7	50.6	–	60.2
September 1997	83.6	81.7	76.9	66.3	–	73.2	91.8	88.2	82.1	69.7	–	79.0
New Jersey												
September 1998	61.2	61.4	57.0	47.4	43.3	48.2	72.3	72.4	62.7	52.7	–	58.7
August 1998	62.3	62.3	58.0	46.0	42.0	47.4	73.5	73.4	63.6	51.7	–	58.8
September 1997	87.0	86.7	82.3	69.6	64.8	72.6	97.2	96.6	88.1	76.9	–	84.5
New York												
September 1998	63.1	62.7	59.7	47.2	44.1	53.2	73.1	72.1	66.1	50.2	–	62.1
August 1998	63.9	63.4	61.3	45.6	41.4	53.5	73.8	72.5	67.7	49.1	–	63.2
September 1997	88.6	87.8	84.5	70.0	67.6	77.0	97.1	96.4	90.6	73.9	–	86.6

See footnotes at end of table.

Table 34. Reformulated Motor Gasoline Prices by Grade, Sales Type, PAD District, and Selected States

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average
United States												
September 1998	80.2	79.5	71.3	57.8	48.9	64.7	67.4	66.9	62.5	51.1	46.5	56.2
August 1998	81.5	80.7	72.5	57.1	49.1	65.4	68.8	68.2	63.5	50.2	45.7	56.4
September 1997	104.7	103.8	96.1	81.2	75.0	89.8	92.0	91.1	87.3	73.9	69.4	80.2
PAD District I												
September 1998	77.3	76.4	68.8	56.2	48.9	62.8	64.4	64.0	60.4	49.6	44.2	54.1
August 1998	78.7	77.6	70.3	55.4	48.2	63.4	66.0	65.4	61.7	48.6	43.1	53.9
September 1997	102.9	101.5	93.4	80.0	72.0	87.4	90.8	89.9	84.7	72.3	66.1	77.8
Subdistrict IA												
September 1998	78.2	76.7	67.5	56.2	W	61.2	63.9	63.3	58.2	49.6	45.2	53.4
August 1998	80.2	78.3	68.0	55.2	48.9	60.4	65.8	65.1	58.9	48.4	44.9	52.7
September 1997	105.2	102.7	93.5	81.3	72.3	86.1	92.2	91.2	84.1	73.3	66.1	77.3
Connecticut												
September 1998	77.7	76.9	69.3	57.1	W	61.6	62.8	62.4	59.0	49.6	W	54.3
August 1998	79.5	78.6	68.9	55.6	W	60.8	64.7	64.2	59.9	48.2	45.1	53.7
September 1997	104.8	103.4	93.0	81.7	W	85.1	92.2	91.4	83.5	73.5	65.5	77.3
Maine												
September 1998	82.7	81.2	65.9	56.9	–	59.2	67.2	66.9	56.9	50.2	–	52.0
August 1998	84.7	82.5	66.0	55.8	W	56.2	69.3	68.9	57.0	49.1	W	49.5
September 1997	106.4	104.8	90.7	81.3	–	83.5	92.0	91.8	81.2	73.2	W	75.1
Massachusetts												
September 1998	77.8	75.8	66.9	55.3	W	61.3	64.0	63.1	57.9	49.3	43.9	53.4
August 1998	80.0	77.2	67.6	54.6	50.5	60.9	65.8	64.7	58.4	48.5	NA	53.2
September 1997	105.5	101.6	93.6	80.5	W	86.8	92.6	90.9	84.6	72.8	66.2	77.2
New Hampshire												
September 1998	80.7	80.5	68.4	55.1	–	63.1	65.8	65.7	59.2	49.0	W	53.1
August 1998	81.8	81.7	68.6	54.4	–	63.1	67.0	66.8	59.5	48.4	W	51.5
September 1997	106.8	106.7	94.7	79.9	–	90.1	92.8	92.6	85.1	71.8	–	80.6
Rhode Island												
September 1998	74.1	73.9	64.8	57.0	–	59.7	60.1	60.1	55.3	49.7	–	51.5
August 1998	76.6	76.2	67.5	55.8	–	59.6	62.5	62.4	58.1	48.3	–	51.4
September 1997	101.3	100.9	94.9	82.9	–	86.9	89.4	89.3	85.4	74.9	–	78.2
Subdistrict IB												
September 1998	78.0	77.2	69.6	56.0	49.0	63.6	65.8	65.3	61.6	49.6	44.1	54.5
August 1998	78.7	77.8	71.2	55.1	47.9	64.6	66.9	66.3	63.2	48.6	42.6	54.5
September 1997	102.8	101.6	94.0	79.8	72.0	88.4	90.8	89.9	85.4	72.1	66.1	78.5
Delaware												
September 1998	77.3	76.6	65.6	54.4	–	59.0	62.0	61.4	55.0	47.2	–	50.4
August 1998	78.1	77.2	66.9	53.9	–	59.0	63.0	62.5	56.1	46.4	–	50.2
September 1997	101.0	99.7	89.4	79.8	–	84.0	86.1	85.5	78.9	71.8	–	74.9
District of Columbia												
September 1998	W	72.5	NA	–	–	NA	W	62.2	65.0	–	–	65.0
August 1998	W	73.6	NA	W	–	NA	W	63.7	NA	W	–	NA
September 1997	W	91.5	89.3	–	–	89.3	W	81.2	84.7	–	–	84.7
Maryland												
September 1998	71.4	70.3	66.1	55.3	W	62.8	61.1	60.5	59.7	48.8	W	56.3
August 1998	72.8	71.8	67.8	55.9	–	64.5	62.5	62.0	61.6	48.8	W	57.3
September 1997	97.6	95.1	87.1	75.4	W	84.0	87.4	85.2	80.4	68.5	W	76.6
New Jersey												
September 1998	80.8	80.6	70.6	56.6	49.0	62.2	67.7	67.7	62.0	50.1	43.9	52.0
August 1998	81.6	81.3	71.7	55.6	47.8	62.8	68.8	68.6	63.0	48.9	42.5	51.5
September 1997	105.7	104.9	96.4	80.8	71.4	88.2	92.6	92.2	87.2	72.9	65.6	77.2
New York												
September 1998	79.0	78.1	72.5	55.3	49.6	66.4	69.7	69.0	66.2	49.9	46.4	59.3
August 1998	78.6	77.7	74.3	53.4	48.2	67.4	70.1	69.4	67.9	48.2	44.0	59.9
September 1997	103.2	102.3	97.2	79.9	73.8	91.4	94.0	93.1	90.5	73.0	69.3	83.0

See footnotes at end of table.

Table 34. Reformulated Motor Gasoline Prices by Grade, Sales Type, PAD District, and Selected States

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average
Pennsylvania												
September 1998	56.0	55.8	51.5	47.0	W	49.7	66.7	66.4	56.7	51.9	–	54.9
August 1998	57.4	57.0	53.8	46.3	W	50.7	68.4	68.0	58.7	50.5	–	55.6
September 1997	81.9	81.4	77.3	71.0	–	74.9	91.6	90.9	81.8	75.1	–	79.5
Subdistrict IC												
September 1998	56.2	56.0	54.5	46.7	–	49.9	66.1	65.8	60.1	51.4	–	56.2
August 1998	58.0	57.7	56.6	46.2	–	50.3	68.7	68.2	62.3	52.3	–	57.6
September 1997	82.8	82.2	77.3	66.8	W	71.4	92.3	91.3	83.0	71.5	–	78.3
Virginia												
September 1998	56.2	56.0	54.5	46.7	–	49.9	66.1	65.8	60.1	51.4	–	56.2
August 1998	58.0	57.7	56.6	46.2	–	50.3	68.7	68.2	62.3	52.3	–	57.6
September 1997	82.8	82.2	77.3	66.8	W	71.4	92.3	91.3	83.0	71.5	–	78.3
PAD District II												
September 1998	65.1	65.0	58.4	52.7	–	55.5	74.8	74.4	64.5	55.8	–	61.6
August 1998	67.0	66.8	58.8	51.3	W	54.9	76.7	76.2	66.0	54.3	–	62.1
September 1997	83.9	83.6	76.5	69.4	W	73.0	93.8	93.2	82.9	73.0	–	80.2
Illinois												
September 1998	67.3	67.1	60.2	53.3	–	57.4	77.0	76.2	65.6	56.9	–	63.9
August 1998	69.3	69.0	61.0	51.8	W	57.0	79.1	78.2	67.2	55.3	–	64.8
September 1997	84.8	84.4	78.5	69.4	W	74.8	95.0	94.1	83.5	72.3	–	81.7
Indiana												
September 1998	59.2	59.5	56.0	53.4	–	54.4	69.6	69.4	60.5	57.1	–	58.3
August 1998	61.0	61.3	56.1	52.0	–	53.8	70.6	70.4	62.0	55.8	–	58.2
September 1997	80.9	81.0	76.6	70.3	–	72.4	90.2	89.7	82.8	74.6	–	78.0
Kentucky												
September 1998	60.0	60.0	55.7	48.8	–	51.9	70.5	70.8	60.7	51.7	–	55.8
August 1998	62.2	62.0	56.2	47.6	–	51.3	72.6	72.9	62.3	50.7	–	55.6
September 1997	82.0	81.6	74.2	69.0	–	71.6	91.7	91.5	80.6	72.9	–	77.1
Wisconsin												
September 1998	64.4	64.7	55.8	53.8	–	54.5	72.7	73.1	61.7	57.5	–	59.6
August 1998	65.3	65.6	55.8	52.7	–	53.8	73.5	73.8	63.0	56.6	–	59.9
September 1997	83.6	83.5	72.8	69.3	–	70.7	92.4	92.6	80.2	72.9	–	77.2
PAD District III												
September 1998	54.6	54.5	52.5	44.8	42.1	45.8	66.4	66.3	59.0	48.9	–	52.3
August 1998	56.2	56.1	53.9	42.9	40.5	45.1	68.0	68.0	60.9	47.7	–	52.3
September 1997	78.0	77.8	73.4	64.3	59.9	65.7	88.5	88.3	80.4	68.7	–	72.9
Texas												
September 1998	54.6	54.5	52.5	44.8	42.2	45.8	66.4	66.3	59.0	48.9	–	52.3
August 1998	56.2	56.1	53.9	42.9	40.5	45.1	68.0	68.0	60.9	47.7	–	52.3
September 1997	78.0	77.8	73.4	64.3	60.1	65.8	88.5	88.3	80.4	68.7	–	72.9
PAD District V												
September 1998	67.6	66.8	61.6	53.7	50.3	57.4	76.6	76.4	67.5	58.9	W	65.8
August 1998	68.9	67.9	62.3	53.9	50.7	58.3	78.2	77.9	67.9	59.1	W	66.2
September 1997	94.5	92.5	89.8	81.8	NA	83.6	103.3	102.6	95.5	88.1	W	94.1
Arizona												
September 1998	66.9	66.4	57.5	49.5	W	55.7	76.9	76.9	63.6	57.4	–	63.2
August 1998	67.9	67.2	57.9	50.2	–	56.4	77.6	77.6	63.6	58.8	–	63.3
September 1997	93.8	93.5	85.0	80.4	W	83.7	103.9	103.8	90.5	86.8	–	90.0
California												
September 1998	67.7	66.9	61.9	53.8	50.3	57.5	76.6	76.3	67.6	58.9	W	65.8
August 1998	69.0	68.0	62.6	54.1	50.7	58.4	78.3	77.9	68.1	59.1	W	66.3
September 1997	94.6	92.4	90.1	81.9	NA	83.6	103.3	102.4	95.7	88.1	W	94.2

See footnotes at end of table.

Table 34. Reformulated Motor Gasoline Prices by Grade, Sales Type, PAD District, and Selected States

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average	Through Retail Outlets	Average[a]	DTW	Rack	Bulk	Average
Pennsylvania												
September 1998	74.3	73.4	63.4	57.5	–	61.5	61.7	61.3	55.2	49.7	W	53.0
August 1998	76.0	75.0	65.8	56.9	–	62.9	63.3	62.7	57.4	48.9	W	54.1
September 1997	98.9	97.7	89.6	81.7	–	87.2	86.7	86.0	80.8	73.4	–	78.1
Subdistrict IC												
September 1998	73.3	72.7	65.6	56.8	W	61.3	61.4	61.1	58.8	49.4	W	53.7
August 1998	76.1	75.6	68.1	57.5	–	63.0	63.5	63.1	60.9	49.4	–	54.6
September 1997	99.3	98.4	89.1	77.6	W	84.0	87.4	86.7	81.5	69.5	W	75.3
Virginia												
September 1998	73.3	72.7	65.6	56.8	W	61.3	61.4	61.1	58.8	49.4	W	53.7
August 1998	76.1	75.6	68.1	57.5	–	63.0	63.5	63.1	60.9	49.4	–	54.6
September 1997	99.3	98.4	89.1	77.6	W	84.0	87.4	86.7	81.5	69.5	W	75.3
PAD District II												
September 1998	83.0	82.1	70.4	62.3	–	67.3	69.2	69.0	61.9	54.5	–	58.5
August 1998	84.8	84.0	71.8	61.2	–	67.7	71.0	70.8	62.6	53.1	W	58.2
September 1997	100.5	99.6	88.4	78.1	–	84.6	87.8	87.3	80.0	71.0	W	76.0
Illinois												
September 1998	84.8	83.7	71.9	63.1	–	69.3	71.6	71.3	63.9	55.4	–	60.9
August 1998	86.7	85.6	73.7	62.0	–	70.3	73.5	73.1	65.0	53.9	W	60.9
September 1997	101.3	100.2	89.3	78.0	–	86.3	88.9	88.4	82.0	71.1	W	78.3
Indiana												
September 1998	77.8	76.5	67.8	63.4	–	65.5	63.3	63.3	58.9	55.4	–	56.9
August 1998	79.1	78.6	68.6	62.1	–	65.2	64.9	65.0	59.1	54.1	–	56.3
September 1997	96.5	95.3	88.4	80.0	–	83.3	84.3	84.1	79.6	72.3	–	75.0
Kentucky												
September 1998	80.1	80.0	67.9	58.2	–	62.9	64.7	64.6	58.7	50.8	–	54.4
August 1998	82.4	82.4	68.6	57.6	–	62.8	66.8	66.7	59.3	49.7	–	53.9
September 1997	101.2	100.9	87.2	78.2	–	82.9	86.1	85.6	77.3	70.9	–	74.2
Wisconsin												
September 1998	77.6	77.6	66.1	63.6	–	64.7	66.7	66.8	57.9	55.2	–	56.2
August 1998	78.9	79.0	66.8	62.8	–	64.6	67.6	67.8	58.1	54.1	–	55.7
September 1997	96.0	95.4	83.1	77.1	–	79.6	85.8	85.6	74.7	70.4	–	72.2
PAD District III												
September 1998	73.6	73.2	65.1	54.2	44.1	53.6	60.0	59.9	56.3	47.1	42.7	48.2
August 1998	75.2	74.7	66.8	53.3	44.6	54.5	61.6	61.5	57.8	45.4	42.5	47.9
September 1997	95.9	95.7	87.0	74.7	67.3	77.6	82.7	82.5	77.7	66.5	61.2	68.7
Texas												
September 1998	73.6	73.2	65.1	54.2	44.6	54.3	60.0	59.9	56.3	47.1	42.9	48.3
August 1998	75.2	74.7	66.8	53.3	44.6	54.5	61.6	61.5	57.8	45.4	42.5	47.9
September 1997	95.9	95.7	87.0	74.7	W	78.2	82.7	82.5	77.7	66.5	61.2	68.8
PAD District V												
September 1998	85.5	84.7	76.1	64.8	54.7	72.1	71.9	71.1	65.5	55.6	50.8	60.9
August 1998	86.7	86.0	76.7	65.0	54.6	72.6	73.3	72.3	66.1	55.9	51.1	61.8
September 1997	112.8	111.3	104.3	94.4	82.5	100.5	98.5	96.8	93.3	83.7	NA	87.2
Arizona												
September 1998	87.0	86.8	71.5	62.7	–	70.5	71.0	70.5	60.7	51.3	W	58.8
August 1998	87.8	87.7	71.5	63.7	–	70.6	72.0	71.5	60.9	52.1	–	59.4
September 1997	113.4	113.2	98.4	91.1	–	97.0	97.3	96.9	87.8	82.3	W	86.4
California												
September 1998	85.3	84.5	76.3	64.9	54.7	72.1	72.1	71.2	65.7	55.7	50.8	61.0
August 1998	86.5	85.7	76.9	65.1	54.6	72.7	73.4	72.4	66.4	56.1	51.1	61.9
September 1997	112.7	111.1	104.6	94.5	82.5	100.6	98.6	96.7	93.6	83.8	NA	87.2

Dash (–) = No data reported.
NA = Not available.
W = Withheld to avoid disclosure of individual company data.
[a] Includes sales through retail outlets as well as all direct sales to end users that were not made through company-operated retail outlets, e.g., sales to agricultural customers, commercial sales, and industrial sales.
Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual.*
Sources: Energy Information Administration Forms EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report."

Table 35. Refiner Motor Gasoline Prices by Grade, Sales Type, PAD District, and State

(Cents per Gallon Excluding Taxes)

Geographic Area Month	Regular			Midgrade			Premium			All Grades		
	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale
	Through Retail Outlets	Other End Users[a]		Through Retail Outlets	Other End Users[a]		Through Retail Outlets	Other End Users[a]		Through Retail Outlets	Other End Users[a]	
United States												
September 1998	61.5	48.1	48.1	71.4	51.3	55.6	79.4	55.2	59.9	66.0	49.5	50.9
August 1998	62.8	48.0	47.6	72.8	51.3	55.5	80.7	56.1	60.1	67.2	49.5	50.6
September 1997	83.6	70.7	69.5	93.2	80.4	77.9	101.5	95.6	82.0	87.6	76.4	72.3
PAD District I												
September 1998	55.8	43.4	46.8	66.4	46.6	53.3	74.8	51.6	59.3	61.6	45.1	50.3
August 1998	57.4	43.5	46.2	68.1	46.4	53.1	76.4	52.3	59.4	63.2	45.3	49.9
September 1997	80.5	67.6	68.8	90.6	70.9	75.6	99.5	77.0	81.7	85.7	69.4	72.4
Subdistrict IA												
September 1998	63.1	47.0	50.5	74.2	W	57.6	82.8	W	61.9	69.3	47.4	53.5
August 1998	64.7	46.4	49.4	75.6	W	57.3	84.6	–	60.9	70.9	46.4	52.4
September 1997	92.1	73.4	74.9	101.8	W	83.2	110.2	81.7	87.0	97.2	73.7	77.9
Connecticut												
September 1998	W	W	50.4	W	W	57.3	W	W	60.7	W	W	53.6
August 1998	W	W	49.3	W	W	57.4	W	–	60.2	W	W	52.5
September 1997	W	W	73.9	W	W	81.7	W	W	84.8	W	W	76.9
Maine												
September 1998	–	–	48.3	–	–	52.4	–	–	57.5	–	–	50.0
August 1998	–	–	45.2	–	–	50.7	–	–	54.4	–	–	46.7
September 1997	–	–	70.1	–	–	75.1	–	–	80.9	–	–	71.7
Massachusetts												
September 1998	63.8	47.9	51.4	74.7	W	59.6	83.3	–	64.2	69.9	48.2	54.8
August 1998	65.6	49.3	51.5	76.2	–	59.5	85.0	–	63.3	71.6	49.3	54.8
September 1997	93.3	73.1	77.0	102.5	W	86.6	111.2	W	89.6	98.3	73.6	80.3
New Hampshire												
September 1998	63.5	W	52.5	74.5	–	60.1	83.0	–	65.2	69.0	W	55.2
August 1998	64.4	–	53.6	75.3	–	59.9	83.8	–	65.8	69.9	–	56.4
September 1997	90.7	W	81.2	101.5	–	86.9	108.0	–	94.2	95.3	W	84.0
Rhode Island												
September 1998	59.5	W	49.0	68.8	–	54.8	W	–	60.1	64.9	W	51.8
August 1998	61.5	W	48.7	70.6	–	55.2	W	–	60.1	66.9	W	51.7
September 1997	88.3	W	75.7	95.4	–	81.8	103.0	–	87.5	92.3	W	78.5
Vermont												
September 1998	–	–	49.9	–	–	55.6	–	–	60.8	–	–	52.3
August 1998	–	–	49.3	–	–	55.4	–	–	60.0	–	–	51.7
September 1997	–	–	73.2	–	–	79.9	–	–	84.7	–	–	75.5
Subdistrict IB												
September 1998	58.3	45.9	48.0	69.1	48.5	56.8	78.6	54.7	61.9	64.3	47.4	52.1
August 1998	59.9	45.6	47.9	70.7	48.8	57.1	80.1	54.9	62.7	65.8	47.2	52.2
September 1997	84.6	72.2	71.9	94.4	76.7	80.4	103.7	82.7	85.0	89.8	74.2	75.9
Delaware												
September 1998	61.8	48.9	47.2	77.6	W	52.3	87.8	W	58.7	69.7	49.5	49.9
August 1998	61.6	49.1	47.1	75.8	W	52.5	W	W	58.7	68.8	49.8	49.9
September 1997	85.0	W	72.2	96.1	W	77.5	108.1	W	84.0	91.0	W	75.0
District of Columbia												
September 1998	–	43.7	60.2	–	W	NA	–	W	NA	–	45.8	65.1
August 1998	–	43.9	62.1	–	W	NA	–	W	NA	–	46.3	NA
September 1997	–	66.3	80.4	–	W	83.3	–	W	89.3	–	68.2	84.8
Maryland												
September 1998	–	W	51.6	–	W	57.9	–	52.0	62.1	–	W	55.3
August 1998	W	44.4	52.0	W	W	58.8	W	W	63.4	W	46.2	55.9
September 1997	W	68.2	72.0	W	W	78.0	W	76.0	83.1	W	69.7	75.5
New Jersey												
September 1998	62.9	44.4	47.4	74.7	W	59.3	83.3	W	62.0	70.2	46.6	51.4
August 1998	64.1	44.9	47.4	75.7	W	59.3	84.4	W	63.0	71.3	46.7	51.7
September 1997	89.1	72.4	72.0	99.8	79.0	85.2	108.2	85.9	83.9	95.4	76.3	76.3
New York												
September 1998	57.0	W	49.7	68.5	52.2	59.4	77.4	60.6	64.9	62.6	49.9	54.9
August 1998	58.1	W	49.2	69.7	51.9	59.7	78.7	60.3	65.7	63.8	49.1	54.7
September 1997	83.4	75.3	74.2	93.5	79.1	84.3	102.3	84.4	90.1	88.2	76.6	79.2
Pennsylvania												
September 1998	56.8	45.6	45.8	66.4	W	51.1	75.0	W	56.5	61.8	46.4	48.3
August 1998	59.0	44.6	45.5	68.6	W	51.0	77.1	W	56.9	64.0	45.4	48.2
September 1997	83.3	72.9	69.4	92.2	81.1	75.0	100.5	84.3	80.1	87.6	74.2	72.0

See footnotes at end of table.

Table 35. Refiner Motor Gasoline Prices by Grade, Sales Type, PAD District, and State

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Regular			Midgrade			Premium			All Grades		
	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale
	Through Retail Outlets	Other End Users[a]		Through Retail Outlets	Other End Users[a]		Through Retail Outlets	Other End Users[a]		Through Retail Outlets	Other End Users[a]	
Subdistrict IC												
September 1998	53.8	42.5	44.6	64.6	46.2	50.2	72.0	50.9	56.2	59.5	44.4	48.0
August 1998	55.4	42.8	43.6	66.2	45.8	49.7	73.6	51.7	56.0	61.1	44.7	47.2
September 1997	77.2	65.8	64.4	87.8	69.1	71.0	96.1	75.1	77.2	82.5	67.6	67.9
Florida												
September 1998	54.3	42.3	44.9	65.9	46.1	51.2	72.3	50.5	57.7	60.7	44.1	49.1
August 1998	56.2	42.6	44.2	67.7	44.8	51.2	74.1	50.7	57.9	62.5	44.1	48.7
September 1997	78.1	65.8	66.0	89.3	69.2	73.6	97.1	76.5	80.7	84.0	67.8	70.6
Georgia												
September 1998	51.8	42.0	44.0	62.2	45.3	49.4	70.7	50.3	54.9	57.6	44.3	47.0
August 1998	52.7	42.5	42.8	63.1	46.2	48.6	71.7	51.8	54.4	58.5	45.1	45.9
September 1997	74.1	64.9	62.5	84.0	67.8	69.1	93.4	74.0	74.3	79.1	66.9	65.5
North Carolina												
September 1998	52.3	42.0	43.8	61.7	46.3	48.3	69.0	50.7	54.3	57.2	43.4	46.6
August 1998	54.0	42.3	42.1	63.6	W	47.0	70.5	51.1	53.2	58.9	43.7	45.1
September 1997	75.4	65.6	62.9	85.5	69.2	67.6	93.3	73.9	73.6	80.1	66.9	65.7
South Carolina												
September 1998	50.3	42.2	43.9	60.6	W	48.7	69.4	51.2	54.5	55.2	44.5	46.6
August 1998	51.3	42.5	42.2	61.7	W	47.3	70.2	W	53.3	56.2	44.9	45.0
September 1997	73.3	65.5	62.7	83.3	W	68.0	92.1	75.0	73.8	77.6	67.6	65.3
Virginia												
September 1998	58.5	44.3	46.1	69.5	W	51.7	75.5	W	57.7	64.0	46.2	49.5
August 1998	60.5	44.4	45.7	71.9	W	52.1	77.9	W	58.1	66.1	46.4	49.4
September 1997	82.1	67.0	66.7	92.9	W	73.0	99.4	74.9	78.9	87.1	68.6	70.1
West Virginia												
September 1998	55.2	49.1	47.1	64.8	W	53.1	74.0	W	58.2	58.9	50.7	49.7
August 1998	57.8	48.4	46.5	67.4	W	52.7	76.3	W	57.8	61.6	49.8	49.2
September 1997	81.0	69.0	64.5	90.3	W	71.1	99.3	W	76.1	84.5	71.1	66.9
PAD District II												
September 1998	61.7	51.4	47.4	71.0	W	53.9	79.0	59.9	58.1	65.2	52.8	49.4
August 1998	62.9	51.9	46.8	72.3	W	53.9	80.1	60.7	57.9	66.4	53.3	48.9
September 1997	80.7	71.4	66.3	89.4	75.4	73.1	96.6	80.9	76.9	83.8	72.6	68.0
Illinois												
September 1998	66.0	NA	49.2	76.1	NA	59.8	84.0	NA	64.9	70.4	NA	52.7
August 1998	68.5	NA	48.7	78.5	W	60.4	85.9	W	64.9	72.8	NA	52.3
September 1997	83.8	66.2	68.5	94.0	W	79.8	99.8	W	83.0	87.8	68.9	71.7
Indiana												
September 1998	60.3	46.9	46.7	69.5	W	52.2	77.5	W	57.8	63.9	47.2	49.0
August 1998	60.0	49.0	45.6	69.2	47.5	51.4	76.9	W	57.4	63.4	49.1	48.0
September 1997	80.4	71.0	65.3	87.3	W	71.4	91.8	W	76.1	82.9	70.9	67.3
Iowa												
September 1998	57.7	W	47.6	W	–	NA	67.5	NA	57.1	58.8	W	48.8
August 1998	59.7	W	47.0	W	–	52.6	69.4	NA	56.4	60.8	W	48.1
September 1997	81.6	70.8	67.5	89.3	W	72.6	91.3	W	75.5	82.6	71.3	68.4
Kansas												
September 1998	57.7	49.4	45.9	66.6	W	NA	73.7	W	52.9	60.2	49.6	46.8
August 1998	60.0	51.1	45.1	69.1	–	52.9	75.7	W	52.4	62.5	51.3	46.1
September 1997	80.6	73.7	66.3	89.7	–	75.2	96.5	W	75.0	82.7	73.7	67.0
Kentucky												
September 1998	62.9	48.5	46.2	72.9	W	50.9	82.2	51.6	56.4	67.1	49.2	48.5
August 1998	63.8	48.5	45.0	74.3	W	50.1	83.4	53.3	55.5	68.1	49.4	47.4
September 1997	82.1	67.4	65.0	91.3	W	70.2	100.0	74.5	75.0	85.9	68.9	67.1
Michigan												
September 1998	58.8	53.8	48.2	67.1	W	53.5	75.4	NA	59.6	61.4	NA	50.3
August 1998	59.9	54.4	47.6	68.8	54.0	54.5	76.7	NA	59.7	62.6	NA	49.9
September 1997	77.9	74.4	66.3	86.0	72.7	73.3	92.6	W	77.9	80.1	75.5	68.3
Minnesota												
September 1998	71.6	56.3	52.6	78.0	–	56.1	84.5	W	60.1	73.7	56.3	53.8
August 1998	72.2	57.0	51.8	78.5	–	56.1	84.6	W	59.6	74.2	57.0	53.2
September 1997	94.0	73.9	69.7	100.9	W	75.4	107.5	W	77.1	95.9	74.1	70.6
Missouri												
September 1998	57.8	NA	46.3	67.1	W	53.0	77.5	W	55.8	61.4	NA	47.9
August 1998	59.2	NA	45.8	68.2	NA	53.2	78.4	NA	55.5	62.7	NA	47.4
September 1997	81.8	71.3	67.2	92.3	W	77.6	102.0	78.7	76.9	85.1	72.1	68.7

See footnotes at end of table.

Table 35. Refiner Motor Gasoline Prices by Grade, Sales Type, PAD District, and State

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Regular			Midgrade			Premium			All Grades		
	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale
	Through Retail Outlets	Other End Users[a]		Through Retail Outlets	Other End Users[a]		Through Retail Outlets	Other End Users[a]		Through Retail Outlets	Other End Users[a]	
Nebraska												
September 1998	55.6	W	47.3	W	–	NA	W	–	55.7	57.1	W	48.2
August 1998	57.1	46.7	46.8	W	–	53.1	W	–	55.4	58.6	46.7	47.8
September 1997	76.3	W	68.0	83.9	–	71.6	86.5	–	77.0	77.2	W	68.7
North Dakota												
September 1998	W	NA	NA	W	–	NA	W	–	NA	W	NA	NA
August 1998	W	W	49.0	W	–	NA	W	–	59.6	W	W	50.0
September 1997	W	W	70.2	–	–	W	W	–	79.7	W	W	71.0
Ohio												
September 1998	62.7	W	48.4	72.1	W	54.5	81.4	61.7	60.8	66.4	W	50.8
August 1998	63.8	W	47.6	73.2	W	54.5	82.4	63.0	60.3	67.5	W	50.1
September 1997	78.9	71.6	65.2	87.4	W	71.6	95.7	82.8	76.7	82.1	73.0	67.4
Oklahoma												
September 1998	55.4	47.1	44.1	62.8	–	48.0	70.7	W	51.8	58.6	47.8	45.0
August 1998	57.7	48.4	44.6	65.0	W	47.8	72.9	W	52.6	60.7	49.1	45.6
September 1997	75.9	73.5	63.7	83.8	W	69.0	91.9	74.5	72.6	78.7	73.6	64.4
South Dakota												
September 1998	59.7	W	49.0	W	–	NA	73.3	–	58.0	63.7	W	50.0
August 1998	62.2	48.4	49.6	W	–	56.0	75.8	–	60.4	66.0	48.4	50.8
September 1997	89.0	69.3	69.7	W	–	76.3	96.5	–	79.2	89.3	69.3	70.5
Tennessee												
September 1998	55.9	46.4	43.8	65.3	W	48.8	74.9	51.0	54.4	61.6	47.0	46.7
August 1998	56.1	44.7	42.5	66.7	W	47.9	75.2	50.4	53.5	61.8	45.5	45.5
September 1997	77.2	64.5	63.1	88.3	67.5	68.7	96.7	72.5	73.9	83.0	66.0	66.0
Wisconsin												
September 1998	62.8	48.4	47.9	72.1	W	54.6	77.3	W	58.4	65.2	49.2	49.4
August 1998	64.1	45.5	46.9	72.6	–	54.3	78.6	W	57.9	66.4	46.2	48.6
September 1997	82.5	64.7	66.2	91.0	W	72.8	96.1	W	75.5	84.6	64.9	67.5
PAD District III												
September 1998	56.1	NA	42.3	67.6	44.6	48.6	75.0	45.6	51.8	61.3	43.5	44.3
August 1998	58.0	43.1	41.6	69.6	44.3	48.0	76.9	47.0	52.0	63.2	43.8	43.6
September 1997	78.4	62.7	62.7	89.1	66.5	69.6	97.0	74.0	73.5	83.0	63.7	64.7
Alabama												
September 1998	57.1	41.8	43.7	67.1	44.4	48.9	75.9	52.4	54.6	62.2	44.5	46.7
August 1998	58.6	42.1	42.8	69.1	45.5	47.8	77.6	52.0	54.2	63.8	44.4	45.9
September 1997	77.4	64.2	63.1	87.2	68.4	68.3	96.1	73.5	74.1	82.3	66.8	65.9
Arkansas												
September 1998	56.6	W	44.4	66.4	–	48.4	75.9	W	52.8	60.7	W	46.5
August 1998	57.7	W	43.0	67.8	–	46.9	76.9	–	52.5	61.8	W	45.2
September 1997	77.1	W	63.8	85.6	W	68.1	95.7	–	72.6	80.6	W	65.6
Louisiana												
September 1998	56.0	41.9	41.9	67.6	W	48.2	76.9	49.4	49.7	62.0	43.2	44.6
August 1998	57.4	41.2	40.8	70.0	W	47.8	78.0	48.6	51.8	63.5	42.5	43.8
September 1997	76.8	69.6	62.4	87.5	W	69.2	96.1	78.4	72.4	82.0	70.5	65.3
Mississippi												
September 1998	54.7	42.0	41.5	65.1	45.3	47.3	73.3	49.6	52.4	59.3	43.5	43.8
August 1998	57.2	41.8	40.6	67.4	45.8	45.9	76.4	50.1	51.2	61.7	43.7	42.9
September 1997	76.4	62.8	61.7	86.1	W	66.7	95.3	W	72.6	80.4	64.6	63.8
New Mexico												
September 1998	65.0	W	46.6	74.8	–	51.4	82.1	W	56.4	68.2	W	48.4
August 1998	67.9	W	49.2	77.4	–	54.6	86.6	W	58.8	71.2	W	50.9
September 1997	87.5	75.2	72.5	95.5	W	76.9	105.1	W	81.7	90.4	76.3	74.0
Texas												
September 1998	55.2	W	41.8	67.2	44.5	48.8	74.4	W	51.5	60.7	W	43.6
August 1998	57.1	W	41.2	69.2	W	48.3	76.3	W	51.2	62.6	W	42.9
September 1997	77.9	62.1	62.2	89.2	W	70.3	96.9	74.6	73.4	82.8	62.7	63.8
PAD District IV												
September 1998	64.5	NA	55.4	76.1	NA	60.0	86.2	NA	65.5	70.2	NA	57.6
August 1998	65.3	NA	56.5	76.7	NA	60.5	86.6	NA	66.7	70.8	NA	58.7
September 1997	84.9	77.6	76.4	97.9	W	81.4	107.4	88.0	86.8	90.7	79.1	78.6
Colorado												
September 1998	63.6	49.8	48.9	76.5	W	53.8	86.6	–	58.3	70.0	49.8	51.1
August 1998	64.0	50.9	51.0	76.9	W	55.8	86.8	W	60.4	70.2	53.0	53.1
September 1997	84.3	72.3	72.4	98.4	–	77.5	108.0	W	81.9	90.4	72.8	74.4

See footnotes at end of table.

Table 35. Refiner Motor Gasoline Prices by Grade, Sales Type, PAD District, and State

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Regular			Midgrade			Premium			All Grades		
	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale
	Through Retail Outlets	Other End Users[a]		Through Retail Outlets	Other End Users[a]		Through Retail Outlets	Other End Users[a]		Through Retail Outlets	Other End Users[a]	
Idaho												
September 1998	68.7	W	61.6	77.3	NA	67.1	85.9	W	72.2	70.9	W	63.5
August 1998	69.3	W	60.8	77.7	NA	66.1	86.4	W	71.2	71.5	W	62.7
September 1997	87.2	W	81.5	94.7	W	86.1	102.3	W	91.6	89.1	W	83.2
Montana												
September 1998	W	W	59.0	W	–	64.0	W	W	70.6	W	W	61.4
August 1998	W	61.9	61.2	W	–	W	W	W	72.9	W	63.6	63.6
September 1997	W	W	77.3	W	–	82.2	W	W	89.1	W	W	80.1
Utah												
September 1998	65.7	NA	57.7	74.4	NA	64.2	84.7	W	67.8	70.2	NA	60.5
August 1998	67.3	NA	56.9	75.7	NA	63.0	85.8	W	67.2	71.6	NA	59.7
September 1997	86.3	W	77.9	96.7	W	83.7	106.3	W	88.2	92.1	78.7	80.5
Wyoming												
September 1998	69.7	W	54.3	77.8	–	64.0	W	W	64.6	72.9	W	56.4
August 1998	72.9	62.2	57.0	81.1	–	62.5	W	W	W	76.3	68.2	59.1
September 1997	89.4	W	76.0	W	–	82.0	105.6	W	85.8	92.6	82.6	77.8
PAD District V												
September 1998	69.6	53.1	57.5	79.6	59.3	66.2	90.1	66.1	72.3	74.0	55.1	61.0
August 1998	71.1	52.8	58.0	80.8	59.1	66.5	91.2	65.9	72.2	75.4	55.1	61.5
September 1997	94.7	86.4	85.4	104.2	NA	93.9	115.1	W	99.9	98.6	NA	88.6
Alaska												
September 1998	95.2	NA	66.2	103.2	–	81.5	112.2	W	79.8	97.7	NA	68.0
August 1998	96.5	93.3	68.4	107.6	–	82.6	112.3	W	82.4	99.0	94.0	70.0
September 1997	120.6	W	84.7	W	–	W	134.5	W	100.2	122.5	W	86.2
Arizona												
September 1998	66.3	53.6	52.6	76.5	–	60.5	86.5	W	66.5	70.4	54.7	55.3
August 1998	67.3	53.9	52.8	77.2	W	60.6	87.4	W	67.2	71.4	55.3	55.6
September 1997	93.9	83.6	82.6	103.9	W	89.7	113.3	W	94.9	97.3	85.3	85.1
California												
September 1998	69.6	W	58.4	79.7	W	66.5	89.2	W	72.4	74.2	W	62.0
August 1998	71.3	W	59.0	81.2	W	67.0	90.5	W	72.4	75.8	W	62.6
September 1997	NA	NA	86.5	103.9	NA	94.7	114.5	W	100.9	NA	NA	89.8
Hawaii												
September 1998	108.1	W	90.9	112.8	W	97.2	122.1	W	103.0	112.4	W	95.1
August 1998	108.7	W	91.3	113.4	W	97.8	123.4	W	103.4	113.2	W	95.5
September 1997	114.5	W	90.3	121.5	W	107.3	129.1	W	112.9	119.2	W	98.0
Nevada												
September 1998	68.2	58.9	55.6	79.1	W	62.4	89.2	–	68.9	73.1	62.5	58.6
August 1998	67.0	56.1	53.5	78.1	W	59.9	88.3	–	67.5	72.0	60.3	56.7
September 1997	88.6	89.0	83.2	99.6	–	87.7	109.5	–	95.2	93.3	89.0	85.5
Oregon												
September 1998	71.6	NA	53.4	82.6	W	62.5	93.0	W	69.2	75.2	NA	55.7
August 1998	72.7	55.2	53.9	83.5	W	62.7	93.9	W	68.8	76.4	55.9	56.2
September 1997	100.3	79.8	85.3	111.5	–	94.4	122.0	W	97.9	103.4	80.1	87.2
Washington												
September 1998	65.5	52.2	55.7	77.4	–	64.8	88.2	–	70.5	69.9	52.2	58.7
August 1998	66.3	52.8	56.5	77.8	–	65.3	88.8	–	70.4	70.7	52.8	59.4
September 1997	90.5	83.2	81.8	102.1	W	90.4	112.0	W	95.8	94.2	83.9	84.5

Dash (–) = No data reported.
NA = Not available.
W = Withheld to avoid disclosure of individual company data.
[a] Sales to "other end users" are all end-user sales that were not made through company-operated retail outlets, e.g., sales to agricultural customers or utilities.
Notes: Motor gasoline averages and totals prior to October 1993 include leaded gasoline.
Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual.*
Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

Table 36. Refiner Prices of Aviation Fuels and Kerosene by PAD District and State

(Cents per Gallon Excluding Taxes)

Geographic Area Month	Aviation Gasoline		Kerosene-Type Jet Fuel		Kerosene	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
United States						
September 1998	94.1	89.8	44.9	44.6	47.2	45.7
August 1998	95.9	91.7	43.6	42.9	41.5	40.7
September 1997	115.6	108.9	58.2	58.8	63.4	60.1
PAD District I						
September 1998	96.0	87.7	43.9	44.8	50.6	47.6
August 1998	97.5	88.8	41.6	43.2	43.9	42.1
September 1997	116.1	107.4	57.6	59.1	72.7	60.5
Subdistrict IA						
September 1998	W	86.7	47.8	49.6	63.2	51.3
August 1998	W	NA	44.2	46.7	NA	46.2
September 1997	W	109.6	60.5	64.6	W	63.6
Connecticut						
September 1998	W	90.8	48.2	47.4	W	W
August 1998	W	NA	NA	NA	–	W
September 1997	W	111.4	61.0	W	W	W
Maine						
September 1998	W	W	W	W	–	W
August 1998	W	–	W	W	–	W
September 1997	W	–	W	66.7	–	63.3
Massachusetts						
September 1998	W	W	47.1	49.7	–	W
August 1998	W	W	43.4	46.1	–	W
September 1997	W	W	59.3	63.7	–	W
New Hampshire						
September 1998	W	W	48.2	W	W	W
August 1998	W	W	45.8	W	NA	W
September 1997	W	W	63.1	W	W	W
Rhode Island						
September 1998	W	W	W	W	–	W
August 1998	W	NA	W	W	–	W
September 1997	W	W	62.4	64.5	–	W
Vermont						
September 1998	–	W	W	W	NA	–
August 1998	–	W	W	W	NA	–
September 1997	W	–	W	W	–	W
Subdistrict IB						
September 1998	W	87.4	43.5	44.1	50.0	47.2
August 1998	98.2	86.4	41.4	42.9	43.4	41.7
September 1997	117.4	107.5	57.3	58.8	72.6	60.4
Delaware						
September 1998	W	87.2	W	W	–	W
August 1998	W	84.8	W	NA	–	W
September 1997	W	108.9	64.1	69.4	–	W
District of Columbia						
September 1998	–	–	–	W	–	–
August 1998	–	–	–	NA	–	–
September 1997	–	–	–	W	–	–
Maryland						
September 1998	W	W	44.2	44.3	–	47.5
August 1998	W	W	41.8	W	W	NA
September 1997	W	W	58.2	59.0	W	58.9
New Jersey						
September 1998	W	87.0	43.0	43.7	W	46.4
August 1998	W	NA	41.3	42.6	W	40.8
September 1997	W	108.7	57.3	58.3	W	58.5
New York						
September 1998	W	87.4	44.5	44.8	W	51.0
August 1998	W	85.7	NA	44.1	W	45.0
September 1997	W	NA	58.6	59.9	W	62.6
Pennsylvania						
September 1998	93.4	88.0	43.5	44.1	69.8	47.8
August 1998	94.1	90.4	40.4	42.3	66.9	44.1
September 1997	116.0	108.0	56.5	58.3	80.9	61.8

See footnotes at end of table.

Table 36. Refiner Prices of Aviation Fuels and Kerosene by PAD District and State

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Aviation Gasoline		Kerosene-Type Jet Fuel		Kerosene	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
Subdistrict IC						
September 1998	93.8	88.1	43.8	45.2	61.4	48.1
August 1998	95.5	90.0	41.3	43.1	W	43.2
September 1997	114.1	107.0	57.3	59.0	75.7	60.3
Florida						
September 1998	90.8	85.8	44.4	47.0	W	47.2
August 1998	92.3	89.1	41.6	44.0	W	43.7
September 1997	109.5	103.5	57.7	59.7	W	59.6
Georgia						
September 1998	91.7	88.3	42.9	43.5	104.4	48.3
August 1998	W	87.8	39.8	41.4	W	42.0
September 1997	112.3	106.8	55.8	57.5	114.6	60.2
North Carolina						
September 1998	W	90.8	42.8	45.0	W	47.4
August 1998	W	93.3	41.6	44.0	W	41.1
September 1997	W	112.5	57.3	60.0	74.3	60.1
South Carolina						
September 1998	W	91.4	48.2	49.6	64.3	49.1
August 1998	W	92.7	45.9	46.9	58.2	43.0
September 1997	118.3	111.0	62.0	62.4	79.4	60.8
Virginia						
September 1998	W	88.8	43.7	46.0	W	48.9
August 1998	W	91.9	41.6	43.4	W	43.9
September 1997	W	W	57.4	59.9	W	60.2
West Virginia						
September 1998	W	86.8	W	W	W	W
August 1998	W	W	W	W	W	W
September 1997	W	W	W	62.0	80.0	NA
PAD District II						
September 1998	90.2	85.6	44.9	46.5	W	50.6
August 1998	91.5	87.2	42.5	43.4	47.0	46.9
September 1997	108.8	101.7	58.0	59.6	W	61.2
Illinois						
September 1998	W	91.1	42.8	47.5	W	W
August 1998	W	W	41.0	44.9	W	45.6
September 1997	W	W	56.2	59.8	74.6	56.0
Indiana						
September 1998	W	90.3	45.1	NA	W	53.2
August 1998	W	88.0	42.5	NA	W	44.6
September 1997	W	103.7	57.4	59.5	W	61.1
Iowa						
September 1998	W	86.1	NA	49.2	–	NA
August 1998	W	88.3	NA	46.2	–	–
September 1997	W	103.0	61.3	61.4	–	70.1
Kansas						
September 1998	W	W	49.9	50.6	–	NA
August 1998	W	W	47.6	48.7	–	56.3
September 1997	W	W	62.2	62.2	–	74.6
Kentucky						
September 1998	W	W	44.3	46.4	86.0	56.3
August 1998	W	W	42.2	44.8	81.8	50.3
September 1997	115.8	W	59.4	60.9	81.0	63.9
Michigan						
September 1998	W	89.7	46.5	46.5	61.3	50.9
August 1998	92.4	W	44.1	44.4	NA	W
September 1997	109.2	90.0	58.6	59.8	NA	61.3
Minnesota						
September 1998	W	W	47.3	47.7	W	54.8
August 1998	W	W	43.5	45.7	W	48.0
September 1997	W	NA	60.0	60.6	W	68.1
Missouri						
September 1998	W	84.7	45.5	50.2	–	W
August 1998	W	W	42.7	47.9	–	49.2
September 1997	W	W	57.9	60.0	–	W

See footnotes at end of table.

Table 36. Refiner Prices of Aviation Fuels and Kerosene by PAD District and State

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Aviation Gasoline		Kerosene-Type Jet Fuel		Kerosene	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
Nebraska						
September 1998	W	W	46.6	50.6	–	–
August 1998	W	W	43.2	48.1	–	–
September 1997	W	W	57.9	63.9	–	W
North Dakota						
September 1998	W	W	54.3	59.2	–	–
August 1998	W	W	NA	NA	–	–
September 1997	W	W	65.2	69.4	–	W
Ohio						
September 1998	92.6	77.3	45.4	47.3	W	54.0
August 1998	95.1	81.1	43.6	43.1	W	46.7
September 1997	W	100.2	58.7	57.8	73.6	61.7
Oklahoma						
September 1998	81.8	85.5	44.9	42.3	–	W
August 1998	W	88.3	42.0	39.7	–	W
September 1997	104.0	103.7	57.8	58.2	–	W
South Dakota						
September 1998	W	91.0	52.4	55.6	–	NA
August 1998	W	92.1	50.1	53.7	–	W
September 1997	W	107.1	62.1	W	–	W
Tennessee						
September 1998	W	87.2	44.6	47.3	W	52.2
August 1998	W	90.1	41.0	44.9	W	46.3
September 1997	W	106.0	57.3	60.7	W	62.0
Wisconsin						
September 1998	W	W	45.9	48.9	W	56.5
August 1998	–	W	43.6	45.5	–	52.6
September 1997	–	104.3	58.5	60.2	W	63.6
PAD District III						
September 1998	84.7	76.2	42.3	41.5	W	42.2
August 1998	88.1	81.3	40.1	39.1	W	38.1
September 1997	107.5	99.5	55.1	55.5	70.7	55.3
Alabama						
September 1998	W	90.3	44.8	48.2	W	51.5
August 1998	90.1	92.3	43.5	45.5	W	45.7
September 1997	W	106.8	58.8	61.3	W	61.5
Arkansas						
September 1998	W	79.4	46.4	50.2	–	W
August 1998	W	W	43.9	46.6	–	W
September 1997	W	W	60.8	61.3	–	W
Louisiana						
September 1998	88.5	81.6	41.8	41.3	W	41.9
August 1998	W	84.8	40.1	40.1	W	W
September 1997	108.1	103.0	54.6	55.1	W	55.2
Mississippi						
September 1998	W	W	41.0	39.6	W	W
August 1998	W	86.3	40.0	38.3	W	W
September 1997	W	W	54.4	54.6	W	62.0
New Mexico						
September 1998	W	W	47.7	48.6	–	W
August 1998	W	W	45.0	45.5	–	W
September 1997	W	W	60.9	NA	–	W
Texas						
September 1998	NA	72.1	42.4	41.5	W	42.1
August 1998	85.5	77.6	39.9	38.7	W	NA
September 1997	105.5	96.5	55.1	55.5	W	54.7
PAD District IV						
September 1998	100.1	92.2	54.5	51.4	–	78.8
August 1998	99.9	92.3	53.1	50.4	–	W
September 1997	114.7	108.4	67.4	67.4	–	NA
Colorado						
September 1998	W	W	47.7	47.3	–	NA
August 1998	W	W	44.9	46.6	–	–
September 1997	W	W	58.9	NA	–	NA

See footnotes at end of table.

Table 36. Refiner Prices of Aviation Fuels and Kerosene by PAD District and State

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Aviation Gasoline		Kerosene-Type Jet Fuel		Kerosene	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
Idaho						
September 1998	–	W	59.1	60.5	–	W
August 1998	W	W	59.9	60.6	–	–
September 1997	W	W	78.2	75.5	–	W
Montana						
September 1998	W	W	62.1	66.7	–	–
August 1998	W	–	63.0	67.3	–	–
September 1997	W	–	76.0	78.4	–	W
Utah						
September 1998	W	95.4	58.4	62.1	–	W
August 1998	W	95.1	58.1	62.5	–	W
September 1997	W	106.1	73.4	78.5	–	W
Wyoming						
September 1998	W	W	57.3	55.4	–	W
August 1998	W	W	57.9	W	–	–
September 1997	W	W	75.8	W	–	–
PAD District V						
September 1998	98.9	99.6	46.5	47.4	W	55.1
August 1998	100.8	103.1	47.5	48.1	W	50.5
September 1997	126.9	122.2	60.3	63.0	NA	NA
Alaska						
September 1998	W	97.8	49.2	53.8	W	–
August 1998	W	108.4	49.9	55.8	W	–
September 1997	W	129.0	63.1	71.9	–	W
Arizona						
September 1998	W	98.3	47.7	50.8	–	W
August 1998	W	97.7	47.3	50.6	–	W
September 1997	W	112.9	60.8	NA	–	W
California						
September 1998	104.5	97.9	45.7	45.2	–	53.8
August 1998	105.5	97.8	46.8	46.2	–	47.9
September 1997	125.1	117.9	59.6	59.4	–	NA
Hawaii						
September 1998	–	W	W	W	–	–
August 1998	–	W	50.8	W	–	–
September 1997	–	W	62.8	W	–	–
Nevada						
September 1998	W	98.0	48.8	53.0	–	–
August 1998	W	98.3	49.8	53.5	–	W
September 1997	W	113.3	60.8	63.8	–	W
Oregon						
September 1998	W	W	46.8	50.2	–	W
August 1998	W	W	48.2	51.8	–	W
September 1997	W	W	59.9	63.5	NA	NA
Washington						
September 1998	W	W	45.9	48.6	–	W
August 1998	W	W	46.7	48.9	–	58.7
September 1997	W	W	59.4	66.4	–	81.5

Dash (–) = No data reported.
NA = Not available.
W = Withheld to avoid disclosure of individual company data.
Notes: PAD District and U.S. averages represent data for all States. In certain PAD Districts, however, prices are not shown for every State.
Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual.*
Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

Table 37. Refiner Prices of Distillate Fuels by PAD District and State

(Cents per Gallon Excluding Taxes)

Geographic Area Month	No. 1 Distillate		No. 2 Distillate[a]		No. 4 Fuel[b]	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
United States						
September 1998	NA	53.6	49.1	44.9	39.9	36.1
August 1998	NA	51.3	45.8	40.5	36.2	36.0
September 1997	61.1	67.2	60.4	57.0	51.1	54.1
PAD District I						
September 1998	54.1	49.3	48.1	43.3	W	38.8
August 1998	48.8	45.3	43.3	38.1	W	35.0
September 1997	62.3	61.9	59.0	54.9	W	52.0
Subdistrict IA						
September 1998	W	W	50.4	44.5	W	W
August 1998	–	W	46.2	39.0	W	W
September 1997	W	W	59.2	56.0	W	W
Connecticut						
September 1998	–	W	47.2	43.3	W	W
August 1998	–	W	42.5	38.1	W	W
September 1997	W	W	58.6	56.1	W	W
Maine						
September 1998	–	W	45.3	46.5	–	–
August 1998	–	W	39.7	39.4	–	–
September 1997	–	W	56.8	56.9	–	–
Massachusetts						
September 1998	–	–	51.5	44.4	W	–
August 1998	–	–	47.9	40.6	W	–
September 1997	–	–	59.6	56.2	W	–
New Hampshire						
September 1998	W	–	60.2	44.2	–	–
August 1998	–	–	54.6	39.5	W	–
September 1997	–	–	62.6	58.0	–	–
Rhode Island						
September 1998	–	W	47.5	44.7	–	–
August 1998	–	–	43.4	37.4	–	–
September 1997	–	W	58.6	54.9	–	–
Vermont						
September 1998	–	W	67.5	W	W	–
August 1998	–	–	63.4	42.3	W	–
September 1997	–	W	60.0	57.9	W	–
Subdistrict IB						
September 1998	54.1	48.8	48.6	42.3	W	38.9
August 1998	49.6	44.2	43.9	37.7	W	34.8
September 1997	70.5	60.3	60.0	54.4	W	52.1
Delaware						
September 1998	–	–	46.2	44.2	W	–
August 1998	–	–	41.8	38.6	W	–
September 1997	–	–	58.9	W	W	–
District of Columbia						
September 1998	–	–	NA	NA	W	–
August 1998	–	–	W	41.0	W	–
September 1997	–	–	W	55.0	–	–
Maryland						
September 1998	W	–	45.7	45.1	W	W
August 1998	W	–	40.8	39.4	W	W
September 1997	W	W	56.3	55.8	W	W
New Jersey						
September 1998	W	–	46.9	40.6	W	W
August 1998	NA	–	42.4	36.9	W	34.6
September 1997	–	W	58.8	53.7	W	W
New York						
September 1998	W	48.4	50.7	43.5	W	38.5
August 1998	W	43.1	46.7	38.8	W	W
September 1997	W	W	64.0	55.3	W	52.6
Pennsylvania						
September 1998	W	49.2	50.0	43.3	W	–
August 1998	W	44.7	44.7	37.9	W	–
September 1997	W	61.9	61.4	54.7	W	–

See footnotes at end of table.

Table 37. Refiner Prices of Distillate Fuels by PAD District and State

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	No. 1 Distillate		No. 2 Distillate[a]		No. 4 Fuel[b]	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
Subdistrict IC						
September 1998	–	49.4	47.7	44.4	W	–
August 1998	W	45.5	42.8	38.4	W	NA
September 1997	W	W	58.4	55.2	54.7	W
Florida						
September 1998	–	–	48.5	44.8	W	–
August 1998	–	–	43.3	38.6	W	–
September 1997	W	–	59.2	55.6	W	–
Georgia						
September 1998	–	W	49.1	44.1	–	–
August 1998	–	W	45.2	37.7	W	–
September 1997	–	–	58.8	54.7	W	–
North Carolina						
September 1998	–	W	45.3	44.2	W	–
August 1998	W	W	40.4	38.2	W	–
September 1997	–	W	56.6	55.2	W	–
South Carolina						
September 1998	–	W	47.8	44.2	–	–
August 1998	–	W	42.7	38.3	–	–
September 1997	–	–	59.8	55.1	W	–
Virginia						
September 1998	–	50.2	45.4	44.3	W	–
August 1998	–	46.8	40.6	38.5	W	NA
September 1997	–	W	56.2	55.3	W	W
West Virginia						
September 1998	–	–	48.8	45.7	–	–
August 1998	–	–	42.7	42.1	–	–
September 1997	W	–	59.9	56.0	–	–
PAD District II						
September 1998	NA	52.3	48.3	46.1	W	–
August 1998	NA	47.0	44.9	41.0	W	W
September 1997	W	62.3	58.4	56.7	52.1	NA
Illinois						
September 1998	W	50.7	46.4	44.1	–	–
August 1998	W	45.0	44.1	38.8	–	–
September 1997	W	58.9	57.5	53.9	–	–
Indiana						
September 1998	NA	50.0	47.4	45.2	W	–
August 1998	W	44.4	43.4	40.3	W	–
September 1997	W	59.2	57.0	55.3	W	–
Iowa						
September 1998	NA	51.8	NA	48.3	–	–
August 1998	NA	47.8	NA	43.4	–	–
September 1997	W	63.8	59.6	59.3	–	–
Kansas						
September 1998	W	50.0	NA	47.0	–	–
August 1998	NA	48.6	46.8	42.5	–	–
September 1997	–	59.5	61.3	58.0	–	–
Kentucky						
September 1998	–	W	48.5	45.4	W	–
August 1998	–	W	44.1	40.1	W	–
September 1997	–	W	58.4	56.4	W	–
Michigan						
September 1998	W	52.2	49.1	46.2	–	–
August 1998	W	45.6	45.0	40.9	–	–
September 1997	W	59.6	58.0	55.8	–	–
Minnesota						
September 1998	W	53.1	NA	48.3	W	–
August 1998	W	47.8	48.8	43.3	W	W
September 1997	W	64.8	62.5	60.0	W	NA
Missouri						
September 1998	NA	52.5	49.1	46.1	–	–
August 1998	NA	47.5	45.8	41.0	–	–
September 1997	W	63.9	59.4	56.5	–	–

See footnotes at end of table.

Table 37. Refiner Prices of Distillate Fuels by PAD District and State

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	No. 1 Distillate		No. 2 Distillate[a]		No. 4 Fuel[b]	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
Nebraska						
September 1998	W	53.8	46.2	48.7	–	–
August 1998	NA	48.8	45.9	43.8	–	–
September 1997	–	65.1	59.9	59.6	–	–
North Dakota						
September 1998	NA	54.2	W	NA	–	–
August 1998	NA	49.7	W	47.0	–	–
September 1997	W	66.3	W	62.1	–	–
Ohio						
September 1998	W	NA	50.4	46.7	–	–
August 1998	W	46.5	46.3	41.3	W	–
September 1997	W	59.3	60.1	55.8	W	–
Oklahoma						
September 1998	–	47.3	46.5	44.7	–	–
August 1998	–	42.1	43.6	40.6	–	–
September 1997	W	W	57.3	56.3	–	–
South Dakota						
September 1998	W	54.7	48.6	49.9	–	–
August 1998	NA	50.1	48.6	46.2	–	–
September 1997	W	66.9	61.0	61.2	–	–
Tennessee						
September 1998	–	W	48.4	44.7	W	–
August 1998	–	W	45.0	38.6	W	–
September 1997	–	–	56.9	55.0	W	–
Wisconsin						
September 1998	W	51.0	48.4	45.7	–	–
August 1998	W	44.9	43.7	40.4	–	–
September 1997	W	61.6	57.6	56.2	W	–
PAD District III						
September 1998	–	W	46.7	41.6	W	W
August 1998	–	W	44.1	37.0	W	–
September 1997	–	W	58.3	53.7	–	–
Alabama						
September 1998	–	–	46.1	43.6	–	–
August 1998	–	–	42.0	37.8	–	–
September 1997	–	–	56.9	54.6	–	–
Arkansas						
September 1998	–	–	53.5	44.0	–	–
August 1998	–	–	51.0	38.7	–	–
September 1997	–	–	58.0	54.9	–	–
Louisiana						
September 1998	–	–	45.8	39.9	–	–
August 1998	–	–	44.0	35.8	–	–
September 1997	–	–	59.3	52.4	–	–
Mississippi						
September 1998	–	–	44.6	42.6	W	W
August 1998	–	–	39.4	37.7	W	–
September 1997	–	–	56.7	53.7	–	–
New Mexico						
September 1998	–	56.4	67.1	45.9	–	–
August 1998	–	53.2	69.5	43.7	–	–
September 1997	–	74.1	75.5	63.3	–	–
Texas						
September 1998	–	W	45.5	41.3	–	W
August 1998	–	W	42.9	36.6	–	–
September 1997	–	W	57.6	53.4	–	–
PAD District IV						
September 1998	NA	60.6	55.4	52.1	–	–
August 1998	NA	59.1	54.1	49.6	–	–
September 1997	75.9	74.0	68.9	65.8	–	–
Colorado						
September 1998	W	54.8	51.8	46.7	–	–
August 1998	W	51.7	55.6	43.5	–	–
September 1997	W	67.2	64.3	59.3	–	–

See footnotes at end of table.

Table 37. Refiner Prices of Distillate Fuels by PAD District and State

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	No. 1 Distillate		No. 2 Distillate[a]		No. 4 Fuel[b]	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
Idaho						
September 1998	W	64.5	57.5	56.5	–	–
August 1998	NA	64.3	54.1	52.9	–	–
September 1997	W	82.7	73.4	73.5	–	–
Montana						
September 1998	W	63.2	55.7	53.7	–	–
August 1998	W	63.7	55.0	53.1	–	–
September 1997	W	76.5	65.1	66.1	–	–
Utah						
September 1998	W	NA	56.1	57.2	–	–
August 1998	W	NA	51.2	53.8	–	–
September 1997	–	81.6	74.4	71.9	–	–
Wyoming						
September 1998	62.5	59.3	56.7	49.3	–	–
August 1998	W	58.8	55.6	47.9	–	–
September 1997	74.8	74.2	68.5	63.4	–	–
PAD District V						
September 1998	57.1	54.8	53.1	49.8	W	W
August 1998	52.0	57.8	51.2	48.7	W	W
September 1997	62.3	78.1	66.7	67.5	W	61.7
Alaska						
September 1998	56.9	54.3	NA	50.5	W	W
August 1998	51.9	57.6	68.3	53.2	W	W
September 1997	W	78.0	71.6	71.7	W	W
Arizona						
September 1998	–	W	54.8	48.2	–	–
August 1998	–	W	54.2	44.9	–	–
September 1997	–	–	67.6	62.8	–	–
California						
September 1998	–	–	51.0	50.3	–	W
August 1998	–	–	50.2	48.6	–	W
September 1997	–	–	68.0	66.9	–	W
Hawaii						
September 1998	–	–	W	69.3	–	–
August 1998	–	–	W	69.1	–	–
September 1997	–	–	W	79.5	–	–
Nevada						
September 1998	–	–	56.3	50.8	–	–
August 1998	–	–	W	49.4	–	–
September 1997	–	–	71.8	68.1	–	–
Oregon						
September 1998	–	W	W	48.1	–	–
August 1998	–	57.5	47.3	48.3	–	–
September 1997	–	NA	64.8	69.1	–	–
Washington						
September 1998	W	58.5	45.1	48.1	–	–
August 1998	W	59.4	44.8	48.8	–	–
September 1997	W	81.4	63.1	68.8	W	W

Dash (–) = No data reported.
NA = Not available.
W = Withheld to avoid disclosure of individual company data.
[a] Includes sales of No. 2 fuel oil and high- and low-sulfur diesel fuels.
[b] Includes No. 4 fuel oil and No. 4 diesel fuel.
Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual.*
Notes: PAD District and U.S. averages represent data for all States. In certain PAD Districts, however, prices are not shown for every State.
Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

Table 38. Propane (Consumer Grade) Prices by Sales Type and PAD District

(Cents per Gallon Excluding Taxes)

Geographic Area Month	Sales to End Users							Sales for Resale
	Residential Consumers	Commercial/ Institutional Consumers	Industrial Consumers	Through Retail Outlets	Petro-Chemical	Other End Users	Average	
United States								
September 1998	82.0	79.2	65.4	58.1	24.3	59.7	71.7	26.9
August 1998	82.2	80.5	67.1	59.3	24.3	64.4	70.8	26.5
September 1997	88.4	84.3	80.9	68.2	37.6	70.0	78.5	40.4
PAD District I								
September 1998	104.7	82.6	67.5	56.5	W	66.4	88.7	32.2
August 1998	105.0	83.1	70.0	56.8	W	69.0	87.7	32.2
September 1997	113.2	85.6	94.6	64.9	W	76.4	97.1	45.2
Subdistrict IA								
September 1998	117.7	85.6	W	51.2	–	NA	95.8	36.3
August 1998	117.2	84.8	W	50.5	–	81.2	94.5	36.8
September 1997	136.5	92.7	NA	61.1	–	121.0	128.5	50.0
Subdistrict IB								
September 1998	111.7	80.4	74.3	64.6	–	NA	97.3	31.6
August 1998	113.8	84.3	79.0	66.0	–	85.6	100.8	31.3
September 1997	118.6	89.7	80.3	69.6	–	87.5	105.6	44.1
Subdistrict IC								
September 1998	95.5	82.7	63.6	W	W	64.3	82.3	31.9
August 1998	94.6	82.2	62.2	W	W	66.3	80.1	32.1
September 1997	100.2	81.4	70.4	W	W	72.2	84.2	44.9
PAD District II								
September 1998	66.4	71.2	69.7	58.6	W	55.3	64.6	26.5
August 1998	67.6	75.3	71.0	57.8	W	59.7	67.2	25.9
September 1997	73.7	78.5	76.0	67.9	W	64.2	72.3	40.5
PAD District III								
September 1998	85.5	73.9	62.2	59.8	24.3	61.9	54.6	25.4
August 1998	84.8	74.0	62.4	60.1	24.3	63.7	48.9	25.0
September 1997	89.1	77.6	71.6	72.9	37.5	71.4	59.9	38.7
PAD District IV								
September 1998	63.3	82.3	45.4	55.6	–	68.9	63.6	24.9
August 1998	62.7	82.5	43.1	61.2	–	65.8	62.9	24.4
September 1997	69.9	86.1	52.7	63.4	–	73.8	70.4	37.9
PAD District V								
September 1998	89.7	84.9	59.0	59.9	–	58.4	80.4	27.8
August 1998	89.5	86.9	62.1	64.4	–	61.6	81.0	27.9
September 1997	100.3	96.6	70.9	72.3	–	69.0	90.7	42.9

Dash (–) = No data reported.
NA = Not available.
W = Withheld to avoid disclosure of individual company data.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual.*

Sources: Energy Information Administration Forms EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report."

Table 39. No. 2 Distillate[a] Prices by Sales Type, PAD District, and Selected States[b]

(Cents per Gallon Excluding Taxes)

Geographic Area Month	Sales to End Users						Sales for Resale
	Residential Consumers	Commercial/ Institutional Consumers	Industrial Consumers	Through Retail Outlets[c]	Other End Users[d]	Average	
United States							
September 1998	77.2	51.6	55.3	58.1	59.9	57.0	45.5
August 1998	75.5	48.7	52.4	56.2	56.9	54.1	41.3
September 1997	88.5	63.6	68.5	71.1	73.4	70.0	57.9
PAD District I							
September 1998	77.8	52.5	55.1	57.5	56.1	58.5	43.9
August 1998	76.1	48.5	52.0	55.8	51.0	54.5	39.2
September 1997	88.7	63.8	67.5	70.2	68.6	71.1	56.2
Subdistrict IA							
September 1998	74.2	55.3	62.7	65.7	54.0	66.0	44.4
August 1998	73.2	51.8	58.7	65.2	50.1	62.6	39.8
September 1997	87.0	68.2	73.1	80.5	64.5	78.5	58.5
Connecticut							
September 1998	73.1	54.0	NA	66.4	56.4	66.4	43.8
August 1998	71.4	49.6	45.1	65.3	50.7	63.0	39.7
September 1997	85.5	68.2	63.1	83.4	70.3	77.8	58.4
Maine							
September 1998	74.4	57.1	53.1	63.8	61.1	66.0	45.8
August 1998	74.3	54.0	47.3	63.2	57.6	62.4	40.2
September 1997	87.1	72.4	NA	79.0	NA	79.0	59.4
Massachusetts							
September 1998	74.1	53.0	72.4	69.3	46.2	65.3	43.7
August 1998	74.0	50.2	69.5	69.2	41.5	62.2	40.4
September 1997	87.0	64.9	82.0	83.1	57.9	77.6	58.7
New Hampshire							
September 1998	70.8	56.3	56.5	64.6	NA	64.0	45.1
August 1998	68.5	52.6	53.7	64.0	56.3	60.5	38.9
September 1997	86.3	72.2	69.8	79.3	NA	79.6	58.4
Rhode Island							
September 1998	79.6	57.2	NA	63.6	NA	68.7	44.6
August 1998	78.8	53.6	NA	65.6	NA	65.3	38.0
September 1997	91.2	68.9	NA	80.2	66.6	81.7	56.6
Vermont							
September 1998	80.5	59.3	58.3	67.3	63.1	69.0	49.9
August 1998	80.9	56.5	NA	69.3	62.5	65.9	43.8
September 1997	91.7	69.2	NA	80.5	71.3	80.9	61.0
Subdistrict IB							
September 1998	80.2	52.7	NA	58.5	58.6	60.4	43.0
August 1998	77.7	49.1	53.1	56.7	51.6	56.4	38.9
September 1997	90.4	64.0	68.5	70.6	67.8	72.7	55.5
Delaware							
September 1998	73.0	51.8	63.1	57.8	NA	57.1	44.1
August 1998	74.5	NA	60.0	57.2	NA	54.8	39.0
September 1997	87.8	63.5	70.7	73.9	64.0	71.0	56.5
District of Columbia							
September 1998	84.6	50.2	–	W	W	56.2	NA
August 1998	85.6	48.1	–	W	W	55.1	NA
September 1997	96.6	61.7	–	W	W	64.3	55.1
Maryland							
September 1998	81.7	54.7	55.9	58.2	51.5	59.7	46.6
August 1998	79.4	51.9	52.3	56.3	46.2	55.7	41.6
September 1997	94.5	63.8	65.2	72.4	60.9	69.9	57.2
New Jersey							
September 1998	80.0	50.9	NA	57.6	48.5	59.7	41.1
August 1998	76.8	46.7	NA	57.3	44.2	55.7	37.5
September 1997	90.7	61.7	74.2	70.1	59.9	71.8	54.3
New York							
September 1998	85.9	53.9	54.4	65.0	67.9	64.2	44.1
August 1998	83.8	50.3	50.6	65.3	65.1	59.9	39.4
September 1997	94.5	66.6	66.6	77.8	76.2	78.0	56.8

See footnotes at end of table.

Table 39. No. 2 Distillate[a] Prices by Sales Type, PAD District, and Selected States[b]

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Sales to End Users						Sales for Resale
	Residential Consumers	Commercial/ Institutional Consumers	Industrial Consumers	Through Retail Outlets[c]	Other End Users[d]	Average	
Pennsylvania							
September 1998	71.7	51.1	52.2	57.1	NA	57.2	44.1
August 1998	69.9	47.7	48.9	54.7	48.4	53.7	39.9
September 1997	82.8	62.0	65.6	69.1	71.6	69.0	55.8
Subdistrict IC							
September 1998	80.0	51.6	53.7	55.3	55.5	54.7	45.0
August 1998	77.9	47.2	50.9	53.6	50.9	51.1	39.3
September 1997	86.3	62.3	66.5	68.9	69.5	67.3	55.9
Virginia							
September 1998	81.6	52.1	52.1	53.6	58.5	56.2	44.9
August 1998	79.8	47.7	47.7	52.5	57.7	53.1	39.4
September 1997	85.2	61.0	61.1	68.8	76.8	68.1	56.0
West Virginia							
September 1998	72.8	NA	NA	62.4	NA	57.2	49.1
August 1998	72.7	44.5	51.1	62.3	55.5	53.2	45.2
September 1997	87.5	61.6	63.5	NA	70.0	68.4	58.0
PAD District II							
September 1998	72.8	50.9	55.5	57.5	62.9	56.5	46.7
August 1998	70.8	47.4	52.3	54.8	60.4	53.4	41.9
September 1997	84.7	61.7	66.6	69.8	75.5	68.5	57.3
Illinois							
September 1998	66.3	49.7	54.2	62.6	67.1	56.6	44.6
August 1998	NA	46.4	48.6	60.9	65.2	53.7	39.6
September 1997	77.4	61.9	60.1	73.8	76.7	68.4	54.6
Indiana							
September 1998	72.4	49.6	51.9	56.3	64.9	54.9	45.4
August 1998	70.6	45.9	48.8	52.5	61.3	51.2	40.9
September 1997	80.2	60.2	64.8	67.2	76.3	65.8	56.3
Michigan							
September 1998	77.2	56.9	57.4	60.3	59.7	60.3	47.7
August 1998	74.5	52.5	53.4	57.7	55.7	56.0	42.7
September 1997	88.3	64.9	66.5	73.7	69.8	70.2	57.0
Minnesota							
September 1998	70.5	54.9	61.8	60.4	65.1	61.6	49.1
August 1998	68.2	53.1	59.9	59.8	61.2	59.0	44.8
September 1997	84.9	66.9	75.3	77.6	81.4	77.5	61.2
Ohio							
September 1998	72.3	51.0	55.9	58.0	57.7	55.4	47.3
August 1998	70.1	46.5	52.5	55.1	54.0	51.6	42.3
September 1997	84.3	61.0	66.3	68.2	70.3	66.1	56.7
Wisconsin							
September 1998	74.9	53.8	60.8	59.6	70.3	60.6	46.2
August 1998	75.5	49.0	58.4	58.2	67.1	57.4	40.9
September 1997	88.0	64.5	68.7	71.4	75.9	71.0	56.8
PAD District III							
September 1998	59.8	47.8	52.0	54.0	56.1	52.0	42.2
August 1998	55.1	44.5	48.9	52.5	53.4	50.0	37.8
September 1997	72.3	58.9	65.0	67.2	68.6	64.3	54.2
PAD District IV							
September 1998	79.4	56.8	62.9	65.0	65.9	62.3	52.6
August 1998	77.9	56.7	61.3	63.3	65.3	61.4	50.7
September 1997	89.9	70.7	78.9	80.4	82.8	77.6	67.0
Idaho							
September 1998	78.4	61.5	68.5	68.7	68.7	67.9	57.6
August 1998	79.7	58.2	67.7	66.3	68.0	66.2	54.4
September 1997	91.2	78.7	85.5	82.8	87.4	84.5	74.3

See footnotes at end of table.

Table 39. No. 2 Distillate[a] Prices by Sales Type, PAD District, and Selected States[b]

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Sales to End Users						Sales for Resale
	Residential Consumers	Commercial/ Institutional Consumers	Industrial Consumers	Through Retail Outlets[c]	Other End Users[d]	Average	
PAD District V							
September 1998	86.5	54.2	56.3	68.4	59.1	59.0	50.2
August 1998	84.1	53.1	55.8	67.4	59.1	58.0	48.9
September 1997	103.6	69.5	75.0	84.5	75.8	75.0	67.4
Alaska							
September 1998	83.4	NA	NA	89.2	74.1	NA	52.2
August 1998	82.5	70.8	58.3	89.6	76.7	72.7	54.7
September 1997	96.6	84.0	87.9	106.7	96.2	89.8	76.3
Oregon							
September 1998	83.7	56.4	58.6	67.3	61.2	59.9	49.4
August 1998	82.4	57.0	58.8	66.2	60.4	59.9	48.9
September 1997	101.5	73.0	80.5	86.1	81.6	78.1	70.2
Washington							
September 1998	91.3	54.1	60.6	70.2	69.8	61.6	48.7
August 1998	88.5	53.4	61.6	69.2	69.9	60.8	49.5
September 1997	110.9	71.9	78.4	88.4	92.5	80.0	69.9

Dash (–) = No data reported.
NA = Not available.
W = Withheld to avoid disclosure of individual company data.
a Includes sales of No. 2 fuel oil and high- and low-sulfur diesel fuels.
b Some State data are not sufficient for publication individually, but are used in calculating the PAD District average.
c Includes low-sulfur diesel fuel only with the exception of Alaska, which currently is exempt from the Clean Air Act's diesel fuel sulfur content requirement.
d All end-user sales not included in the other end-user categories shown, e.g., sales to agricultural customers or utilities.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual.*

Sources: Energy Information Administration Forms EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report."

Table 40. No. 2 Diesel Fuel Prices by Sales Type, PAD District, and Selected States

(Cents per Gallon Excluding Taxes)

Geographic Area Month	Sales to End Users					Sales for Resale
	Commercial/ Institutional Consumers	Industrial Consumers	Through Retail Outlets[a]	Other End Users[b]	Average	
United States						
September 1998	51.5	55.9	58.1	60.4	55.8	46.2
August 1998	48.6	53.2	56.2	57.7	53.4	42.2
September 1997	63.4	69.3	71.1	73.9	68.6	58.7
PAD District I						
September 1998	51.9	55.6	57.5	57.7	54.8	45.1
August 1998	48.1	53.0	55.8	52.9	51.7	40.0
September 1997	63.0	68.4	70.2	69.8	66.8	56.5
Subdistrict IA						
September 1998	54.3	68.9	65.7	58.5	59.9	46.3
August 1998	51.2	65.8	65.2	54.7	57.7	41.1
September 1997	66.6	78.9	80.5	68.0	71.1	57.9
Connecticut						
September 1998	51.6	53.6	66.4	60.2	58.0	45.5
August 1998	46.9	46.9	65.3	57.8	54.9	41.0
September 1997	67.1	64.0	83.4	69.6	68.1	56.9
Maine						
September 1998	58.9	55.3	63.8	61.3	61.7	48.3
August 1998	56.7	53.9	63.2	57.5	60.4	43.2
September 1997	74.3	74.3	79.0	NA	76.2	59.5
Massachusetts						
September 1998	53.4	NA	69.3	51.0	60.2	45.5
August 1998	51.0	74.1	69.2	47.0	57.7	41.2
September 1997	64.4	86.3	83.1	63.7	70.4	57.6
New Hampshire						
September 1998	52.9	62.8	64.6	61.9	60.1	46.9
August 1998	49.4	62.2	64.0	63.0	58.2	40.0
September 1997	67.1	78.9	79.3	NA	74.3	57.7
Rhode Island						
September 1998	54.3	NA	63.6	NA	55.3	46.2
August 1998	51.6	NA	65.6	NA	52.7	38.8
September 1997	66.1	NA	80.2	66.3	67.2	57.7
Vermont						
September 1998	58.3	64.3	67.3	62.2	61.1	52.1
August 1998	55.7	NA	69.3	61.6	59.5	45.9
September 1997	67.4	NA	80.5	70.3	71.3	63.4
Subdistrict IB						
September 1998	52.1	NA	58.5	61.6	55.3	44.5
August 1998	48.5	54.0	56.7	58.1	52.3	40.1
September 1997	63.3	70.4	70.6	70.7	66.7	56.7
Delaware						
September 1998	52.3	63.7	57.8	54.9	55.6	45.0
August 1998	NA	59.6	57.2	51.4	53.2	39.5
September 1997	63.6	71.2	73.9	68.9	67.8	56.5
District of Columbia						
September 1998	48.0	–	W	W	50.9	46.2
August 1998	45.8	–	W	W	49.4	NA
September 1997	58.9	–	W	W	62.1	60.5
Maryland						
September 1998	54.5	56.8	58.2	56.7	55.7	47.4
August 1998	51.7	53.2	56.3	53.7	53.3	42.4
September 1997	63.0	64.4	72.4	70.2	65.2	57.9
New Jersey						
September 1998	50.1	NA	57.6	53.8	55.7	42.4
August 1998	46.0	NA	57.3	52.6	53.4	38.6
September 1997	61.1	NA	70.1	59.5	66.4	56.1
New York						
September 1998	53.3	55.7	65.0	67.7	56.4	46.9
August 1998	49.6	51.2	65.3	64.5	52.9	41.6
September 1997	65.9	68.6	77.8	76.5	69.0	58.8

See footnotes at end of table.

Table 40. No. 2 Diesel Fuel Prices by Sales Type, PAD District, and Selected States

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Sales to End Users					Sales for Resale
	Commercial/ Institutional Consumers	Industrial Consumers	Through Retail Outlets[a]	Other End Users[b]	Average	
Pennsylvania						
September 1998	50.8	52.1	57.1	60.9	54.3	44.9
August 1998	47.3	48.7	54.7	56.3	51.3	40.6
September 1997	61.8	65.7	69.1	72.3	65.7	56.2
Subdistrict IC						
September 1998	51.4	53.9	55.3	56.6	53.8	45.3
August 1998	47.1	51.7	53.6	51.8	50.6	39.7
September 1997	61.7	67.0	68.9	69.7	66.2	56.0
Virginia						
September 1998	52.1	56.2	53.6	59.8	53.6	45.6
August 1998	47.8	50.3	52.5	59.7	50.6	39.9
September 1997	60.8	62.1	68.8	75.3	65.8	56.4
West Virginia						
September 1998	56.0	NA	62.4	57.0	58.1	50.1
August 1998	51.4	51.1	62.3	55.3	56.3	46.9
September 1997	60.8	64.7	NA	70.1	68.4	58.6
PAD District II						
September 1998	51.3	56.5	57.5	63.1	56.6	47.0
August 1998	47.5	53.5	54.8	61.0	53.6	42.3
September 1997	61.8	67.9	69.8	76.0	68.4	57.8
Illinois						
September 1998	50.0	58.4	62.6	67.4	57.5	45.0
August 1998	46.6	53.4	60.9	66.1	54.8	40.5
September 1997	61.9	66.0	73.8	77.1	69.1	55.8
Indiana						
September 1998	50.2	54.5	56.3	65.9	55.1	45.8
August 1998	46.4	53.0	52.5	62.5	51.3	41.4
September 1997	61.2	68.5	67.2	78.0	66.3	56.7
Michigan						
September 1998	57.0	58.3	60.3	60.7	58.7	48.0
August 1998	52.5	54.8	57.7	57.9	55.1	43.1
September 1997	64.1	67.0	73.7	72.4	68.5	57.4
Minnesota						
September 1998	57.1	63.4	60.4	65.0	62.0	49.4
August 1998	54.7	62.7	59.8	63.7	60.2	44.7
September 1997	68.9	77.3	77.6	81.4	77.9	61.4
Ohio						
September 1998	51.3	55.9	58.0	59.1	55.3	48.0
August 1998	46.9	52.3	55.1	56.1	51.7	42.8
September 1997	60.6	66.4	68.2	71.5	65.1	57.1
Wisconsin						
September 1998	54.1	61.7	59.6	70.5	59.9	46.6
August 1998	49.1	59.2	58.2	67.2	56.8	41.2
September 1997	64.3	69.1	71.4	78.7	69.8	57.1
PAD District III						
September 1998	47.8	52.6	54.0	56.1	52.1	42.6
August 1998	44.6	49.4	52.5	53.4	50.1	38.3
September 1997	59.1	65.2	67.2	68.7	64.6	54.6
PAD District IV						
September 1998	57.2	63.4	65.0	65.9	62.6	52.6
August 1998	57.3	61.8	63.3	65.3	61.7	50.7
September 1997	70.6	78.9	80.4	82.8	77.6	67.0
Idaho						
September 1998	61.4	68.5	68.7	68.7	67.8	57.6
August 1998	57.9	67.7	66.3	68.2	66.2	54.4
September 1997	78.1	85.5	82.8	87.4	84.4	74.3

See footnotes at end of table.

Table 40. No. 2 Diesel Fuel Prices by Sales Type, PAD District, and Selected States

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Sales to End Users					Sales for Resale
	Commercial/ Institutional Consumers	Industrial Consumers	Through Retail Outlets[a]	Other End Users[b]	Average	
PAD District V						
September 1998	53.5	56.2	68.4	59.1	58.3	50.3
August 1998	52.5	55.6	67.4	59.0	57.6	48.8
September 1997	69.5	75.0	84.5	75.7	74.5	67.3
Alaska						
September 1998	NA	NA	89.2	74.1	NA	53.9
August 1998	72.4	56.1	89.6	76.7	73.3	55.2
September 1997	NA	88.0	106.7	96.2	90.9	79.3
Oregon						
September 1998	56.5	58.6	67.3	61.2	59.5	49.4
August 1998	57.0	58.8	66.2	60.4	59.7	48.9
September 1997	72.9	80.5	86.1	81.6	77.6	70.2
Washington						
September 1998	53.7	60.8	70.2	69.8	60.7	48.7
August 1998	53.2	61.6	69.2	69.9	60.4	49.5
September 1997	71.7	78.6	88.4	92.4	78.7	69.9

Dash (–) = No data reported.
NA = Not available.
W = Withheld to avoid disclosure of individual company data.
[a] Includes low-sulfur diesel fuel only with the exception of Alaska, which currently is exempt from the Clean Air Act's diesel fuel sulfur content requirement.
[b] All end-user sales not included in the other end-user categories shown, e.g., sales to agricultural customers or utilities.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual.*

Sources: Energy Information Administration Forms EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report."

Table 41. No. 2 Diesel Fuel Prices by Sulfur Content, Sales Type, and PAD District

(Cents per Gallon Excluding Taxes)

Geographic Area Month	Low-Sulfur Diesel Fuel						High-Sulfur Diesel Fuel				
	Sales to End Users					Sales for Resale	Sales to End Users				Sales for Resale
	Commercial/ Institutional Consumers	Industrial Consumers	Through Retail Outlets[a]	Other End Users[b]	Average		Commercial/ Institutional Consumers	Industrial Consumers	Other End Users[b]	Average	
United States											
September 1998	51.6	56.0	58.1	60.5	56.0	46.6	51.2	55.8	60.3	55.0	44.1
August 1998	48.4	53.3	56.2	57.4	53.6	42.4	48.9	53.1	58.2	52.5	40.6
September 1997	63.6	70.4	71.1	74.3	69.0	58.8	63.1	68.1	73.3	67.3	57.9
PAD District I											
September 1998	50.8	54.9	57.5	54.3	54.1	45.6	55.3	56.4	60.5	57.0	42.5
August 1998	46.4	51.2	55.8	48.1	50.9	40.2	52.5	55.0	57.9	54.4	39.0
September 1997	62.2	69.2	70.2	65.9	66.4	56.6	65.4	67.5	72.9	67.8	56.2
Subdistrict IA											
September 1998	55.0	NA	65.7	57.5	60.8	46.4	51.4	NA	68.3	53.2	45.4
August 1998	51.8	66.6	65.2	53.4	58.6	41.1	49.4	61.6	68.3	51.5	41.0
September 1997	66.7	79.4	80.5	67.3	71.5	58.3	66.2	76.6	77.5	68.2	55.4
Subdistrict IB											
September 1998	51.2	NA	58.5	61.2	55.0	45.4	55.8	54.7	62.0	56.6	37.9
August 1998	47.1	55.4	56.7	56.1	51.9	40.3	53.6	51.1	60.3	54.0	36.9
September 1997	62.6	73.6	70.6	69.5	66.6	56.7	66.0	66.3	72.0	67.2	55.5
Subdistrict IC											
September 1998	49.5	50.4	55.3	51.2	52.3	45.5	55.6	56.8	60.1	57.3	44.5
August 1998	44.7	46.8	53.6	45.9	48.8	39.8	52.3	55.7	57.4	54.7	39.3
September 1997	60.3	66.2	68.9	63.9	65.4	55.9	64.9	67.6	73.1	68.1	56.5
PAD District II											
September 1998	51.6	55.8	57.5	63.4	56.7	47.0	50.6	57.1	62.7	56.4	47.0
August 1998	47.6	53.0	54.8	61.3	53.7	42.3	47.3	53.8	60.6	53.1	41.6
September 1997	61.9	67.1	69.8	76.7	68.5	57.7	61.6	68.6	74.9	68.1	58.5
PAD District III											
September 1998	50.0	53.5	54.0	56.6	53.2	43.2	43.8	51.3	55.5	48.9	40.4
August 1998	47.4	50.5	52.5	53.5	51.5	38.6	41.6	47.7	53.1	46.5	37.4
September 1997	60.2	67.3	67.2	68.8	65.6	54.9	57.7	62.7	68.5	62.2	53.4
PAD District IV											
September 1998	59.1	63.4	65.0	65.9	63.6	52.4	54.5	63.2	66.0	58.3	55.5
August 1998	58.0	62.5	63.3	65.5	62.4	50.7	56.3	58.4	64.8	58.5	50.9
September 1997	72.6	76.2	80.4	83.2	78.6	66.7	68.0	82.2	81.6	74.5	70.4
PAD District V											
September 1998	53.2	56.5	68.4	60.0	59.1	50.3	54.4	55.5	58.4	55.8	49.6
August 1998	52.7	56.3	67.4	58.3	58.6	48.7	51.9	54.6	59.6	54.6	49.5
September 1997	70.7	77.2	84.5	75.4	75.9	67.6	66.8	70.7	76.6	69.9	66.1

NA = Not available.

[a] Includes low-sulfur diesel fuel only with the exception of Alaska, which currently is exempt from the Clean Air Act's diesel fuel sulfur content requirement.

[b] All end-user sales not included in the other end-user categories shown, e.g., sales to agricultural customers or utilities.

Notes: Some State data are not sufficient for publication individually, but are used in calculating the PAD District average.

Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual.*

Sources: Energy Information Administration Forms EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report."

Table 42. Residual Fuel Oil Prices by PAD District and State

(Cents per Gallon Excluding Taxes)

Geographic Area Month	Sulfur Less Than or Equal to 1 Percent		Sulfur Greater Than 1 Percent		Average	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
United States						
September 1998	32.0	29.9	26.3	27.1	27.7	27.9
August 1998	32.5	27.6	27.7	26.5	29.1	27.0
September 1997	43.9	40.3	40.2	38.0	41.4	39.0
PAD District I						
September 1998	31.2	30.6	27.3	29.4	28.7	29.9
August 1998	32.0	28.9	29.0	28.7	30.1	28.8
September 1997	42.9	41.7	41.2	39.2	42.0	40.9
Subdistrict IA						
September 1998	28.3	30.3	30.5	NA	29.2	NA
August 1998	31.2	28.8	31.6	W	31.3	31.2
September 1997	42.2	41.1	41.6	38.3	42.0	39.8
Connecticut						
September 1998	40.5	–	–	W	NA	W
August 1998	42.7	–	W	–	28.2	–
September 1997	43.7	W	W	–	41.9	W
Maine						
September 1998	W	W	29.8	37.7	30.5	W
August 1998	W	W	31.5	W	31.8	W
September 1997	44.8	W	41.5	W	43.1	39.0
Massachusetts						
September 1998	W	31.0	30.9	W	27.8	NA
August 1998	31.9	W	34.5	W	32.2	30.9
September 1997	41.0	40.5	41.7	W	41.1	39.6
New Hampshire						
September 1998	W	W	NA	–	NA	W
August 1998	W	W	32.8	–	26.8	W
September 1997	NA	NA	44.2	–	45.8	NA
Rhode Island						
September 1998	34.3	W	NA	–	33.6	W
August 1998	W	W	W	–	33.9	W
September 1997	43.3	W	W	NA	43.4	W
Vermont						
September 1998	W	–	29.7	–	29.9	–
August 1998	–	–	31.0	–	31.0	–
September 1997	W	–	43.0	–	43.3	–
Subdistrict IB						
September 1998	32.8	31.0	25.1	NA	28.3	30.4
August 1998	32.0	27.7	27.4	23.2	29.5	26.8
September 1997	45.7	41.7	40.1	38.4	42.8	40.9
Delaware						
September 1998	NA	W	28.7	W	29.3	W
August 1998	31.5	W	30.1	W	30.6	W
September 1997	45.6	W	39.0	W	41.9	38.0
District of Columbia						
September 1998	W	–	–	–	W	–
August 1998	W	–	–	–	W	–
September 1997	W	–	–	–	W	–
Maryland						
September 1998	W	W	26.7	W	28.2	W
August 1998	W	W	29.9	W	28.1	24.4
September 1997	W	W	44.0	W	40.9	W
New Jersey						
September 1998	29.4	30.4	24.6	30.2	27.1	30.3
August 1998	29.5	26.0	25.0	W	27.7	NA
September 1997	NA	42.4	41.4	38.1	43.5	39.9
New York						
September 1998	34.7	31.2	24.7	W	28.5	31.1
August 1998	32.6	29.5	26.4	24.0	29.2	29.3
September 1997	48.5	42.3	40.1	40.8	44.1	42.2
Pennsylvania						
September 1998	36.2	W	24.7	W	29.3	W
August 1998	35.4	27.6	28.7	22.0	30.7	26.5
September 1997	45.8	40.0	37.8	W	40.0	39.8

See footnotes at end of table.

Table 42. Residual Fuel Oil Prices by PAD District and State

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Sulfur Less Than or Equal to 1 Percent		Sulfur Greater Than 1 Percent		Average	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
Subdistrict IC						
September 1998	32.9	W	28.9	25.9	29.1	27.6
August 1998	33.8	30.3	30.4	26.3	30.8	28.9
September 1997	41.1	W	41.6	40.6	41.4	41.4
Florida						
September 1998	W	W	28.3	W	28.4	W
August 1998	–	W	30.8	W	30.8	29.4
September 1997	40.8	W	41.4	39.6	41.1	W
Georgia						
September 1998	–	–	31.4	W	31.4	W
August 1998	–	–	32.6	W	32.6	W
September 1997	–	–	42.5	–	42.5	–
North Carolina						
September 1998	W	–	29.7	W	30.2	W
August 1998	W	–	28.4	27.5	29.0	27.5
September 1997	W	W	42.1	W	42.8	W
South Carolina						
September 1998	W	–	W	W	W	W
August 1998	W	–	W	W	W	W
September 1997	W	W	W	W	W	W
Virginia						
September 1998	30.6	W	27.5	W	28.6	W
August 1998	33.4	W	27.7	W	30.6	W
September 1997	42.6	W	40.9	W	41.1	45.0
West Virginia						
September 1998	W	–	–	–	W	–
August 1998	W	W	–	–	W	W
September 1997	–	–	W	–	W	–
PAD District II						
September 1998	36.9	32.0	36.1	31.6	36.5	31.6
August 1998	37.2	29.7	35.9	28.8	36.7	29.0
September 1997	39.8	38.0	40.2	35.1	40.1	35.2
Illinois						
September 1998	39.7	W	W	NA	40.0	W
August 1998	W	W	W	NA	W	NA
September 1997	W	W	W	W	42.4	W
Indiana						
September 1998	W	W	35.0	W	35.1	W
August 1998	W	W	34.8	W	35.0	W
September 1997	W	W	45.7	W	45.7	W
Iowa						
September 1998	W	–	–	–	W	–
August 1998	W	–	–	–	W	–
September 1997	W	–	–	–	W	–
Kansas						
September 1998	W	–	39.8	19.3	39.8	19.3
August 1998	–	–	W	18.6	W	18.6
September 1997	W	–	W	W	W	W
Kentucky						
September 1998	W	–	–	W	W	W
August 1998	W	–	–	W	W	W
September 1997	W	–	W	–	W	–
Michigan						
September 1998	37.5	W	35.8	W	36.9	W
August 1998	36.7	W	41.0	W	37.3	W
September 1997	36.1	W	39.7	W	38.4	W
Minnesota						
September 1998	W	–	W	NA	W	NA
August 1998	–	–	W	W	W	W
September 1997	–	–	W	W	W	W
Missouri						
September 1998	W	–	–	–	W	–
August 1998	28.1	W	–	–	28.1	W
September 1997	W	W	W	–	42.3	W

See footnotes at end of table.

Table 42. Residual Fuel Oil Prices by PAD District and State

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Sulfur Less Than or Equal to 1 Percent		Sulfur Greater Than 1 Percent		Average	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
Nebraska						
September 1998	W	–	–	–	W	–
August 1998	W	–	–	–	W	–
September 1997	W	–	W	–	W	–
North Dakota						
September 1998	–	–	W	–	W	–
August 1998	–	–	W	–	W	–
September 1997	–	–	W	–	W	–
Ohio						
September 1998	W	W	33.9	W	37.6	27.3
August 1998	W	W	38.8	27.4	39.8	NA
September 1997	W	–	37.2	W	40.0	W
Oklahoma						
September 1998	–	–	W	–	W	–
August 1998	–	–	W	W	W	W
September 1997	–	–	W	W	W	W
South Dakota						
September 1998	W	–	–	–	W	–
August 1998	W	–	–	W	W	W
September 1997	W	–	–	W	W	W
Tennessee						
September 1998	W	W	W	–	W	W
August 1998	W	W	W	W	W	W
September 1997	W	–	W	W	W	W
Wisconsin						
September 1998	W	W	NA	W	W	W
August 1998	W	W	W	W	W	W
September 1997	–	W	W	W	W	W
PAD District III						
September 1998	–	25.7	24.8	24.8	24.8	25.0
August 1998	–	23.9	25.9	25.0	25.9	24.7
September 1997	W	36.5	38.9	36.9	38.9	36.8
Alabama						
September 1998	–	W	NA	NA	NA	W
August 1998	–	W	NA	NA	NA	W
September 1997	W	W	NA	W	NA	W
Arkansas						
September 1998	–	–	W	–	W	–
August 1998	–	–	W	–	W	–
September 1997	–	–	W	–	W	–
Louisiana						
September 1998	–	W	23.7	24.4	23.7	24.9
August 1998	–	25.0	25.6	25.7	25.6	25.7
September 1997	W	W	38.6	36.3	38.6	36.4
Mississippi						
September 1998	–	W	NA	W	NA	W
August 1998	–	W	NA	27.8	NA	28.4
September 1997	–	W	NA	W	NA	W
New Mexico						
September 1998	–	–	–	–	–	–
August 1998	–	NA	–	–	–	NA
September 1997	–	W	–	–	–	W
Texas						
September 1998	–	23.1	24.3	24.7	24.3	24.5
August 1998	–	22.1	25.1	23.9	25.1	23.3
September 1997	W	35.1	37.7	37.5	37.7	36.6
PAD District IV						
September 1998	W	W	W	W	28.9	W
August 1998	W	W	W	W	27.0	21.4
September 1997	W	28.3	29.0	W	29.3	24.1
Colorado						
September 1998	W	W	–	–	W	W
August 1998	W	–	–	–	W	–
September 1997	W	–	–	–	W	–

See footnotes at end of table.

Table 42. Residual Fuel Oil Prices by PAD District and State

(Cents per Gallon Excluding Taxes) — Continued

Geographic Area Month	Sulfur Less Than or Equal to 1 Percent		Sulfur Greater Than 1 Percent		Average	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
Idaho						
September 1998	–	–	–	–	–	–
August 1998	–	–	–	–	–	–
September 1997	–	–	W	–	W	–
Montana						
September 1998	–	–	W	NA	W	NA
August 1998	–	–	W	W	W	W
September 1997	–	–	W	NA	W	NA
Utah						
September 1998	W	W	–	–	W	W
August 1998	NA	W	–	–	NA	W
September 1997	–	W	W	–	W	W
Wyoming						
September 1998	–	W	W	W	W	20.8
August 1998	–	W	W	W	W	21.3
September 1997	–	W	W	W	W	22.8
PAD District V						
September 1998	33.6	33.5	25.7	27.6	27.4	29.1
August 1998	34.3	26.7	25.7	26.5	27.2	26.5
September 1997	50.0	35.1	40.4	NA	42.7	NA
Alaska						
September 1998	–	–	–	–	–	–
August 1998	–	–	–	–	–	–
September 1997	–	–	–	–	–	–
Arizona						
September 1998	–	W	–	–	–	W
August 1998	–	W	–	–	–	W
September 1997	W	–	–	–	W	–
California						
September 1998	W	33.4	25.3	30.1	25.3	31.4
August 1998	W	26.5	25.9	28.4	25.9	27.4
September 1997	W	33.5	39.3	39.9	39.3	38.0
Hawaii						
September 1998	W	–	31.9	W	33.2	W
August 1998	W	–	34.7	W	34.3	W
September 1997	W	–	46.1	W	48.7	W
Nevada						
September 1998	–	W	–	–	–	W
August 1998	–	W	–	W	–	W
September 1997	–	W	W	–	W	W
Oregon						
September 1998	W	–	26.6	W	27.2	W
August 1998	W	–	26.5	W	27.3	W
September 1997	–	NA	41.8	44.4	41.8	NA
Washington						
September 1998	–	–	24.9	23.5	24.9	23.5
August 1998	W	–	23.8	24.4	23.9	24.4
September 1997	W	NA	39.8	NA	40.5	NA

Dash (–) = No data reported.
NA = Not available.
W = Withheld to avoid disclosure of individual company data.
Notes: Some State data are not sufficient for publication individually, but are used in calculating the PAD District average.
Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual.*
Sources: Energy Information Administration Forms EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report."

Volumes of Petroleum Products

Table 43. Refiner Motor Gasoline Volumes by Grade, Sales Type, PAD District, and State

(Thousand Gallons per Day)

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total[a]	DTW	Rack	Bulk	Total	Through Retail Outlets	Total[a]	DTW	Rack	Bulk	Total
United States												
September 1998	42,788.2	44,310.9	43,819.4	140,814.1	32,644.6	217,278.1	10,373.7	10,553.3	W	16,418.2	W	27,324.9
August 1998	44,053.5	45,591.8	44,747.0	144,334.3	35,881.7	224,963.0	10,569.5	10,737.3	W	16,933.9	W	28,133.7
September 1997	42,896.5	44,648.8	45,146.7	137,380.5	33,864.0	216,391.3	9,988.2	10,236.7	W	16,152.4	W	27,830.0
PAD District I												
September 1998	10,042.7	10,537.3	15,781.4	43,020.8	7,456.6	66,258.7	2,797.5	2,879.3	4,074.8	6,311.4	–	10,386.3
August 1998	10,582.4	11,071.1	16,031.0	44,610.8	7,734.9	68,376.8	2,920.6	2,999.2	4,170.0	6,747.0	–	10,916.9
September 1997	9,947.9	10,536.8	16,153.4	42,307.0	5,268.6	63,729.0	2,693.9	2,786.8	4,500.4	6,655.3	–	11,155.7
Subdistrict IA												
September 1998	473.3	480.8	W	4,508.4	W	7,620.8	135.6	136.2	W	W	–	1,100.0
August 1998	509.0	516.6	W	4,793.4	W	9,074.4	146.9	147.0	627.8	567.7	–	1,195.5
September 1997	455.4	462.8	2,878.7	4,544.6	938.2	8,361.5	130.9	131.3	649.9	551.0	–	1,200.9
Connecticut												
September 1998	W	W	830.8	1,186.9	NA	2,032.1	W	W	W	W	–	328.5
August 1998	W	W	837.0	W	W	2,333.5	W	W	W	W	–	336.3
September 1997	W	W	833.4	1,178.6	291.6	2,303.6	W	W	W	W	–	361.5
Maine												
September 1998	–	–	W	W	–	1,023.1	–	–	W	W	–	111.4
August 1998	–	–	W	1,119.1	W	1,853.7	–	–	W	W	–	140.0
September 1997	–	–	W	1,125.2	W	1,359.8	–	–	W	W	–	134.3
Massachusetts												
September 1998	271.9	274.2	1,478.8	W	W	3,206.3	81.7	82.0	W	W	–	472.0
August 1998	291.9	294.2	1,508.8	1,575.3	427.0	3,511.2	87.4	87.4	322.8	192.7	–	515.5
September 1997	258.2	260.7	1,502.4	W	W	3,424.2	78.1	78.3	335.6	167.2	–	502.8
New Hampshire												
September 1998	64.8	64.8	173.8	138.9	–	312.7	16.2	16.2	35.5	9.7	–	45.2
August 1998	69.5	69.5	179.5	94.8	–	274.3	17.6	17.6	35.8	11.5	–	47.3
September 1997	66.1	66.2	190.5	33.3	–	223.7	16.0	16.0	40.4	4.9	–	45.3
Rhode Island												
September 1998	W	W	273.8	589.1	–	862.9	W	W	56.3	60.9	–	117.2
August 1998	W	W	275.2	624.0	–	899.2	W	W	58.9	69.1	–	128.1
September 1997	W	W	266.4	580.8	–	847.2	W	W	58.2	70.9	–	129.1
Vermont												
September 1998	–	–	W	W	–	183.7	–	–	W	W	–	25.6
August 1998	–	–	W	W	–	202.5	–	–	W	W	–	28.4
September 1997	–	–	W	W	–	203.0	–	–	W	W	–	27.9
Subdistrict IB												
September 1998	3,487.0	3,600.8	W	13,058.7	W	28,837.2	863.1	878.3	W	W	–	3,601.8
August 1998	3,721.2	3,835.9	W	13,757.9	W	28,804.3	912.4	928.3	2,116.1	1,638.3	–	3,754.4
September 1997	3,465.6	3,621.6	9,248.5	12,619.6	4,140.5	26,008.6	851.6	873.5	2,343.1	1,557.9	–	3,901.0
Delaware												
September 1998	21.8	33.0	W	W	–	599.2	6.5	6.6	W	W	–	111.2
August 1998	W	36.9	208.5	404.6	–	613.2	W	8.2	W	W	–	116.4
September 1997	W	27.8	216.6	317.9	–	534.5	W	W	57.6	62.4	–	120.0
District of Columbia												
September 1998	–	W	110.6	–	–	110.6	–	W	NA	–	–	NA
August 1998	–	5.8	109.1	–	–	109.1	–	W	NA	–	–	NA
September 1997	–	7.9	127.0	–	–	127.0	–	W	79.4	–	–	79.4
Maryland												
September 1998	–	W	1,621.9	1,421.3	–	3,043.2	–	W	522.8	266.5	–	789.3
August 1998	W	32.0	W	1,540.6	W	3,141.4	W	W	504.9	295.1	–	800.0
September 1997	W	32.6	1,725.9	1,550.5	–	3,276.4	W	5.4	W	W	–	897.7
New Jersey												
September 1998	798.8	817.4	2,492.1	2,249.8	5,368.7	10,110.6	205.8	209.1	544.9	325.4	–	870.3
August 1998	875.4	894.1	2,559.2	2,447.4	4,634.8	9,641.4	223.7	226.9	555.3	354.1	–	909.4
September 1997	792.2	828.7	2,521.4	2,110.8	3,002.7	7,634.9	203.9	210.6	608.8	290.7	–	899.5
New York												
September 1998	1,352.0	1,381.5	2,676.0	4,124.1	NA	7,095.7	252.0	256.8	586.4	257.1	–	843.5
August 1998	1,442.4	1,470.8	2,784.8	4,280.2	NA	7,383.6	264.6	269.8	610.3	292.7	–	903.1
September 1997	1,298.3	1,337.5	2,730.6	4,092.5	272.6	7,095.7	246.9	252.8	643.4	265.6	–	909.0
Pennsylvania												
September 1998	1,314.3	1,335.6	1,939.2	W	W	7,877.9	398.7	399.1	325.8	592.0	–	917.8
August 1998	1,375.0	1,396.3	1,941.8	5,085.1	888.7	7,915.6	415.3	415.9	W	W	–	956.6
September 1997	1,350.4	1,387.2	1,927.0	4,547.9	865.2	7,340.2	393.4	395.9	W	W	–	995.3

See footnotes at end of table.

Table 43. Refiner Motor Gasoline Volumes by Grade, Sales Type, PAD District, and State

(Thousand Gallons per Day) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total[a]	DTW	Rack	Bulk	Total	Through Retail Outlets	Total[a]	DTW	Rack	Bulk	Total
United States												
September 1998	9,987.9	10,293.0	W	32,119.7	W	54,517.8	63,149.8	65,157.2	72,291.5	189,352.0	37,477.4	299,120.9
August 1998	10,223.3	10,522.5	W	32,964.5	W	55,277.1	64,846.2	66,851.6	73,771.1	194,232.8	40,370.0	308,373.8
September 1997	8,449.8	8,917.9	W	27,152.0	W	46,595.5	61,334.5	63,803.4	72,455.6	180,685.0	37,676.2	290,816.8
PAD District I												
September 1998	3,414.6	3,525.0	8,932.0	12,744.0	1,405.5	23,081.5	16,254.8	16,941.6	28,788.3	62,076.2	8,862.1	99,726.5
August 1998	3,553.7	3,663.8	9,005.8	13,245.0	1,056.4	23,307.3	17,056.7	17,734.1	29,206.8	64,602.8	8,791.4	102,601.0
September 1997	2,762.5	2,883.2	8,103.4	10,926.8	1,754.6	20,784.8	15,404.3	16,206.8	28,757.2	59,889.1	7,023.2	95,669.5
Subdistrict IA												
September 1998	166.0	166.1	997.3	W	W	2,227.3	774.9	783.0	W	6,116.4	W	10,948.1
August 1998	176.3	176.3	W	1,209.4	W	2,506.2	832.2	839.9	4,538.1	6,570.5	1,667.5	12,776.1
September 1997	130.7	130.9	870.6	970.2	231.3	2,072.1	717.0	724.9	4,399.2	6,065.9	1,169.5	11,634.6
Connecticut												
September 1998	W	W	326.2	W	W	754.8	W	W	W	1,660.7	W	3,115.5
August 1998	W	W	W	W	W	776.8	W	W	1,353.1	W	W	3,446.6
September 1997	W	W	W	280.4	W	677.6	W	W	1,303.7	W	W	3,342.7
Maine												
September 1998	–	–	W	W	–	199.3	–	–	W	W	–	1,333.9
August 1998	–	–	W	W	W	301.4	–	–	W	1,473.4	W	2,295.1
September 1997	–	–	W	W	–	193.8	–	–	W	1,436.1	W	1,688.0
Massachusetts												
September 1998	94.5	94.5	W	385.2	W	920.7	448.0	450.6	2,303.1	W	W	4,599.1
August 1998	100.4	100.4	534.4	423.4	90.2	1,048.0	479.6	481.9	2,366.1	2,191.4	517.2	5,074.7
September 1997	72.7	72.7	459.8	W	W	896.3	408.9	411.7	2,297.8	1,960.4	565.1	4,823.3
New Hampshire												
September 1998	19.0	19.0	45.8	17.7	–	63.5	100.0	100.0	255.1	166.3	–	421.4
August 1998	21.0	21.0	47.3	16.5	–	63.8	108.1	108.1	262.7	122.7	–	385.5
September 1997	16.1	16.1	43.4	5.0	–	48.4	98.2	98.3	274.3	43.1	–	317.5
Rhode Island												
September 1998	W	W	89.8	157.7	–	247.5	W	W	420.0	807.6	–	1,227.6
August 1998	W	W	92.5	177.5	–	270.0	W	W	426.7	870.6	–	1,297.3
September 1997	W	W	77.5	141.1	–	218.5	W	W	402.1	792.7	–	1,194.8
Vermont												
September 1998	–	–	W	W	–	41.4	–	–	W	W	–	250.7
August 1998	–	–	W	W	–	46.1	–	–	W	W	–	276.9
September 1997	–	–	W	W	–	37.4	–	–	W	W	–	268.3
Subdistrict IB												
September 1998	1,164.3	1,184.4	5,428.4	W	W	10,193.1	5,514.3	5,663.6	W	18,163.2	W	42,632.1
August 1998	1,233.4	1,254.3	W	3,828.5	W	10,022.5	5,866.9	6,018.5	16,727.7	19,224.7	6,628.7	42,581.2
September 1997	988.3	1,017.7	4,941.8	3,069.3	1,397.3	9,408.3	5,305.5	5,512.8	16,533.4	17,246.8	5,537.8	39,317.9
Delaware												
September 1998	6.7	8.1	59.8	94.2	–	154.1	35.0	47.6	W	W	–	864.4
August 1998	W	9.8	W	W	–	162.6	W	54.9	W	W	–	892.2
September 1997	W	W	57.3	72.5	–	129.9	W	41.0	331.6	452.8	–	784.4
District of Columbia												
September 1998	–	W	NA	–	–	NA	–	W	335.4	–	–	335.4
August 1998	–	W	W	W	–	NA	–	9.2	W	W	–	NA
September 1997	–	W	148.8	–	–	148.8	–	11.4	355.1	–	–	355.1
Maryland												
September 1998	–	W	844.6	W	W	1,331.1	–	W	2,989.3	W	W	5,163.6
August 1998	W	W	809.9	480.8	–	1,290.7	W	45.3	W	2,316.5	W	5,232.1
September 1997	W	6.5	W	W	W	1,215.0	W	44.5	3,100.4	W	W	5,389.1
New Jersey												
September 1998	373.6	379.1	1,585.3	871.3	716.5	3,173.2	1,378.2	1,405.6	4,622.3	3,446.6	6,085.2	14,154.0
August 1998	406.4	411.6	1,601.2	965.5	433.4	3,000.1	1,505.5	1,532.7	4,715.6	3,767.1	5,068.2	13,550.9
September 1997	321.8	334.7	1,452.5	745.3	1,027.5	3,225.3	1,317.9	1,373.9	4,582.7	3,146.8	4,030.2	11,759.7
New York												
September 1998	416.3	420.2	2,074.7	1,024.1	160.7	3,259.5	2,020.3	2,058.5	5,337.2	5,405.3	456.3	11,198.7
August 1998	439.8	444.1	2,108.2	1,090.9	81.4	3,280.4	2,146.8	2,184.7	5,503.3	5,663.8	400.0	11,567.1
September 1997	347.5	352.3	1,853.0	867.2	84.8	2,804.9	1,892.7	1,942.6	5,227.0	5,225.3	357.4	10,809.6
Pennsylvania												
September 1998	367.8	369.1	708.9	W	W	2,120.2	2,080.8	2,103.8	2,973.8	6,618.9	1,323.2	10,916.0
August 1998	378.2	379.6	711.6	W	W	2,137.9	2,168.5	2,191.7	W	6,897.8	W	11,010.2
September 1997	313.2	316.1	W	W	W	1,884.5	2,057.0	2,099.3	2,936.6	W	W	10,220.0

See footnotes at end of table.

Table 43. Refiner Motor Gasoline Volumes by Grade, Sales Type, PAD District, and State

(Thousand Gallons per Day) — Continued

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total[a]	DTW	Rack	Bulk	Total	Through Retail Outlets	Total[a]	DTW	Rack	Bulk	Total
Subdistrict IC												
September 1998	6,082.5	6,455.7	3,892.0	25,453.7	NA	29,800.7	1,798.8	1,864.9	1,376.2	4,308.3	–	5,684.4
August 1998	6,352.2	6,718.6	W	26,059.5	W	30,498.1	1,861.4	1,923.9	1,426.1	4,541.0	–	5,967.1
September 1997	6,026.9	6,452.5	4,026.2	25,142.7	189.9	29,358.8	1,711.4	1,782.0	1,507.4	4,546.4	–	6,053.8
Florida												
September 1998	2,673.1	2,794.9	W	5,939.6	W	8,191.7	799.7	825.2	767.7	1,129.7	–	1,897.4
August 1998	2,791.6	2,904.6	2,175.0	W	W	8,321.6	832.3	855.7	W	W	–	1,971.0
September 1997	2,669.4	2,809.4	W	W	–	8,217.1	776.3	803.9	W	W	–	2,032.9
Georgia												
September 1998	1,235.6	1,302.7	W	5,403.7	W	5,927.0	400.4	419.7	W	W	–	940.8
August 1998	1,293.3	1,363.1	501.1	5,583.1	–	6,084.1	412.3	432.8	217.1	772.4	–	989.5
September 1997	1,188.5	1,269.6	W	5,492.2	W	6,042.8	357.7	376.6	W	W	–	970.9
North Carolina												
September 1998	514.8	611.5	W	W	–	6,507.7	154.9	158.2	W	W	–	1,205.7
August 1998	541.5	635.6	W	W	–	6,588.1	159.7	163.3	W	W	–	1,244.2
September 1997	524.8	630.4	73.5	6,235.8	–	6,309.3	148.6	153.7	27.6	1,314.0	–	1,341.6
South Carolina												
September 1998	556.8	597.0	W	W	–	3,202.9	151.1	158.8	W	W	–	492.8
August 1998	598.9	639.6	W	3,122.4	W	3,263.2	157.4	164.8	W	W	–	541.3
September 1997	592.0	628.4	W	W	–	2,919.9	146.4	149.4	W	W	–	494.2
Virginia												
September 1998	673.0	711.7	1,123.7	W	W	5,635.4	186.8	195.1	W	W	–	1,089.3
August 1998	691.9	731.7	1,127.9	W	W	5,860.7	191.6	197.2	367.6	785.8	–	1,153.5
September 1997	645.5	695.9	1,146.9	W	W	5,406.5	178.7	191.8	406.8	738.5	–	1,145.3
West Virginia												
September 1998	429.2	437.8	W	W	–	336.0	105.8	107.9	W	W	–	58.3
August 1998	435.0	443.9	W	W	–	380.3	108.1	110.0	W	W	–	67.7
September 1997	406.7	418.8	142.4	320.7	–	463.2	103.7	106.6	W	W	–	68.9
PAD District II												
September 1998	14,181.9	14,648.6	7,046.9	52,508.2	5,734.0	65,289.0	2,925.9	2,962.9	1,847.3	4,680.1	–	6,527.4
August 1998	15,094.6	15,570.9	7,167.7	53,274.3	5,643.5	66,085.5	3,038.9	3,073.4	1,910.2	4,713.9	–	6,624.1
September 1997	15,092.8	15,577.5	9,743.1	50,869.3	6,780.9	67,393.3	2,969.5	3,007.9	2,199.2	3,863.5	–	6,062.6
Illinois												
September 1998	2,135.7	2,149.1	W	5,129.7	W	7,995.2	512.1	512.7	567.1	527.0	–	1,094.1
August 1998	2,251.2	2,266.2	W	5,237.4	W	8,507.7	527.6	528.5	579.0	557.5	–	1,136.5
September 1997	2,214.3	2,234.9	1,765.2	4,957.0	1,136.4	7,858.7	495.0	495.3	612.4	421.5	–	1,033.9
Indiana												
September 1998	1,178.4	1,195.9	W	4,083.5	W	5,025.3	253.2	253.6	149.0	480.8	–	629.8
August 1998	1,310.0	1,333.3	W	4,173.2	W	5,140.6	269.5	270.0	155.5	476.1	–	631.5
September 1997	1,197.4	1,215.3	W	3,323.4	W	5,069.4	251.3	251.7	196.8	427.6	–	624.4
Iowa												
September 1998	W	W	W	W	–	3,106.6	W	W	W	W	–	NA
August 1998	W	136.9	NA	3,000.6	–	3,068.8	W	W	NA	325.8	–	347.9
September 1997	189.6	193.3	W	W	–	3,127.7	5.1	5.2	W	W	–	252.6
Kansas												
September 1998	452.1	465.9	NA	W	W	3,128.0	50.8	51.1	W	W	–	NA
August 1998	465.6	479.4	NA	W	W	3,161.7	51.5	51.5	W	W	–	70.5
September 1997	481.5	496.9	W	2,584.1	W	3,378.5	48.7	48.7	W	W	–	50.7
Kentucky												
September 1998	549.6	594.0	W	3,013.9	W	3,198.7	130.1	133.4	W	W	–	429.8
August 1998	592.9	635.2	126.5	W	W	3,231.2	137.1	140.3	W	W	–	449.5
September 1997	557.2	595.0	W	2,767.5	W	3,247.8	133.9	136.4	W	W	–	406.3
Michigan												
September 1998	2,353.6	2,468.5	1,646.8	5,721.3	–	7,368.1	368.6	372.0	378.7	297.3	–	675.9
August 1998	2,548.4	2,661.6	1,641.8	5,885.0	–	7,526.8	378.8	381.1	385.1	325.8	–	710.9
September 1997	2,521.7	2,632.7	2,468.9	5,479.1	–	7,948.1	358.3	361.6	457.4	253.4	–	710.8
Minnesota												
September 1998	841.5	850.3	W	3,347.7	W	3,993.4	148.8	148.8	W	W	–	614.5
August 1998	889.5	903.2	W	3,431.4	W	4,085.8	159.0	159.0	W	W	–	585.5
September 1997	911.2	929.5	W	3,913.9	W	4,458.1	130.3	130.6	W	W	–	284.7
Missouri												
September 1998	631.6	648.1	322.9	3,993.1	–	4,316.1	122.0	122.6	NA	109.4	–	204.1
August 1998	660.1	675.1	331.3	4,156.7	–	4,488.0	126.3	126.8	NA	106.2	–	202.7
September 1997	734.0	751.6	424.8	3,847.9	–	4,272.8	121.8	122.1	112.4	67.6	–	180.0

See footnotes at end of table.

Table 43. Refiner Motor Gasoline Volumes by Grade, Sales Type, PAD District, and State

(Thousand Gallons per Day) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total[a]	DTW	Rack	Bulk	Total	Through Retail Outlets	Total[a]	DTW	Rack	Bulk	Total
Subdistrict IC												
September 1998	2,084.4	2,174.5	2,506.4	8,034.5	120.2	10,661.1	9,965.6	10,495.1	7,774.5	37,796.5	575.2	46,146.3
August 1998	2,144.1	2,233.2	W	8,207.1	W	10,778.5	10,357.6	10,875.6	7,941.0	38,807.5	NA	47,243.7
September 1997	1,643.5	1,734.6	2,291.0	6,887.3	126.0	9,304.3	9,381.7	9,969.1	7,824.7	36,576.4	315.9	44,717.0
Florida												
September 1998	1,097.2	1,122.2	W	1,902.2	W	3,470.2	4,570.0	4,742.3	4,392.0	8,971.5	195.8	13,559.4
August 1998	1,128.4	1,151.1	1,553.8	1,973.0	–	3,526.8	4,752.3	4,911.4	W	9,128.8	W	13,819.5
September 1997	868.2	896.3	W	1,727.0	W	3,175.8	4,313.9	4,509.6	W	9,068.7	W	13,425.8
Georgia												
September 1998	400.8	424.2	W	W	–	1,912.9	2,036.8	2,146.6	W	7,776.9	W	8,780.6
August 1998	411.4	435.5	NA	1,670.5	–	1,944.9	2,117.0	2,231.5	992.6	8,025.9	–	9,018.5
September 1997	298.6	320.4	W	W	–	1,709.5	1,844.9	1,966.6	W	7,695.0	W	8,723.3
North Carolina												
September 1998	153.4	170.4	W	W	–	2,166.2	823.1	940.0	W	W	–	9,879.6
August 1998	159.4	177.2	W	W	–	2,154.6	860.6	976.1	W	W	–	9,986.8
September 1997	124.7	142.2	29.5	1,780.1	–	1,809.6	798.0	926.3	130.5	9,330.0	–	9,460.5
South Carolina												
September 1998	136.4	148.6	W	W	–	949.7	844.3	904.4	W	W	–	4,645.4
August 1998	143.6	155.4	W	W	–	964.4	899.8	959.8	W	4,576.6	W	4,768.9
September 1997	116.8	126.4	W	W	–	755.9	855.3	904.3	W	W	–	4,170.0
Virginia												
September 1998	230.6	241.5	W	1,344.5	W	2,080.8	1,090.5	1,148.3	W	6,302.7	W	8,805.5
August 1998	234.0	245.1	664.4	W	W	2,096.5	1,117.5	1,174.1	2,159.9	6,651.8	NA	9,110.7
September 1997	178.4	189.6	602.6	W	W	1,767.2	1,002.6	1,077.3	2,156.3	5,951.9	210.9	8,319.1
West Virginia												
September 1998	65.9	67.7	W	W	–	81.4	600.8	613.4	W	W	–	475.7
August 1998	67.3	68.8	W	W	–	91.3	610.4	622.7	W	W	–	539.3
September 1997	56.7	59.6	10.3	76.0	–	86.3	567.1	585.0	W	W	–	618.4
PAD District II												
September 1998	2,457.8	2,532.5	2,153.5	9,243.5	337.1	11,734.1	19,565.5	20,144.1	11,047.7	66,431.8	6,071.1	83,550.6
August 1998	2,578.9	2,650.2	2,201.5	9,437.9	381.2	12,020.5	20,712.4	21,294.4	11,279.4	67,426.0	6,024.7	84,730.1
September 1997	2,326.4	2,383.9	2,435.8	7,547.8	235.8	10,219.3	20,388.7	20,969.2	14,378.0	62,280.5	7,016.7	83,675.2
Illinois												
September 1998	480.4	485.6	W	866.4	W	1,593.2	3,128.3	3,147.5	2,722.2	6,523.2	1,437.2	10,682.6
August 1998	502.6	506.8	W	930.8	W	1,701.7	3,281.4	3,301.5	2,776.2	6,725.7	1,844.1	11,345.9
September 1997	465.3	468.5	715.5	764.4	–	1,479.9	3,174.6	3,198.7	3,093.1	6,143.0	1,136.4	10,372.5
Indiana												
September 1998	204.5	204.7	W	806.0	W	1,033.1	1,636.1	1,654.3	941.3	5,370.3	376.6	6,688.2
August 1998	223.2	223.3	W	813.4	W	1,050.9	1,802.7	1,826.5	972.2	5,462.6	388.2	6,823.1
September 1997	221.7	221.9	W	573.8	W	851.7	1,670.4	1,688.9	1,495.4	4,324.7	725.3	6,545.4
Iowa												
September 1998	13.2	13.4	W	W	–	237.5	143.2	145.2	NA	3,609.2	–	3,709.8
August 1998	13.9	W	NA	238.6	–	253.3	154.3	157.1	NA	3,565.0	–	3,670.0
September 1997	16.3	16.4	W	W	–	244.0	211.0	214.9	W	W	–	3,624.3
Kansas												
September 1998	59.2	60.5	NA	W	W	354.6	562.2	577.6	W	2,816.9	W	3,551.1
August 1998	60.6	61.9	NA	W	W	418.9	577.6	592.7	W	2,779.1	W	3,651.1
September 1997	50.8	51.4	W	W	W	268.0	581.0	597.0	W	2,845.9	W	3,697.2
Kentucky												
September 1998	103.0	110.4	W	W	–	804.0	782.6	837.8	W	4,182.6	W	4,432.4
August 1998	109.4	115.6	W	W	–	780.5	839.4	891.1	W	4,179.2	W	4,461.3
September 1997	94.8	99.4	W	W	–	699.8	785.9	830.8	W	3,742.7	W	4,353.8
Michigan												
September 1998	285.0	308.4	415.4	1,013.3	–	1,428.7	3,007.2	3,148.8	2,440.9	7,031.8	–	9,472.7
August 1998	303.3	326.1	411.6	1,047.0	–	1,458.6	3,230.5	3,368.8	2,438.5	7,257.9	–	9,696.4
September 1997	273.6	292.6	476.0	822.9	–	1,299.0	3,153.7	3,286.9	3,402.4	6,555.5	–	9,957.9
Minnesota												
September 1998	101.8	102.0	W	W	W	553.9	1,092.1	1,101.1	W	4,322.5	W	5,161.8
August 1998	110.2	110.4	W	W	W	609.3	1,158.7	1,172.6	W	4,421.8	W	5,280.6
September 1997	90.8	90.9	W	W	W	404.2	1,132.3	1,151.1	W	4,480.6	W	5,147.1
Missouri												
September 1998	99.7	100.2	93.2	613.1	–	706.3	853.3	871.0	510.8	4,715.7	–	5,226.5
August 1998	104.0	104.5	94.6	641.6	–	736.2	890.5	906.4	522.3	4,904.6	–	5,426.9
September 1997	92.9	95.0	103.9	488.7	–	592.6	948.7	968.7	641.1	4,404.2	–	5,045.4

See footnotes at end of table.

Table 43. Refiner Motor Gasoline Volumes by Grade, Sales Type, PAD District, and State

(Thousand Gallons per Day) — Continued

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total[a]	DTW	Rack	Bulk	Total	Through Retail Outlets	Total[a]	DTW	Rack	Bulk	Total
Nebraska												
September 1998	50.8	52.7	NA	1,670.1	–	1,760.9	W	W	NA	NA	–	NA
August 1998	54.2	55.7	NA	1,624.0	–	1,721.3	W	W	NA	86.1	–	102.9
September 1997	106.8	108.2	113.1	1,693.5	–	1,806.5	W	W	W	W	–	79.9
North Dakota												
September 1998	W	W	NA	NA	–	NA	W	W	NA	NA	–	NA
August 1998	W	3.1	NA	857.2	–	904.2	W	W	NA	33.6	–	NA
September 1997	W	W	W	W	–	949.1	–	–	W	W	–	W
Ohio												
September 1998	3,655.5	3,822.6	1,700.6	W	W	6,903.0	866.6	894.5	W	W	–	841.5
August 1998	3,854.8	4,019.4	1,759.1	W	W	7,329.0	913.5	940.1	W	W	–	876.0
September 1997	3,829.7	4,024.3	W	4,510.3	W	7,282.6	893.1	922.8	W	W	–	879.0
Oklahoma												
September 1998	645.7	672.6	W	W	3,022.6	5,763.0	119.9	119.9	W	W	–	44.4
August 1998	674.4	703.4	W	W	2,085.4	4,809.8	122.8	122.9	W	W	–	45.3
September 1997	728.4	742.5	W	2,898.4	W	6,324.1	122.8	122.9	W	W	–	59.9
South Dakota												
September 1998	7.8	8.6	24.8	950.5	–	975.3	W	W	NA	NA	–	NA
August 1998	8.2	9.6	29.6	1,011.1	–	1,040.7	W	W	NA	60.6	–	68.5
September 1997	W	W	27.2	998.6	–	1,025.8	W	W	W	30.8	–	W
Tennessee												
September 1998	974.7	1,005.1	116.7	5,615.7	–	5,732.4	260.9	261.4	61.4	973.0	–	1,034.4
August 1998	1,022.8	1,055.9	120.8	5,696.2	–	5,817.0	252.1	252.4	64.1	963.7	–	1,027.8
September 1997	976.7	1,001.0	269.8	5,395.8	–	5,665.6	331.8	333.1	100.9	1,018.1	–	1,119.1
Wisconsin												
September 1998	578.0	586.3	W	4,832.6	W	5,110.2	81.0	81.1	W	W	–	312.5
August 1998	625.9	633.0	W	4,970.3	W	5,252.7	88.4	88.4	W	W	–	322.8
September 1997	626.4	633.0	372.8	W	W	4,978.6	75.3	75.4	W	W	–	316.8
PAD District III												
September 1998	6,405.5	6,595.4	1,668.1	27,583.0	14,084.8	43,335.9	1,713.5	1,733.2	488.6	3,505.3	–	3,993.9
August 1998	6,642.3	6,902.1	1,747.1	27,900.8	17,505.1	47,153.0	1,753.0	1,770.2	511.2	3,444.2	–	3,955.3
September 1997	6,555.5	6,901.6	1,772.8	27,047.1	16,578.0	45,397.9	1,706.8	1,727.9	552.4	3,755.3	–	4,307.7
Alabama												
September 1998	242.5	269.8	77.0	3,545.6	–	3,622.6	71.4	76.3	28.0	570.7	–	598.7
August 1998	254.1	284.2	80.0	3,501.1	–	3,581.1	73.9	79.8	28.0	496.5	–	524.6
September 1997	260.7	287.5	83.2	3,460.3	–	3,543.5	81.5	89.1	32.2	649.8	–	682.0
Arkansas												
September 1998	168.1	170.9	W	2,582.5	W	2,738.2	33.4	33.4	W	W	–	321.5
August 1998	164.9	167.1	W	2,582.2	W	2,742.2	33.4	33.4	W	W	–	324.2
September 1997	200.1	202.7	W	2,610.0	W	2,955.5	44.3	44.6	W	W	–	323.1
Louisiana												
September 1998	685.5	701.6	204.8	2,898.8	1,143.6	4,247.2	216.5	216.9	84.1	506.3	–	590.4
August 1998	712.0	729.1	215.4	W	W	4,814.3	216.6	216.6	88.6	461.3	–	549.9
September 1997	718.1	723.0	W	2,772.1	W	3,924.1	217.0	217.0	96.1	509.9	–	606.0
Mississippi												
September 1998	93.8	108.9	4.8	W	W	3,299.5	24.3	27.3	W	W	–	333.5
August 1998	100.5	114.9	4.6	2,433.8	827.3	3,265.7	24.2	27.1	W	W	–	351.7
September 1997	86.1	108.5	7.4	W	W	3,027.2	21.3	25.3	W	W	–	361.4
New Mexico												
September 1998	436.9	441.1	W	W	–	1,458.4	86.9	86.9	W	W	–	100.3
August 1998	449.7	454.0	W	W	–	1,514.7	89.8	89.8	W	W	–	104.3
September 1997	439.1	445.5	W	W	–	1,610.8	84.3	84.4	W	W	–	155.8
Texas												
September 1998	4,778.8	4,903.1	1,253.7	14,886.2	11,830.2	27,970.1	1,281.0	1,292.5	363.5	1,686.0	–	2,049.5
August 1998	4,961.1	5,152.7	1,309.5	15,030.3	14,895.2	31,235.0	1,315.1	1,323.4	377.5	1,723.1	–	2,100.6
September 1997	4,851.4	5,134.3	1,332.1	14,322.9	14,681.8	30,336.9	1,258.3	1,267.5	404.6	1,774.9	–	2,179.4
PAD District IV												
September 1998	1,824.3	1,939.4	814.3	5,671.7	–	6,485.9	627.3	636.1	W	W	–	821.3
August 1998	1,946.2	2,053.3	760.4	6,176.1	–	6,936.5	647.3	656.3	W	W	–	855.4
September 1997	1,733.8	1,836.9	W	6,042.1	W	6,783.9	597.5	619.9	176.8	672.3	–	849.1
Colorado												
September 1998	1,257.4	1,261.7	NA	1,962.9	–	2,110.6	460.6	460.8	NA	303.2	–	367.7
August 1998	1,339.6	1,343.4	NA	2,064.3	–	2,203.2	474.1	474.4	NA	317.1	–	381.7
September 1997	1,271.1	1,272.5	W	2,035.5	W	2,228.9	429.3	429.3	W	W	–	353.1

See footnotes at end of table.

Table 43. Refiner Motor Gasoline Volumes by Grade, Sales Type, PAD District, and State

(Thousand Gallons per Day) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total[a]	DTW	Rack	Bulk	Total	Through Retail Outlets	Total[a]	DTW	Rack	Bulk	Total
Nebraska												
September 1998	W	W	NA	127.3	–	145.2	58.7	60.7	NA	1,884.7	–	2,009.5
August 1998	W	W	NA	134.5	–	154.2	62.4	63.9	NA	1,844.6	–	1,978.3
September 1997	W	W	W	W	–	130.7	118.1	119.4	154.9	1,862.2	–	2,017.1
North Dakota												
September 1998	W	W	NA	53.2	–	NA	W	W	NA	NA	–	NA
August 1998	W	W	NA	51.7	–	59.1	W	3.6	NA	942.5	–	1,008.9
September 1997	W	W	W	40.9	–	W	W	3.6	W	W	–	1,028.3
Ohio												
September 1998	565.7	591.6	416.1	936.8	–	1,352.9	5,087.8	5,308.7	W	6,473.1	W	9,097.4
August 1998	602.4	626.8	438.1	953.2	–	1,391.3	5,370.7	5,586.3	W	6,526.9	W	9,596.3
September 1997	552.0	573.7	506.6	W	W	1,335.7	5,274.8	5,520.8	W	5,689.9	W	9,497.2
Oklahoma												
September 1998	125.4	130.9	W	556.9	W	751.0	891.0	923.4	W	3,290.9	W	6,558.4
August 1998	127.4	132.9	W	538.7	W	654.8	924.6	959.2	W	3,253.9	W	5,510.0
September 1997	107.6	108.2	W	451.1	W	545.4	958.8	973.6	W	W	3,456.6	6,929.3
South Dakota												
September 1998	0.8	0.8	NA	70.7	–	75.4	W	W	NA	1,079.8	–	1,116.9
August 1998	0.8	W	5.4	90.5	–	95.9	W	15.2	42.8	1,162.3	–	1,205.1
September 1997	W	W	W	62.2	–	W	W	16.6	38.0	1,091.5	–	1,129.6
Tennessee												
September 1998	343.0	347.0	66.3	1,875.3	–	1,941.6	1,578.6	1,613.5	244.3	8,464.0	–	8,708.4
August 1998	339.7	345.0	68.1	1,832.6	–	1,900.7	1,614.6	1,653.3	253.0	8,492.5	–	8,745.5
September 1997	281.8	287.2	107.5	1,535.9	–	1,643.4	1,590.3	1,621.2	478.3	7,949.9	–	8,428.1
Wisconsin												
September 1998	69.2	70.0	W	W	–	696.4	728.2	737.4	W	5,715.8	W	6,119.0
August 1998	74.2	74.7	W	W	W	755.2	788.5	796.1	W	5,907.4	W	6,330.7
September 1997	68.5	68.6	69.3	537.2	–	606.6	770.2	777.0	W	5,372.6	W	5,901.9
PAD District III												
September 1998	1,672.2	1,732.0	702.0	6,692.1	2,242.9	9,637.1	9,791.2	10,060.6	2,858.7	37,780.5	16,327.7	56,966.9
August 1998	1,702.3	1,758.0	725.6	6,635.0	2,020.5	9,381.2	10,097.5	10,430.4	2,983.8	37,980.0	19,525.6	60,489.5
September 1997	1,425.7	1,453.7	686.3	5,667.6	1,205.7	7,559.6	9,687.9	10,083.2	3,011.5	36,469.9	17,783.8	57,265.2
Alabama												
September 1998	66.2	75.5	34.7	1,178.5	–	1,213.2	380.1	421.6	139.6	5,294.8	–	5,434.4
August 1998	67.2	75.6	34.5	1,157.2	–	1,191.7	395.2	439.7	142.6	5,154.8	–	5,297.4
September 1997	63.3	71.5	35.7	1,000.3	–	1,036.0	405.5	448.1	151.1	5,110.4	–	5,261.5
Arkansas												
September 1998	32.8	33.3	W	W	W	804.2	234.3	237.6	W	3,525.9	W	3,863.9
August 1998	31.5	31.5	W	W	W	731.4	229.7	231.9	W	3,517.3	W	3,797.9
September 1997	32.0	32.0	W	W	W	657.6	276.4	279.3	W	3,471.8	W	3,936.2
Louisiana												
September 1998	192.8	196.3	147.0	868.2	815.7	1,830.8	1,094.7	1,114.7	435.8	4,273.3	1,959.2	6,668.3
August 1998	198.4	202.1	152.2	W	W	1,488.3	1,127.0	1,147.8	456.2	4,308.6	2,087.6	6,852.4
September 1997	179.0	179.5	W	797.6	W	1,239.6	1,114.1	1,119.5	484.8	4,079.6	1,205.4	5,769.7
Mississippi												
September 1998	20.9	23.8	W	673.9	W	742.5	139.0	160.0	8.2	W	W	4,375.5
August 1998	21.4	24.8	W	693.1	W	790.9	146.0	166.8	8.0	W	W	4,408.4
September 1997	15.4	20.2	W	W	–	606.9	122.8	154.1	12.0	W	W	3,995.5
New Mexico												
September 1998	58.8	59.1	W	W	–	276.3	582.6	587.1	W	W	–	1,835.0
August 1998	60.8	61.1	W	W	–	288.7	600.3	605.0	W	W	–	1,907.7
September 1997	55.1	56.1	W	W	–	253.7	578.5	586.0	W	W	–	2,020.3
Texas												
September 1998	1,300.6	1,344.0	497.0	3,087.6	1,185.5	4,770.1	7,360.4	7,539.6	2,114.2	19,659.9	13,015.7	34,789.7
August 1998	1,323.1	1,363.0	511.5	3,002.9	1,375.7	4,890.1	7,599.3	7,839.1	2,198.5	19,756.3	16,270.9	38,225.7
September 1997	1,080.9	1,094.5	473.8	2,478.3	813.7	3,765.7	7,190.6	7,496.2	2,210.4	18,576.1	15,495.5	36,282.0
PAD District IV												
September 1998	408.2	433.8	W	W	–	1,555.3	2,859.8	3,009.2	1,181.0	7,681.6	–	8,862.6
August 1998	425.3	454.3	W	W	–	1,676.4	3,018.8	3,163.9	1,131.1	8,337.2	–	9,468.3
September 1997	348.5	358.5	W	1,339.4	W	1,515.4	2,679.8	2,815.3	W	8,053.7	W	9,148.5
Colorado												
September 1998	300.7	300.7	NA	450.7	–	503.6	2,018.7	2,023.2	NA	2,716.8	–	2,981.9
August 1998	310.6	311.8	NA	456.4	–	509.9	2,124.3	2,129.5	NA	2,837.8	–	3,094.7
September 1997	250.7	250.8	W	W	W	437.2	1,951.2	1,952.6	W	2,697.6	W	3,019.2

See footnotes at end of table.

Table 43. Refiner Motor Gasoline Volumes by Grade, Sales Type, PAD District, and State

(Thousand Gallons per Day) — Continued

Geographic Area Month	Regular						Midgrade					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total[a]	DTW	Rack	Bulk	Total	Through Retail Outlets	Total[a]	DTW	Rack	Bulk	Total
Idaho												
September 1998	97.6	114.0	192.6	932.3	–	1,124.9	11.8	12.4	W	W	–	129.9
August 1998	104.9	120.3	193.8	1,032.6	–	1,226.4	12.7	13.3	W	W	–	141.7
September 1997	100.0	113.0	159.0	862.5	–	1,021.6	12.0	13.6	W	W	–	127.0
Montana												
September 1998	W	14.8	W	W	–	1,103.4	W	W	–	41.1	–	41.1
August 1998	W	16.7	–	1,244.3	–	1,244.3	W	W	–	W	–	W
September 1997	W	15.7	W	W	–	1,394.0	W	W	–	W	–	55.7
Utah												
September 1998	415.7	506.1	464.6	1,103.9	–	1,568.5	145.0	152.9	W	W	–	276.0
August 1998	439.5	525.3	W	W	–	1,623.4	148.6	156.6	W	W	–	283.8
September 1997	307.9	390.6	374.3	1,204.7	–	1,579.1	146.6	167.5	72.2	233.9	–	306.1
Wyoming												
September 1998	W	42.8	W	W	–	578.5	W	W	–	6.5	–	6.5
August 1998	W	47.7	W	W	–	639.2	W	W	–	W	–	W
September 1997	W	45.0	W	W	–	560.4	W	W	–	W	–	7.3
PAD District V												
September 1998	10,333.7	10,590.2	18,508.7	12,030.4	5,369.3	35,908.5	2,309.6	2,341.7	4,314.2	W	W	5,596.1
August 1998	9,788.1	9,994.4	19,040.8	12,372.4	4,998.2	36,411.4	2,209.6	2,238.2	4,429.0	W	W	5,782.0
September 1997	9,566.6	9,796.1	W	11,115.1	W	33,087.2	2,020.6	2,094.3	W	1,206.1	W	5,454.9
Alaska												
September 1998	235.4	257.4	W	369.1	W	472.2	18.9	18.9	W	W	–	9.6
August 1998	249.4	256.1	W	402.6	W	525.5	18.9	18.9	W	W	–	10.6
September 1997	206.3	222.1	W	W	–	436.0	W	W	W	W	–	W
Arizona												
September 1998	2,059.2	2,071.8	W	1,060.1	W	2,507.0	361.5	361.5	168.5	83.7	–	252.2
August 1998	1,964.6	1,974.4	W	1,024.7	W	2,405.1	348.9	349.2	171.5	82.3	–	253.8
September 1997	1,843.3	1,853.1	1,062.7	741.0	146.0	1,949.7	292.9	293.2	180.9	56.7	–	237.6
California												
September 1998	6,043.1	6,184.3	13,517.1	5,175.8	3,959.3	22,652.2	1,556.9	1,574.0	3,407.2	W	W	4,102.4
August 1998	5,682.1	5,793.9	13,920.7	5,137.9	3,809.7	22,868.4	1,480.6	1,493.4	3,496.6	W	W	4,204.6
September 1997	NA	NA	12,421.7	4,671.6	4,491.4	21,584.8	1,354.7	1,419.0	3,360.4	W	W	4,013.1
Hawaii												
September 1998	138.0	204.0	325.4	68.0	–	393.4	24.2	32.3	88.9	3.7	–	92.6
August 1998	141.2	207.5	330.4	63.3	–	393.7	24.8	33.3	88.4	2.3	–	90.7
September 1997	140.0	190.7	W	58.9	W	480.5	28.2	37.2	94.1	W	–	W
Nevada												
September 1998	147.4	150.1	736.8	W	W	1,527.5	35.4	41.6	W	W	–	234.9
August 1998	134.2	137.2	777.7	697.7	153.1	1,628.5	32.4	39.4	W	W	–	278.2
September 1997	138.4	146.9	725.3	586.3	NA	1,354.6	W	W	157.7	63.9	–	221.7
Oregon												
September 1998	471.3	479.7	851.6	W	W	3,213.8	66.7	67.4	104.0	127.6	–	231.6
August 1998	441.7	445.9	W	2,009.7	W	3,268.9	65.2	65.3	104.4	144.7	–	249.1
September 1997	473.9	491.0	683.6	W	W	2,677.6	58.6	58.6	86.3	107.7	–	194.0
Washington												
September 1998	1,239.3	1,242.9	W	2,880.4	W	5,142.3	246.1	246.1	371.9	300.9	–	672.7
August 1998	1,174.9	1,179.4	1,900.9	3,036.5	383.9	5,321.4	238.8	238.8	379.9	315.0	–	694.9
September 1997	1,284.7	1,293.9	1,480.1	W	W	4,604.1	237.2	237.4	317.4	364.8	–	682.2

See footnotes at end of table.

Table 43. Refiner Motor Gasoline Volumes by Grade, Sales Type, PAD District, and State

(Thousand Gallons per Day) — Continued

Geographic Area Month	Premium						All Grades					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total[a]	DTW	Rack	Bulk	Total	Through Retail Outlets	Total[a]	DTW	Rack	Bulk	Total
Idaho												
September 1998	9.1	9.4	W	W	–	189.7	118.5	135.8	267.5	1,177.1	–	1,444.6
August 1998	10.2	10.5	39.5	172.1	–	211.6	127.8	144.2	W	W	–	1,579.7
September 1997	9.1	9.3	W	W	–	151.2	121.2	135.8	228.6	1,071.2	–	1,299.7
Montana												
September 1998	W	W	W	W	–	273.3	W	19.9	W	W	–	1,417.8
August 1998	W	W	–	W	–	W	W	22.6	–	1,596.8	–	1,596.8
September 1997	W	W	W	W	–	415.6	W	20.6	W	W	–	1,865.2
Utah												
September 1998	89.4	112.6	W	W	–	451.7	650.1	771.5	635.9	1,660.4	–	2,296.3
August 1998	93.3	118.3	105.8	367.0	–	472.9	681.4	800.2	581.2	1,798.9	–	2,380.1
September 1997	80.4	86.7	79.0	309.2	–	388.2	535.0	644.9	525.5	1,747.9	–	2,273.3
Wyoming												
September 1998	W	W	W	W	–	137.0	W	58.8	W	W	–	722.0
August 1998	W	W	W	W	–	W	W	67.5	W	W	–	817.0
September 1997	W	W	W	W	–	123.2	W	61.3	W	W	–	691.0
PAD District V												
September 1998	2,035.1	2,069.8	5,592.9	W	W	8,509.8	14,678.4	15,001.7	28,415.9	15,381.9	6,216.6	50,014.4
August 1998	1,963.1	1,996.2	5,700.1	W	W	8,891.7	13,960.8	14,228.8	29,169.9	15,886.8	6,028.3	51,085.0
September 1997	1,586.7	1,838.5	4,280.5	1,670.5	565.4	6,516.4	13,173.9	13,728.9	W	13,991.7	W	45,058.4
Alaska												
September 1998	33.7	34.1	W	W	–	58.3	288.0	310.4	W	412.8	W	540.1
August 1998	35.1	35.7	W	W	–	56.9	303.5	310.7	W	445.2	W	593.0
September 1997	W	W	W	24.1	–	W	253.8	271.0	W	W	–	484.0
Arizona												
September 1998	386.9	387.8	W	171.0	W	485.6	2,807.6	2,821.0	1,591.4	1,314.8	338.6	3,244.8
August 1998	374.7	375.4	W	172.6	W	457.7	2,688.2	2,699.0	1,594.1	1,279.5	243.0	3,116.6
September 1997	267.3	268.2	219.2	156.3	NA	382.4	2,403.5	2,414.4	1,462.8	953.9	152.9	2,569.7
California												
September 1998	1,261.9	1,270.8	4,388.2	W	W	6,057.7	8,862.0	9,029.1	21,312.4	6,809.6	4,690.4	32,812.3
August 1998	1,206.4	1,216.3	4,476.2	W	W	6,303.6	8,369.1	8,503.6	21,893.6	6,784.7	4,698.3	33,376.6
September 1997	984.3	1,215.6	3,351.8	W	W	4,585.2	NA	NA	19,134.0	6,034.7	5,014.4	30,183.1
Hawaii												
September 1998	59.6	83.3	163.3	23.5	–	186.9	221.8	319.6	577.6	95.3	–	672.9
August 1998	60.9	82.8	162.1	21.2	–	183.3	226.9	323.6	580.9	86.8	–	667.7
September 1997	59.3	76.5	W	18.3	–	W	227.4	304.4	579.2	W	W	763.5
Nevada												
September 1998	31.9	31.9	199.2	127.5	21.0	347.6	214.7	223.7	W	837.9	W	2,110.1
August 1998	29.7	29.7	W	W	W	389.5	196.4	206.3	W	960.1	W	2,296.1
September 1997	W	W	173.8	94.5	NA	271.6	199.8	208.3	1,056.8	744.7	NA	1,847.8
Oregon												
September 1998	67.3	68.1	140.9	W	W	422.3	605.3	615.2	1,096.5	2,228.3	542.9	3,867.7
August 1998	66.7	66.9	W	300.8	W	474.6	573.7	578.1	1,117.2	2,455.3	420.2	3,992.6
September 1997	53.5	53.9	86.8	W	W	323.3	586.0	603.4	856.6	2,073.3	264.9	3,194.8
Washington												
September 1998	193.7	193.7	W	502.0	W	951.4	1,679.1	1,682.7	2,630.5	3,683.3	452.6	6,766.4
August 1998	189.5	189.5	410.0	523.7	92.5	1,026.1	1,603.1	1,607.6	2,690.8	3,875.2	476.4	7,042.4
September 1997	162.5	163.2	266.7	W	W	729.2	1,684.4	1,694.5	2,064.2	3,723.8	227.4	6,015.5

Dash (–) = No data reported.
NA = Not available.
W = Withheld to avoid disclosure of individual company data.
[a] Includes sales through retail outlets as well as all direct sales to end users that were not made through company-operated retail outlets, e.g., sales to agricultural customers, commercial sales, and industrial sales.
Notes: Motor gasoline averages and totals prior to October 1993 include leaded gasoline.
Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual*.
Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

Table 44. Refiner Motor Gasoline Volumes by Formulation, Sales Type, PAD District, and State

(Thousand Gallons per Day)

Geographic Area Month	Conventional						Oxygenated					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total[a]	DTW	Rack	Bulk	Total	Through Retail Outlets	Total[a]	DTW	Rack	Bulk	Total
United States												
September 1998	37,597.3	39,205.9	21,075.4	152,195.7	25,921.2	199,192.3	2,072.0	2,088.4	W	4,229.7	W	6,960.7
August 1998	39,455.1	41,097.1	22,394.4	156,443.8	31,006.3	209,844.5	1,866.5	1,882.9	W	3,568.7	W	5,632.8
September 1997	37,329.6	39,055.7	24,653.7	146,966.9	28,752.8	200,373.4	2,027.7	2,058.1	1,698.6	3,148.0	–	4,846.6
PAD District I												
September 1998	11,792.9	12,320.6	8,343.6	46,355.7	3,436.1	58,135.4	–	–	–	–	–	–
August 1998	12,352.4	12,870.1	8,680.3	47,866.7	4,043.6	60,590.6	–	–	–	–	–	–
September 1997	11,202.4	11,785.6	8,399.2	44,885.6	3,336.2	56,621.1	–	–	–	–	–	–
Subdistrict IA												
September 1998	–	–	W	W	–	973.3	–	–	–	–	–	–
August 1998	–	–	W	1,032.1	W	1,385.0	–	–	–	–	–	–
September 1997	–	–	W	958.2	W	1,160.9	–	–	–	–	–	–
Connecticut												
September 1998	–	–	–	–	–	–	–	–	–	–	–	–
August 1998	–	–	–	–	–	–	–	–	–	–	–	–
September 1997	–	–	–	–	–	–	–	–	–	–	–	–
Maine												
September 1998	–	–	–	657.7	–	657.7	–	–	–	–	–	–
August 1998	–	–	–	W	W	1,065.3	–	–	–	–	–	–
September 1997	–	–	–	W	W	867.7	–	–	–	–	–	–
Massachusetts												
September 1998	–	–	–	–	–	–	–	–	–	–	–	–
August 1998	–	–	–	–	–	–	–	–	–	–	–	–
September 1997	–	–	–	–	–	–	–	–	–	–	–	–
New Hampshire												
September 1998	–	–	W	W	–	64.9	–	–	–	–	–	–
August 1998	–	–	W	W	–	42.8	–	–	–	–	–	–
September 1997	–	–	W	W	–	24.9	–	–	–	–	–	–
Rhode Island												
September 1998	–	–	–	–	–	–	–	–	–	–	–	–
August 1998	–	–	–	–	–	–	–	–	–	–	–	–
September 1997	–	–	–	–	–	–	–	–	–	–	–	–
Vermont												
September 1998	–	–	W	W	–	250.7	–	–	–	–	–	–
August 1998	–	–	W	W	–	276.9	–	–	–	–	–	–
September 1997	–	–	W	W	–	268.3	–	–	–	–	–	–
Subdistrict IB												
September 1998	2,736.1	2,781.7	W	10,159.8	W	15,667.2	–	–	–	–	–	–
August 1998	2,921.3	2,968.3	W	10,742.4	W	16,781.9	–	–	–	–	–	–
September 1997	2,691.8	2,749.7	W	9,637.9	W	15,085.3	–	–	–	–	–	–
Delaware												
September 1998	–	–	–	–	–	–	–	–	–	–	–	–
August 1998	–	–	–	–	–	–	–	–	–	–	–	–
September 1997	–	–	–	–	–	–	–	–	–	–	–	–
District of Columbia												
September 1998	–	–	–	–	–	–	–	–	–	–	–	–
August 1998	–	–	–	–	–	–	–	–	–	–	–	–
September 1997	–	–	–	–	–	–	–	–	–	–	–	–
Maryland												
September 1998	–	W	W	W	–	597.7	–	–	–	–	–	–
August 1998	–	W	W	W	–	691.0	–	–	–	–	–	–
September 1997	W	7.0	W	W	–	643.0	–	–	–	–	–	–
New Jersey												
September 1998	–	–	–	–	1,393.2	1,393.2	–	–	–	–	–	–
August 1998	–	–	–	–	1,950.8	1,950.8	–	–	–	–	–	–
September 1997	–	–	–	–	1,709.9	1,709.9	–	–	–	–	–	–
New York												
September 1998	1,317.3	W	1,273.7	3,868.1	NA	5,349.5	–	–	–	–	–	–
August 1998	W	W	W	4,102.4	W	5,689.9	–	–	–	–	–	–
September 1997	W	1,243.9	1,261.7	W	W	5,053.5	–	–	–	–	–	–
Pennsylvania												
September 1998	1,418.8	1,438.2	W	W	W	8,326.9	–	–	–	–	–	–
August 1998	W	1,530.5	1,368.2	W	W	8,450.2	–	–	–	–	–	–
September 1997	1,474.5	1,498.8	1,273.3	W	W	7,678.9	–	–	–	–	–	–

See footnotes at end of table.

Table 44. Refiner Motor Gasoline Volumes by Formulation, Sales Type, PAD District, and State

(Thousand Gallons per Day) — Continued

Geographic Area Month	Reformulated						All Formulations					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total[a]	DTW	Rack	Bulk	Total	Through Retail Outlets	Total[a]	DTW	Rack	Bulk	Total
United States												
September 1998	23,480.5	23,863.0	W	32,926.6	W	92,967.8	63,149.8	65,157.2	72,291.5	189,352.0	37,477.4	299,120.9
August 1998	23,524.7	23,871.6	W	34,220.2	W	92,896.5	64,846.2	66,851.6	73,771.1	194,232.8	40,370.0	308,373.8
September 1997	21,977.1	22,689.6	46,103.3	30,570.1	8,923.4	85,596.8	61,334.5	63,803.4	72,455.6	180,685.0	37,676.2	290,816.8
PAD District I												
September 1998	4,461.9	4,621.0	20,444.7	15,720.5	5,425.9	41,591.1	16,254.8	16,941.6	28,788.3	62,076.2	8,862.1	99,726.5
August 1998	4,704.3	4,864.0	20,526.5	16,736.1	4,747.8	42,010.4	17,056.7	17,734.1	29,206.8	64,602.8	8,791.4	102,601.0
September 1997	4,201.9	4,421.2	20,358.0	15,003.5	3,687.0	39,048.4	15,404.3	16,206.8	28,757.2	59,889.1	7,023.2	95,669.5
Subdistrict IA												
September 1998	774.9	783.0	4,377.2	W	W	9,974.8	774.9	783.0	W	6,116.4	W	10,948.1
August 1998	832.2	839.9	W	5,538.4	W	11,391.1	832.2	839.9	4,538.1	6,570.5	1,667.5	12,776.1
September 1997	717.0	724.9	W	5,107.7	W	10,473.7	717.0	724.9	4,399.2	6,065.9	1,169.5	11,634.6
Connecticut												
September 1998	W	W	W	1,660.7	W	3,115.5	W	W	W	1,660.7	W	3,115.5
August 1998	W	W	1,353.1	W	W	3,446.6	W	W	1,353.1	W	W	3,446.6
September 1997	W	W	1,303.7	W	W	3,342.7	W	W	1,303.7	W	W	3,342.7
Maine												
September 1998	–	–	W	W	–	676.2	–	–	W	W	–	1,333.9
August 1998	–	–	W	W	W	1,229.8	–	–	W	1,473.4	W	2,295.1
September 1997	–	–	W	W	W	820.3	–	–	W	1,436.1	W	1,688.0
Massachusetts												
September 1998	448.0	450.6	2,303.1	W	W	4,599.1	448.0	450.6	2,303.1	W	W	4,599.1
August 1998	479.6	481.9	2,366.1	2,191.4	517.2	5,074.7	479.6	481.9	2,366.1	2,191.4	517.2	5,074.7
September 1997	408.9	411.7	2,297.8	1,960.4	565.1	4,823.3	408.9	411.7	2,297.8	1,960.4	565.1	4,823.3
New Hampshire												
September 1998	100.0	100.0	W	W	–	356.5	100.0	100.0	255.1	166.3	–	421.4
August 1998	108.1	108.1	W	W	–	342.6	108.1	108.1	262.7	122.7	–	385.5
September 1997	98.2	98.3	W	W	–	292.6	98.2	98.3	274.3	43.1	–	317.5
Rhode Island												
September 1998	W	W	420.0	807.6	–	1,227.6	W	W	420.0	807.6	–	1,227.6
August 1998	W	W	426.7	870.6	–	1,297.3	W	W	426.7	870.6	–	1,297.3
September 1997	W	W	402.1	792.7	–	1,194.8	W	W	402.1	792.7	–	1,194.8
Vermont												
September 1998	–	–	–	–	–	–	–	–	W	W	–	250.7
August 1998	–	–	–	–	–	–	–	–	W	W	–	276.9
September 1997	–	–	–	–	–	–	–	–	W	W	–	268.3
Subdistrict IB												
September 1998	2,778.2	2,881.9	13,959.4	8,003.4	5,002.1	26,964.9	5,514.3	5,663.6	W	18,163.2	W	42,632.1
August 1998	2,945.6	3,050.3	W	8,482.4	W	25,799.3	5,866.9	6,018.5	16,727.7	19,224.7	6,628.7	42,581.2
September 1997	2,613.7	2,763.1	W	7,608.9	W	24,232.6	5,305.5	5,512.8	16,533.4	17,246.8	5,537.8	39,317.9
Delaware												
September 1998	35.0	47.6	W	W	–	864.4	35.0	47.6	W	W	–	864.4
August 1998	W	54.9	W	W	–	892.2	W	54.9	W	W	–	892.2
September 1997	W	41.0	W	W	–	784.4	W	41.0	331.6	452.8	–	784.4
District of Columbia												
September 1998	–	W	335.4	–	–	335.4	–	W	335.4	–	–	335.4
August 1998	–	9.2	W	W	–	NA	–	9.2	W	W	–	NA
September 1997	–	11.4	355.1	–	–	355.1	–	11.4	355.1	–	–	355.1
Maryland												
September 1998	–	W	W	W	W	4,565.9	–	W	2,989.3	W	W	5,163.6
August 1998	W	W	2,861.9	W	W	4,541.1	W	45.3	W	2,316.5	W	5,232.1
September 1997	–	37.5	W	1,655.7	W	4,746.1	W	44.5	3,100.4	W	W	5,389.1
New Jersey												
September 1998	1,378.2	1,405.6	4,622.3	3,446.6	4,692.0	12,760.8	1,378.2	1,405.6	4,622.3	3,446.6	6,085.2	14,154.0
August 1998	1,505.5	1,532.7	4,715.6	3,767.1	3,117.4	11,600.1	1,505.5	1,532.7	4,715.6	3,767.1	5,068.2	13,550.9
September 1997	1,317.9	1,373.9	4,582.7	3,146.8	2,320.2	10,049.8	1,317.9	1,373.9	4,582.7	3,146.8	4,030.2	11,759.7
New York												
September 1998	703.0	W	4,063.5	1,537.2	248.6	5,849.2	2,020.3	2,058.5	5,337.2	5,405.3	456.3	11,198.7
August 1998	W	W	W	1,561.5	W	5,877.2	2,146.8	2,184.7	5,503.3	5,663.8	400.0	11,567.1
September 1997	W	698.7	3,965.2	W	W	5,756.1	1,892.7	1,942.6	5,227.0	5,225.3	357.4	10,809.6
Pennsylvania												
September 1998	662.0	665.6	W	W	W	2,589.1	2,080.8	2,103.8	2,973.8	6,618.9	1,323.2	10,916.0
August 1998	W	661.2	W	W	W	2,560.0	2,168.5	2,191.7	W	6,897.8	W	11,010.2
September 1997	582.5	600.5	1,663.2	877.9	–	2,541.2	2,057.0	2,099.3	2,936.6	W	W	10,220.0

See footnotes at end of table.

Table 44. Refiner Motor Gasoline Volumes by Formulation, Sales Type, PAD District, and State

(Thousand Gallons per Day) — Continued

Geographic Area Month	Conventional						Oxygenated					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total[a]	DTW	Rack	Bulk	Total	Through Retail Outlets	Total[a]	DTW	Rack	Bulk	Total
Subdistrict IC												
September 1998	9,056.7	9,538.9	5,666.4	W	W	41,494.8	–	–	–	–	–	–
August 1998	9,431.1	9,901.8	5,836.4	36,092.2	NA	42,423.7	–	–	–	–	–	–
September 1997	8,510.6	9,035.9	W	34,289.6	W	40,374.9	–	–	–	–	–	–
Florida												
September 1998	4,570.0	4,742.3	4,392.0	8,971.5	195.8	13,559.4	–	–	–	–	–	–
August 1998	4,752.3	4,911.4	W	9,128.8	W	13,819.5	–	–	–	–	–	–
September 1997	4,313.9	4,509.6	W	9,068.7	W	13,425.8	–	–	–	–	–	–
Georgia												
September 1998	2,036.8	2,146.6	W	7,776.9	W	8,780.6	–	–	–	–	–	–
August 1998	2,117.0	2,231.5	992.6	8,025.9	–	9,018.5	–	–	–	–	–	–
September 1997	1,844.9	1,966.6	W	7,695.0	W	8,723.3	–	–	–	–	–	–
North Carolina												
September 1998	823.1	940.0	W	W	–	9,879.6	–	–	–	–	–	–
August 1998	860.6	976.1	W	W	–	9,986.8	–	–	–	–	–	–
September 1997	798.0	926.3	130.5	9,330.0	–	9,460.5	–	–	–	–	–	–
South Carolina												
September 1998	844.3	904.4	W	W	–	4,645.4	–	–	–	–	–	–
August 1998	899.8	959.8	W	4,576.6	W	4,768.9	–	–	–	–	–	–
September 1997	855.3	904.3	W	W	–	4,170.0	–	–	–	–	–	–
Virginia												
September 1998	181.6	192.2	W	W	NA	4,154.1	–	–	–	–	–	–
August 1998	190.9	200.2	W	W	NA	4,290.7	–	–	–	–	–	–
September 1997	131.5	144.2	W	3,665.0	W	3,977.0	–	–	–	–	–	–
West Virginia												
September 1998	600.8	613.4	W	W	–	475.7	–	–	–	–	–	–
August 1998	610.4	622.7	W	W	–	539.3	–	–	–	–	–	–
September 1997	567.1	585.0	W	W	–	618.4	–	–	–	–	–	–
PAD District II												
September 1998	14,802.3	15,330.7	6,870.8	58,700.2	6,071.1	71,642.1	1,091.5	1,100.4	W	W	–	3,699.0
August 1998	15,666.8	16,195.9	W	59,654.1	W	72,707.4	W	W	W	W	–	3,574.4
September 1997	15,745.3	16,269.9	W	56,376.5	W	73,796.8	980.7	997.2	W	W	–	2,220.4
Illinois												
September 1998	527.6	539.3	W	W	1,437.2	6,148.8	–	–	–	–	–	–
August 1998	565.8	577.3	NA	W	W	6,761.8	–	–	–	–	–	–
September 1997	604.4	616.0	W	4,469.9	W	5,915.0	–	–	–	–	–	–
Indiana												
September 1998	1,348.6	1,359.8	W	W	376.6	5,533.4	–	–	–	–	–	–
August 1998	1,482.3	1,499.3	544.7	4,728.1	388.2	5,661.0	–	–	–	–	–	–
September 1997	1,395.6	1,411.5	1,255.0	3,792.7	725.3	5,773.0	–	–	–	–	–	–
Iowa												
September 1998	143.2	145.2	NA	3,609.2	–	3,709.8	–	–	–	–	–	–
August 1998	154.3	157.1	NA	3,565.0	–	3,670.0	–	–	–	–	–	–
September 1997	211.0	214.9	W	W	–	3,624.3	–	–	–	–	–	–
Kansas												
September 1998	562.2	577.6	W	2,816.9	W	3,551.1	–	–	–	–	–	–
August 1998	577.6	592.7	W	2,779.1	W	3,651.1	–	–	–	–	–	–
September 1997	581.0	597.0	W	2,845.9	W	3,697.2	–	–	–	–	–	–
Kentucky												
September 1998	W	509.6	W	W	W	3,440.4	–	–	–	–	–	–
August 1998	515.0	544.9	W	W	W	3,315.2	–	–	–	–	–	–
September 1997	457.3	480.2	W	W	W	3,373.2	–	–	–	–	–	–
Michigan												
September 1998	3,007.2	3,148.8	2,440.9	7,031.8	–	9,472.7	–	–	–	–	–	–
August 1998	3,230.5	3,368.8	2,438.5	7,257.9	–	9,696.4	–	–	–	–	–	–
September 1997	3,153.7	3,286.9	3,402.4	6,555.5	–	9,957.9	–	–	–	–	–	–
Minnesota												
September 1998	W	W	0.2	1,280.1	W	W	W	W	W	3,042.4	–	W
August 1998	W	W	0.3	1,487.0	W	W	W	W	W	2,934.8	–	W
September 1997	151.6	153.9	44.0	2,642.3	W	W	980.7	997.2	W	1,838.3	–	W
Missouri												
September 1998	853.3	871.0	510.8	4,715.7	–	5,226.5	–	–	–	–	–	–
August 1998	890.5	906.4	522.3	4,904.6	–	5,426.9	–	–	–	–	–	–
September 1997	948.7	968.7	641.1	4,404.2	–	5,045.4	–	–	–	–	–	–

See footnotes at end of table.

Table 44. Refiner Motor Gasoline Volumes by Formulation, Sales Type, PAD District, and State

(Thousand Gallons per Day) — Continued

Geographic Area Month	Reformulated						All Formulations					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total[a]	DTW	Rack	Bulk	Total	Through Retail Outlets	Total[a]	DTW	Rack	Bulk	Total
Subdistrict IC												
September 1998	908.9	956.1	2,108.1	W	W	4,651.4	9,965.6	10,495.1	7,774.5	37,796.5	575.2	46,146.3
August 1998	926.6	973.8	2,104.6	2,715.3	–	4,820.0	10,357.6	10,875.6	7,941.0	38,807.5	NA	47,243.7
September 1997	871.1	933.1	W	2,286.8	W	4,342.1	9,381.7	9,969.1	7,824.7	36,576.4	315.9	44,717.0
Florida												
September 1998	–	–	–	–	–	–	4,570.0	4,742.3	4,392.0	8,971.5	195.8	13,559.4
August 1998	–	–	–	–	–	–	4,752.3	4,911.4	W	9,128.8	W	13,819.5
September 1997	–	–	–	–	–	–	4,313.9	4,509.6	W	9,068.7	W	13,425.8
Georgia												
September 1998	–	–	–	–	–	–	2,036.8	2,146.6	W	7,776.9	W	8,780.6
August 1998	–	–	–	–	–	–	2,117.0	2,231.5	992.6	8,025.9	–	9,018.5
September 1997	–	–	–	–	–	–	1,844.9	1,966.6	W	7,695.0	W	8,723.3
North Carolina												
September 1998	–	–	–	–	–	–	823.1	940.0	W	W	–	9,879.6
August 1998	–	–	–	–	–	–	860.6	976.1	W	W	–	9,986.8
September 1997	–	–	–	–	–	–	798.0	926.3	130.5	9,330.0	–	9,460.5
South Carolina												
September 1998	–	–	–	–	–	–	844.3	904.4	W	W	–	4,645.4
August 1998	–	–	–	–	–	–	899.8	959.8	W	4,576.6	W	4,768.9
September 1997	–	–	–	–	–	–	855.3	904.3	W	W	–	4,170.0
Virginia												
September 1998	908.9	956.1	2,108.1	W	W	4,651.4	1,090.5	1,148.3	W	6,302.7	W	8,805.5
August 1998	926.6	973.8	W	W	–	4,820.0	1,117.5	1,174.1	2,159.9	6,651.8	NA	9,110.7
September 1997	871.1	933.1	W	2,286.8	W	4,342.1	1,002.6	1,077.3	2,156.3	5,951.9	210.9	8,319.1
West Virginia												
September 1998	–	–	–	–	–	–	600.8	613.4	W	W	–	475.7
August 1998	–	–	–	–	–	–	610.4	622.7	W	W	–	539.3
September 1997	–	–	–	–	–	–	567.1	585.0	W	W	–	618.4
PAD District II												
September 1998	3,671.7	3,713.0	W	W	–	8,209.5	19,565.5	20,144.1	11,047.7	66,431.8	6,071.1	83,550.6
August 1998	W	W	3,643.2	W	W	8,448.4	20,712.4	21,294.4	11,279.4	67,426.0	6,024.7	84,730.1
September 1997	3,662.7	3,702.2	3,607.2	W	W	7,658.1	20,388.7	20,969.2	14,378.0	62,280.5	7,016.7	83,675.2
Illinois												
September 1998	2,600.6	2,608.2	W	W	–	4,533.7	3,128.3	3,147.5	2,722.2	6,523.2	1,437.2	10,682.6
August 1998	2,715.6	2,724.2	2,709.7	W	W	4,584.2	3,281.4	3,301.5	2,776.2	6,725.7	1,844.1	11,345.9
September 1997	2,570.2	2,582.6	W	1,673.1	W	4,457.5	3,174.6	3,198.7	3,093.1	6,143.0	1,136.4	10,372.5
Indiana												
September 1998	287.5	294.4	W	W	–	1,154.9	1,636.1	1,654.3	941.3	5,370.3	376.6	6,688.2
August 1998	320.4	327.3	427.5	734.6	–	1,162.1	1,802.7	1,826.5	972.2	5,462.6	388.2	6,823.1
September 1997	274.8	277.5	240.5	532.0	–	772.4	1,670.4	1,688.9	1,495.4	4,324.7	725.3	6,545.4
Iowa												
September 1998	–	–	–	–	–	–	143.2	145.2	NA	3,609.2	–	3,709.8
August 1998	–	–	–	–	–	–	154.3	157.1	NA	3,565.0	–	3,670.0
September 1997	–	–	–	–	–	–	211.0	214.9	W	W	–	3,624.3
Kansas												
September 1998	–	–	–	–	–	–	562.2	577.6	W	2,816.9	W	3,551.1
August 1998	–	–	–	–	–	–	577.6	592.7	W	2,779.1	W	3,651.1
September 1997	–	–	–	–	–	–	581.0	597.0	W	2,845.9	W	3,697.2
Kentucky												
September 1998	W	328.1	W	W	–	992.0	782.6	837.8	W	4,182.6	W	4,432.4
August 1998	324.4	346.2	W	W	–	1,146.1	839.4	891.1	W	4,179.2	W	4,461.3
September 1997	328.6	350.6	W	W	–	980.6	785.9	830.8	W	3,742.7	W	4,353.8
Michigan												
September 1998	–	–	–	–	–	–	3,007.2	3,148.8	2,440.9	7,031.8	–	9,472.7
August 1998	–	–	–	–	–	–	3,230.5	3,368.8	2,438.5	7,257.9	–	9,696.4
September 1997	–	–	–	–	–	–	3,153.7	3,286.9	3,402.4	6,555.5	–	9,957.9
Minnesota												
September 1998	–	–	–	–	–	–	1,092.1	1,101.1	W	4,322.5	W	5,161.8
August 1998	–	–	–	–	–	–	1,158.7	1,172.6	W	4,421.8	W	5,280.6
September 1997	–	–	–	–	–	–	1,132.3	1,151.1	W	4,480.6	W	5,147.1
Missouri												
September 1998	–	–	–	–	–	–	853.3	871.0	510.8	4,715.7	–	5,226.5
August 1998	–	–	–	–	–	–	890.5	906.4	522.3	4,904.6	–	5,426.9
September 1997	–	–	–	–	–	–	948.7	968.7	641.1	4,404.2	–	5,045.4

See footnotes at end of table.

Table 44. Refiner Motor Gasoline Volumes by Formulation, Sales Type, PAD District, and State

(Thousand Gallons per Day) — Continued

Geographic Area Month	Conventional						Oxygenated					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total[a]	DTW	Rack	Bulk	Total	Through Retail Outlets	Total[a]	DTW	Rack	Bulk	Total
Nebraska												
September 1998	58.7	60.7	NA	1,884.7	–	2,009.5	–	–	–	–	–	–
August 1998	62.4	63.9	NA	1,844.6	–	1,978.3	–	–	–	–	–	–
September 1997	118.1	119.4	154.9	1,862.2	–	2,017.1	–	–	–	–	–	–
North Dakota												
September 1998	W	W	NA	NA	–	NA	–	–	–	–	–	–
August 1998	W	3.6	NA	942.5	–	1,008.9	–	–	–	–	–	–
September 1997	W	3.6	W	W	–	1,028.3	–	–	–	–	–	–
Ohio												
September 1998	5,087.8	5,308.7	W	6,473.1	W	9,097.4	–	–	–	–	–	–
August 1998	5,370.7	5,586.3	W	6,526.9	W	9,596.3	–	–	–	–	–	–
September 1997	5,274.8	5,520.8	W	5,689.9	W	9,497.2	–	–	–	–	–	–
Oklahoma												
September 1998	891.0	923.4	W	3,290.9	W	6,558.4	–	–	–	–	–	–
August 1998	924.6	959.2	W	3,253.9	W	5,510.0	–	–	–	–	–	–
September 1997	958.8	973.6	W	W	3,456.6	6,929.3	–	–	–	–	–	–
South Dakota												
September 1998	W	W	NA	1,079.8	–	1,116.9	–	–	–	–	–	–
August 1998	W	15.2	42.8	1,162.3	–	1,205.1	–	–	–	–	–	–
September 1997	W	16.6	38.0	1,091.5	–	1,129.6	–	–	–	–	–	–
Tennessee												
September 1998	1,578.6	1,613.5	244.3	8,464.0	–	8,708.4	–	–	–	–	–	–
August 1998	1,614.6	1,653.3	253.0	8,492.5	–	8,745.5	–	–	–	–	–	–
September 1997	1,590.3	1,621.2	478.3	7,949.9	–	8,428.1	–	–	–	–	–	–
Wisconsin												
September 1998	W	255.1	NA	4,472.8	W	W	–	–	–	W	–	W
August 1998	W	W	NA	4,644.5	W	W	–	–	–	W	–	W
September 1997	281.0	285.5	148.1	4,275.4	W	W	–	–	–	W	–	W
PAD District III												
September 1998	5,344.6	5,603.2	875.5	31,936.4	14,344.1	47,155.9	W	W	W	W	–	276.8
August 1998	W	W	W	W	W	W	–	–	W	–	–	W
September 1997	5,207.2	5,556.0	W	W	17,060.1	48,963.3	W	W	W	W	–	284.8
Alabama												
September 1998	380.1	421.6	139.6	5,294.8	–	5,434.4	–	–	–	–	–	–
August 1998	395.2	439.7	142.6	5,154.8	–	5,297.4	–	–	–	–	–	–
September 1997	405.5	448.1	151.1	5,110.4	–	5,261.5	–	–	–	–	–	–
Arkansas												
September 1998	234.3	237.6	W	3,525.9	W	3,863.9	–	–	–	–	–	–
August 1998	229.7	231.9	W	3,517.3	W	3,797.9	–	–	–	–	–	–
September 1997	276.4	279.3	W	3,471.8	W	3,936.2	–	–	–	–	–	–
Louisiana												
September 1998	1,094.7	W	435.8	4,273.3	W	W	–	–	–	–	–	–
August 1998	1,127.0	W	456.2	4,308.6	2,087.6	6,852.4	–	–	–	–	–	–
September 1997	1,114.1	W	484.8	4,079.6	W	W	–	–	–	–	–	–
Mississippi												
September 1998	139.0	160.0	8.2	W	W	4,375.5	–	–	–	–	–	–
August 1998	146.0	166.8	8.0	W	W	4,408.4	–	–	–	–	–	–
September 1997	122.8	154.1	12.0	W	W	3,995.5	–	–	–	–	–	–
New Mexico												
September 1998	W	587.1	W	W	–	W	–	–	W	–	–	W
August 1998	600.3	605.0	W	W	–	W	–	–	W	–	–	W
September 1997	W	W	W	W	–	W	W	W	W	–	–	W
Texas												
September 1998	W	W	W	W	W	25,201.2	W	W	–	W	–	W
August 1998	W	3,285.5	166.4	W	W	29,502.9	–	–	–	–	–	–
September 1997	W	W	W	13,048.2	W	28,162.9	–	W	W	W	–	W
PAD District IV												
September 1998	2,859.8	3,009.2	1,181.0	7,166.9	–	8,347.9	–	–	–	514.6	–	514.6
August 1998	3,018.8	3,163.9	1,131.1	W	–	W	–	–	–	W	–	W
September 1997	2,679.8	2,815.3	1,050.8	W	W	8,682.7	–	–	W	W	–	465.8
Colorado												
September 1998	2,018.7	2,023.2	W	W	–	2,467.3	–	–	–	W	–	514.6
August 1998	2,124.3	2,129.5	NA	W	–	W	–	–	–	W	–	W
September 1997	1,951.2	1,952.6	W	W	W	W	–	–	–	W	–	W

See footnotes at end of table.

Table 44. Refiner Motor Gasoline Volumes by Formulation, Sales Type, PAD District, and State

(Thousand Gallons per Day) — Continued

Geographic Area Month	Reformulated						All Formulations					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total[a]	DTW	Rack	Bulk	Total	Through Retail Outlets	Total[a]	DTW	Rack	Bulk	Total
Nebraska												
September 1998	–	–	–	–	–	–	58.7	60.7	NA	1,884.7	–	2,009.5
August 1998	–	–	–	–	–	–	62.4	63.9	NA	1,844.6	–	1,978.3
September 1997	–	–	–	–	–	–	118.1	119.4	154.9	1,862.2	–	2,017.1
North Dakota												
September 1998	–	–	–	–	–	–	W	W	NA	NA	–	NA
August 1998	–	–	–	–	–	–	W	3.6	NA	942.5	–	1,008.9
September 1997	–	–	–	–	–	–	W	3.6	W	W	–	1,028.3
Ohio												
September 1998	–	–	–	–	–	–	5,087.8	5,308.7	W	6,473.1	W	9,097.4
August 1998	–	–	–	–	–	–	5,370.7	5,586.3	W	6,526.9	W	9,596.3
September 1997	–	–	–	–	–	–	5,274.8	5,520.8	W	5,689.9	W	9,497.2
Oklahoma												
September 1998	–	–	–	–	–	–	891.0	923.4	W	3,290.9	W	6,558.4
August 1998	–	–	–	–	–	–	924.6	959.2	W	3,253.9	W	5,510.0
September 1997	–	–	–	–	–	–	958.8	973.6	W	W	3,456.6	6,929.3
South Dakota												
September 1998	–	–	–	–	–	–	W	W	NA	1,079.8	–	1,116.9
August 1998	–	–	–	–	–	–	W	15.2	42.8	1,162.3	–	1,205.1
September 1997	–	–	–	–	–	–	W	16.6	38.0	1,091.5	–	1,129.6
Tennessee												
September 1998	–	–	–	–	–	–	1,578.6	1,613.5	244.3	8,464.0	–	8,708.4
August 1998	–	–	–	–	–	–	1,614.6	1,653.3	253.0	8,492.5	–	8,745.5
September 1997	–	–	–	–	–	–	1,590.3	1,621.2	478.3	7,949.9	–	8,428.1
Wisconsin												
September 1998	W	482.3	W	W	–	1,528.9	728.2	737.4	W	5,715.8	W	6,119.0
August 1998	W	W	W	W	–	1,556.1	788.5	796.1	W	5,907.4	W	6,330.7
September 1997	489.2	491.5	W	W	–	1,447.5	770.2	777.0	W	5,372.6	W	5,901.9
PAD District III												
September 1998	W	W	W	W	1,983.6	9,534.1	9,791.2	10,060.6	2,858.7	37,780.5	16,327.7	56,966.9
August 1998	W	W	2,032.0	W	W	8,722.8	10,097.5	10,430.4	2,983.8	37,980.0	19,525.6	60,489.5
September 1997	W	W	2,005.9	5,287.5	723.7	8,017.1	9,687.9	10,083.2	3,011.5	36,469.9	17,783.8	57,265.2
Alabama												
September 1998	–	–	–	–	–	–	380.1	421.6	139.6	5,294.8	–	5,434.4
August 1998	–	–	–	–	–	–	395.2	439.7	142.6	5,154.8	–	5,297.4
September 1997	–	–	–	–	–	–	405.5	448.1	151.1	5,110.4	–	5,261.5
Arkansas												
September 1998	–	–	–	–	–	–	234.3	237.6	W	3,525.9	W	3,863.9
August 1998	–	–	–	–	–	–	229.7	231.9	W	3,517.3	W	3,797.9
September 1997	–	–	–	–	–	–	276.4	279.3	W	3,471.8	W	3,936.2
Louisiana												
September 1998	–	W	–	–	W	W	1,094.7	1,114.7	435.8	4,273.3	1,959.2	6,668.3
August 1998	–	W	–	–	–	–	1,127.0	1,147.8	456.2	4,308.6	2,087.6	6,852.4
September 1997	–	W	–	–	W	W	1,114.1	1,119.5	484.8	4,079.6	1,205.4	5,769.7
Mississippi												
September 1998	–	–	–	–	–	–	139.0	160.0	8.2	W	W	4,375.5
August 1998	–	–	–	–	–	–	146.0	166.8	8.0	W	W	4,408.4
September 1997	–	–	–	–	–	–	122.8	154.1	12.0	W	W	3,995.5
New Mexico												
September 1998	–	–	–	–	–	–	582.6	587.1	W	W	–	1,835.0
August 1998	–	–	–	–	–	–	600.3	605.0	W	W	–	1,907.7
September 1997	–	–	–	–	–	–	578.5	586.0	W	W	–	2,020.3
Texas												
September 1998	W	4,404.0	W	W	W	W	7,360.4	7,539.6	2,114.2	19,659.9	13,015.7	34,789.7
August 1998	W	4,553.6	2,032.0	W	W	8,722.8	7,599.3	7,839.1	2,198.5	19,756.3	16,270.9	38,225.7
September 1997	W	4,404.1	2,005.9	W	W	W	7,190.6	7,496.2	2,210.4	18,576.1	15,495.5	36,282.0
PAD District IV												
September 1998	–	–	–	–	–	–	2,859.8	3,009.2	1,181.0	7,681.6	–	8,862.6
August 1998	–	–	–	–	–	–	3,018.8	3,163.9	1,131.1	8,337.2	–	9,468.3
September 1997	–	–	–	–	–	–	2,679.8	2,815.3	W	8,053.7	W	9,148.5
Colorado												
September 1998	–	–	–	–	–	–	2,018.7	2,023.2	NA	2,716.8	–	2,981.9
August 1998	–	–	–	–	–	–	2,124.3	2,129.5	NA	2,837.8	–	3,094.7
September 1997	–	–	–	–	–	–	1,951.2	1,952.6	W	2,697.6	W	3,019.2

See footnotes at end of table.

Table 44. Refiner Motor Gasoline Volumes by Formulation, Sales Type, PAD District, and State

(Thousand Gallons per Day) — Continued

Geographic Area Month	Conventional						Oxygenated					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total[a]	DTW	Rack	Bulk	Total	Through Retail Outlets	Total[a]	DTW	Rack	Bulk	Total
Idaho												
September 1998	118.5	135.8	267.5	1,177.1	–	1,444.6	–	–	–	–	–	–
August 1998	127.8	144.2	W	W	–	1,579.7	–	–	–	–	–	–
September 1997	121.2	135.8	228.6	1,071.2	–	1,299.7	–	–	–	–	–	–
Montana												
September 1998	W	19.9	W	W	–	1,417.8	–	–	–	–	–	–
August 1998	W	22.6	–	1,596.8	–	1,596.8	–	–	–	–	–	–
September 1997	W	20.6	W	W	–	1,865.2	–	–	–	–	–	–
Utah												
September 1998	650.1	771.5	635.9	1,660.4	–	2,296.3	–	–	–	–	–	–
August 1998	681.4	800.2	581.2	1,798.9	–	2,380.1	–	–	–	–	–	–
September 1997	535.0	644.9	W	1,747.9	–	W	–	–	W	–	–	W
Wyoming												
September 1998	W	58.8	W	W	–	722.0	–	–	–	–	–	–
August 1998	W	67.5	W	W	–	817.0	–	–	–	–	–	–
September 1997	W	61.3	W	W	–	691.0	–	–	–	–	–	–
PAD District V												
September 1998	2,797.8	2,942.1	3,804.6	8,036.5	2,069.9	13,911.0	W	W	2,086.1	W	W	2,470.3
August 1998	W	W	W	8,879.7	W	15,881.0	W	W	W	W	W	1,489.0
September 1997	2,495.0	2,628.9	3,834.9	W	W	12,309.6	W	W	W	W	–	1,875.6
Alaska												
September 1998	W	W	99.0	W	W	W	W	W	W	W	–	W
August 1998	W	W	115.2	W	W	W	W	W	W	W	–	W
September 1997	W	W	W	378.4	–	W	W	W	W	W	–	W
Arizona												
September 1998	653.8	659.3	W	1,019.4	W	1,570.2	W	W	W	W	W	158.3
August 1998	W	674.0	W	1,011.5	W	W	–	W	–	W	W	W
September 1997	440.5	448.6	W	646.7	W	1,139.3	W	W	W	W	–	112.1
California												
September 1998	–	–	–	95.8	599.6	695.4	–	–	–	–	–	–
August 1998	–	–	–	W	W	1,160.3	–	–	–	–	–	–
September 1997	–	–	–	108.4	519.7	628.1	–	–	–	–	–	–
Hawaii												
September 1998	221.8	319.6	577.6	95.3	–	672.9	–	–	–	–	–	–
August 1998	226.9	323.6	580.9	86.8	–	667.7	–	–	–	–	–	–
September 1997	227.4	304.4	579.2	W	W	763.5	–	–	–	–	–	–
Nevada												
September 1998	W	W	590.6	W	W	1,477.8	W	W	W	W	–	632.3
August 1998	196.4	206.3	W	960.1	W	2,296.1	–	–	–	–	–	–
September 1997	W	W	666.3	653.0	NA	1,365.6	W	W	390.6	91.7	–	482.2
Oregon												
September 1998	W	W	W	W	542.9	W	W	W	W	W	–	W
August 1998	W	W	W	W	420.2	W	W	W	W	W	–	W
September 1997	W	W	W	W	264.9	W	W	W	W	W	–	W
Washington												
September 1998	W	W	W	W	452.6	5,559.4	W	W	W	W	–	1,207.0
August 1998	W	W	W	W	476.4	W	W	W	W	W	–	W
September 1997	W	W	W	W	W	5,042.4	W	W	W	W	–	973.1

See footnotes at end of table.

Table 44. Refiner Motor Gasoline Volumes by Formulation, Sales Type, PAD District, and State

(Thousand Gallons per Day) — Continued

Geographic Area Month	Reformulated						All Formulations					
	Sales to End Users		Sales for Resale				Sales to End Users		Sales for Resale			
	Through Retail Outlets	Total[a]	DTW	Rack	Bulk	Total	Through Retail Outlets	Total[a]	DTW	Rack	Bulk	Total
Idaho												
September 1998	–	–	–	–	–	–	118.5	135.8	267.5	1,177.1	–	1,444.6
August 1998	–	–	–	–	–	–	127.8	144.2	W	W	–	1,579.7
September 1997	–	–	–	–	–	–	121.2	135.8	228.6	1,071.2	–	1,299.7
Montana												
September 1998	–	–	–	–	–	–	W	19.9	W	W	–	1,417.8
August 1998	–	–	–	–	–	–	W	22.6	–	1,596.8	–	1,596.8
September 1997	–	–	–	–	–	–	W	20.6	W	W	–	1,865.2
Utah												
September 1998	–	–	–	–	–	–	650.1	771.5	635.9	1,660.4	–	2,296.3
August 1998	–	–	–	–	–	–	681.4	800.2	581.2	1,798.9	–	2,380.1
September 1997	–	–	–	–	–	–	535.0	644.9	525.5	1,747.9	–	2,273.3
Wyoming												
September 1998	–	–	–	–	–	–	W	58.8	W	W	–	722.0
August 1998	–	–	–	–	–	–	W	67.5	W	W	–	817.0
September 1997	–	–	–	–	–	–	W	61.3	W	W	–	691.0
PAD District V												
September 1998	W	W	22,525.1	W	W	33,633.1	14,678.4	15,001.7	28,415.9	15,381.9	6,216.6	50,014.4
August 1998	W	W	W	W	3,632.8	33,715.0	13,960.8	14,228.8	29,169.9	15,886.8	6,028.3	51,085.0
September 1997	W	W	20,132.3	W	W	30,873.3	13,173.9	13,728.9	W	13,991.7	W	45,058.4
Alaska												
September 1998	–	–	–	–	–	–	288.0	310.4	W	412.8	W	540.1
August 1998	–	–	–	–	–	–	303.5	310.7	W	445.2	W	593.0
September 1997	–	–	–	–	–	–	253.8	271.0	W	W	–	484.0
Arizona												
September 1998	W	W	1,212.7	W	W	1,516.2	2,807.6	2,821.0	1,591.4	1,314.8	338.6	3,244.8
August 1998	W	W	W	W	–	1,498.7	2,688.2	2,699.0	1,594.1	1,279.5	243.0	3,116.6
September 1997	W	W	998.3	W	W	1,318.3	2,403.5	2,414.4	1,462.8	953.9	152.9	2,569.7
California												
September 1998	8,862.0	9,029.1	21,312.4	6,713.7	4,090.8	32,116.9	8,862.0	9,029.1	21,312.4	6,809.6	4,690.4	32,812.3
August 1998	8,369.1	8,503.6	21,893.6	W	W	32,216.3	8,369.1	8,503.6	21,893.6	6,784.7	4,698.3	33,376.6
September 1997	NA	NA	19,134.0	5,926.3	4,494.7	29,555.0	NA	NA	19,134.0	6,034.7	5,014.4	30,183.1
Hawaii												
September 1998	–	–	–	–	–	–	221.8	319.6	577.6	95.3	–	672.9
August 1998	–	–	–	–	–	–	226.9	323.6	580.9	86.8	–	667.7
September 1997	–	–	–	–	–	–	227.4	304.4	579.2	W	W	763.5
Nevada												
September 1998	–	–	–	–	–	–	214.7	223.7	W	837.9	W	2,110.1
August 1998	–	–	–	–	–	–	196.4	206.3	W	960.1	W	2,296.1
September 1997	–	–	–	–	–	–	199.8	208.3	1,056.8	744.7	NA	1,847.8
Oregon												
September 1998	–	–	–	–	–	–	605.3	615.2	1,096.5	2,228.3	542.9	3,867.7
August 1998	–	–	–	–	–	–	573.7	578.1	1,117.2	2,455.3	420.2	3,992.6
September 1997	–	–	–	–	–	–	586.0	603.4	856.6	2,073.3	264.9	3,194.8
Washington												
September 1998	–	–	–	–	–	–	1,679.1	1,682.7	2,630.5	3,683.3	452.6	6,766.4
August 1998	–	–	–	–	–	–	1,603.1	1,607.6	2,690.8	3,875.2	476.4	7,042.4
September 1997	–	–	–	–	–	–	1,684.4	1,694.5	2,064.2	3,723.8	227.4	6,015.5

Dash (–) = No data reported.
NA = Not available.
W = Withheld to avoid disclosure of individual company data.
[a] Includes sales through retail outlets as well as all direct sales to end users that were not made through company-operated retail outlets, e.g., sales to agricultural customers, commercial sales, and industrial sales.
Notes: Motor gasoline averages and totals prior to October 1993 include leaded gasoline.
Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual.*
Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

Table 45. Refiner Volumes of Aviation Fuels, Kerosene, No. 1 Distillate, and Propane (Consumer Grade) by PAD District and State

(Thousand Gallons per Day)

Geographic Area Month	Aviation Gasoline		Kerosene-Type Jet Fuel		Kerosene		No. 1 Distillate		Propane (Consumer Grade)	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
United States										
September 1998	165.3	684.3	48,015.1	10,708.7	331.2	1,424.4	NA	787.9	2,264.7	31,487.0
August 1998	168.0	700.6	51,501.0	12,352.6	602.3	917.1	NA	446.2	2,364.5	27,739.9
September 1997	179.3	721.5	51,061.2	10,619.5	298.0	1,883.2	226.4	876.9	3,130.2	32,440.7
PAD District I										
September 1998	61.9	132.4	11,936.8	2,286.8	96.9	476.7	2.5	W	48.5	4,520.9
August 1998	61.7	133.5	12,505.7	2,405.9	145.9	327.9	3.6	W	37.8	3,901.7
September 1997	66.5	116.0	13,347.6	1,897.3	58.7	981.2	4.1	W	126.4	4,592.8
Subdistrict IA										
September 1998	W	14.3	892.6	116.2	0.7	13.4	W	W	W	47.9
August 1998	W	NA	1,130.5	129.4	W	2.9	–	W	NA	49.5
September 1997	W	11.6	1,034.3	90.1	W	30.0	W	W	W	60.2
Connecticut										
September 1998	W	2.5	156.3	22.2	W	W	–	W	W	22.0
August 1998	W	2.4	NA	NA	–	W	–	W	–	14.9
September 1997	W	2.6	212.4	W	W	W	W	W	W	24.6
Maine										
September 1998	W	W	W	W	–	W	–	W	–	–
August 1998	W	–	W	W	–	W	–	W	–	W
September 1997	W	–	W	19.8	–	8.4	–	W	–	W
Massachusetts										
September 1998	W	W	645.8	82.8	–	W	–	–	–	W
August 1998	W	W	852.0	90.7	–	W	–	–	–	3.3
September 1997	W	W	698.0	51.7	–	W	–	–	–	W
New Hampshire										
September 1998	W	W	17.1	W	W	W	W	–	NA	18.6
August 1998	W	W	20.8	W	NA	W	–	–	NA	24.5
September 1997	W	W	23.8	W	W	W	–	–	–	21.7
Rhode Island										
September 1998	W	W	W	W	–	W	–	W	–	–
August 1998	W	NA	W	W	–	W	–	–	–	–
September 1997	W	W	26.4	1.6	–	W	–	W	–	W
Vermont										
September 1998	–	W	W	W	NA	–	–	W	NA	W
August 1998	–	W	W	W	W	–	–	–	NA	W
September 1997	W	–	W	W	–	W	–	W	–	3.4
Subdistrict IB										
September 1998	W	36.2	6,227.5	1,393.3	91.5	327.4	W	4.5	W	1,551.3
August 1998	W	36.2	6,387.5	1,370.5	141.2	255.5	W	2.8	3.0	1,367.5
September 1997	W	26.7	6,923.0	1,085.8	55.0	522.6	1.9	3.6	W	1,444.4
Delaware										
September 1998	W	W	W	W	–	W	–	–	–	W
August 1998	W	1.8	W	NA	–	W	–	–	–	W
September 1997	W	W	0.9	W	–	W	–	–	–	W
District of Columbia										
September 1998	–	–	–	W	–	–	–	–	–	–
August 1998	–	–	–	W	–	–	–	–	–	–
September 1997	–	–	–	W	–	–	–	–	–	–
Maryland										
September 1998	W	W	W	33.4	–	W	W	–	–	W
August 1998	W	W	317.1	W	W	W	W	–	W	W
September 1997	W	W	396.0	10.9	W	W	W	W	–	W
New Jersey										
September 1998	W	13.7	3,466.2	711.4	W	194.9	W	–	–	377.6
August 1998	W	W	3,376.1	715.2	W	189.4	NA	–	W	334.3
September 1997	W	10.6	3,801.7	418.3	W	176.5	–	W	–	320.4
New York										
September 1998	W	9.8	1,077.1	314.6	W	21.1	W	2.5	W	267.8
August 1998	W	8.2	W	276.5	W	9.8	W	0.9	W	216.7
September 1997	W	6.3	1,027.3	304.2	W	97.3	W	W	W	233.7
Pennsylvania										
September 1998	5.6	9.8	1,299.1	289.9	3.6	100.6	W	2.1	W	657.6
August 1998	7.2	8.2	1,616.9	268.2	2.6	52.7	W	1.9	W	615.3
September 1997	6.6	8.0	1,697.1	314.3	7.0	169.2	W	1.6	W	677.5

See footnotes at end of table.

Table 45. Refiner Volumes of Aviation Fuels, Kerosene, No. 1 Distillate, and Propane (Consumer Grade) by PAD District and State

(Thousand Gallons per Day) — Continued

Geographic Area Month	Aviation Gasoline		Kerosene-Type Jet Fuel		Kerosene		No. 1 Distillate		Propane (Consumer Grade)	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
Subdistrict IC										
September 1998	36.9	81.9	4,816.7	777.3	4.7	135.9	–	32.6	42.7	2,921.7
August 1998	33.5	81.5	4,987.7	906.0	W	69.4	W	21.4	33.3	2,484.7
September 1997	38.4	77.7	5,390.4	721.4	W	428.6	W	W	124.8	3,088.1
Florida										
September 1998	20.9	31.0	2,075.6	183.9	W	41.3	–	–	W	476.5
August 1998	17.9	35.5	2,243.7	317.0	W	10.9	–	–	W	505.2
September 1997	19.9	35.7	2,623.7	214.9	W	18.2	W	–	W	520.7
Georgia										
September 1998	3.1	20.3	1,141.2	325.2	0.2	W	–	W	W	577.1
August 1998	W	18.6	1,151.0	346.3	W	W	–	W	W	437.4
September 1997	4.2	16.7	1,081.7	309.1	0.2	18.7	–	–	W	530.8
North Carolina										
September 1998	W	18.2	645.7	125.2	W	34.0	–	W	18.6	992.2
August 1998	W	15.2	568.0	108.6	W	17.3	W	W	W	867.6
September 1997	W	18.4	596.2	88.5	0.3	169.0	–	W	75.6	1,170.3
South Carolina										
September 1998	W	4.8	W	W	0.3	15.5	–	W	–	W
August 1998	W	W	W	W	0.3	6.0	–	W	W	366.3
September 1997	2.8	4.8	W	32.4	0.3	85.6	–	–	W	555.8
Virginia										
September 1998	W	5.3	841.9	102.6	W	38.8	–	14.2	W	484.7
August 1998	W	5.9	908.3	91.7	W	30.8	–	12.7	W	W
September 1997	W	W	993.0	69.7	W	127.4	–	W	W	244.2
West Virginia										
September 1998	W	2.3	W	W	W	W	–	–	–	W
August 1998	W	W	W	W	W	W	–	–	–	W
September 1997	W	W	W	6.8	0.7	9.7	W	–	W	66.3
PAD District II										
September 1998	32.0	163.9	7,840.3	1,225.2	W	207.9	NA	408.2	530.2	10,290.8
August 1998	34.1	178.3	8,777.5	1,535.7	59.6	89.5	NA	210.7	395.8	8,379.8
September 1997	35.9	245.1	8,670.3	1,266.7	W	486.4	W	547.6	683.9	10,549.6
Illinois										
September 1998	W	14.9	2,048.4	114.9	W	W	W	29.2	W	1,300.7
August 1998	W	W	1,917.8	75.2	W	14.1	W	15.3	W	975.1
September 1997	W	W	1,985.6	72.5	2.7	96.8	W	22.5	W	1,360.9
Indiana										
September 1998	W	9.8	794.7	NA	W	9.8	NA	16.7	W	513.4
August 1998	W	11.5	1,007.1	NA	W	13.3	W	8.5	W	370.3
September 1997	W	21.0	1,065.5	67.2	W	52.8	W	15.7	W	470.9
Iowa										
September 1998	W	17.6	NA	28.1	–	NA	NA	49.4	W	441.9
August 1998	W	17.6	NA	29.1	–	–	NA	18.5	W	359.7
September 1997	W	12.8	36.9	31.1	–	4.0	W	44.8	W	315.3
Kansas										
September 1998	W	W	122.8	18.5	–	NA	W	63.2	W	3,438.9
August 1998	W	W	156.0	19.9	–	3.0	NA	15.6	W	3,146.4
September 1997	W	W	143.9	31.4	–	4.1	–	61.8	W	3,629.2
Kentucky										
September 1998	W	W	529.6	32.5	0.3	15.3	–	W	W	461.2
August 1998	W	W	583.8	30.0	0.2	7.2	–	W	W	474.4
September 1997	1.7	W	454.7	87.6	0.4	44.6	–	W	W	460.8
Michigan										
September 1998	W	5.4	624.2	126.1	1.6	17.1	W	24.6	W	915.3
August 1998	1.3	W	682.5	155.7	0.3	W	W	18.1	W	536.4
September 1997	0.8	34.6	861.8	83.1	0.8	55.8	W	14.1	W	623.7
Minnesota										
September 1998	W	W	624.4	131.2	W	5.8	W	48.3	85.6	NA
August 1998	W	W	1,167.7	140.1	W	3.2	W	28.8	61.6	440.8
September 1997	W	NA	1,094.4	107.6	W	14.1	W	105.1	124.9	641.6
Missouri										
September 1998	W	12.7	367.8	67.5	–	W	NA	8.1	W	651.0
August 1998	W	W	363.7	59.5	–	1.0	NA	5.7	W	458.8
September 1997	W	W	272.5	114.5	–	W	W	12.1	W	798.2

See footnotes at end of table.

Table 45. Refiner Volumes of Aviation Fuels, Kerosene, No. 1 Distillate, and Propane (Consumer Grade) by PAD District and State

(Thousand Gallons per Day) — Continued

Geographic Area Month	Aviation Gasoline		Kerosene-Type Jet Fuel		Kerosene		No. 1 Distillate		Propane (Consumer Grade)	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
Nebraska										
September 1998	W	W	94.0	19.8	–	–	W	21.6	–	NA
August 1998	W	W	94.5	17.3	–	–	NA	10.0	–	180.3
September 1997	W	W	86.8	27.4	–	W	–	35.7	–	241.0
North Dakota										
September 1998	W	W	12.1	8.3	–	–	NA	20.7	W	NA
August 1998	W	W	NA	NA	–	–	NA	10.5	W	162.2
September 1997	W	W	13.1	W	–	W	W	39.8	W	168.0
Ohio										
September 1998	10.9	33.1	1,158.7	190.1	W	44.1	W	27.8	W	535.2
August 1998	10.4	42.0	1,174.9	351.5	W	23.3	W	21.6	W	274.8
September 1997	W	46.8	1,116.6	243.7	7.6	107.0	W	10.0	W	531.0
Oklahoma										
September 1998	4.4	6.3	349.0	273.5	–	W	–	1.5	W	443.2
August 1998	W	5.0	343.0	417.8	–	W	–	1.9	W	440.1
September 1997	6.3	6.2	396.2	263.8	–	W	W	W	13.5	467.6
South Dakota										
September 1998	W	6.8	19.6	11.0	–	NA	W	22.4	W	NA
August 1998	W	8.8	21.8	11.7	–	W	NA	11.4	W	73.5
September 1997	W	7.8	17.7	W	–	W	W	36.6	W	103.7
Tennessee										
September 1998	W	17.4	886.4	80.5	W	34.2	–	W	W	214.0
August 1998	W	19.9	1,017.1	77.7	W	19.2	–	W	W	215.9
September 1997	W	19.3	955.3	60.2	W	89.7	–	–	W	320.7
Wisconsin										
September 1998	W	W	121.4	43.6	W	2.5	W	56.9	60.7	NA
August 1998	–	W	140.7	50.5	–	1.0	W	34.4	44.4	271.1
September 1997	–	14.2	169.3	56.3	W	7.5	W	76.6	81.5	417.1
PAD District III										
September 1998	24.5	110.8	10,772.2	4,007.8	W	687.2	–	W	1,647.7	13,619.0
August 1998	22.9	133.4	12,152.2	5,049.7	W	475.2	–	W	1,896.2	12,624.0
September 1997	25.1	111.3	11,497.8	4,529.2	3.0	353.7	–	W	2,211.4	14,282.7
Alabama										
September 1998	W	6.0	148.0	42.4	W	8.2	–	–	W	341.9
August 1998	2.6	7.9	152.0	45.0	W	4.2	–	–	W	215.8
September 1997	W	8.0	131.1	41.6	W	11.1	–	–	W	305.4
Arkansas										
September 1998	W	10.6	88.0	47.3	–	W	–	–	W	183.4
August 1998	W	W	86.6	51.6	–	W	–	–	W	95.8
September 1997	W	W	79.1	50.5	–	W	–	–	W	221.8
Louisiana										
September 1998	2.7	5.7	2,330.4	943.6	W	389.5	–	–	155.1	1,260.9
August 1998	W	9.9	2,449.8	1,105.7	W	W	–	–	174.2	1,047.9
September 1997	3.0	9.6	2,971.6	1,088.1	W	101.9	–	–	965.7	1,136.5
Mississippi										
September 1998	W	W	534.7	332.3	W	W	–	–	W	497.2
August 1998	W	7.7	619.5	294.7	W	W	–	–	W	686.5
September 1997	W	W	873.0	191.4	W	4.5	–	–	W	378.9
New Mexico										
September 1998	W	W	149.2	24.4	–	W	–	3.4	W	331.0
August 1998	W	W	155.0	28.9	–	W	–	2.0	W	342.4
September 1997	W	W	122.9	NA	–	W	–	1.7	W	412.3
Texas										
September 1998	11.9	73.3	7,521.9	2,617.8	W	151.3	–	W	1,375.2	11,004.5
August 1998	9.3	87.3	8,689.3	3,523.7	W	12.7	–	W	1,647.2	10,235.6
September 1997	11.4	65.9	7,320.2	3,131.9	W	233.1	–	W	1,136.2	11,827.8
PAD District IV										
September 1998	16.8	32.4	1,271.1	187.6	–	1.0	NA	78.8	23.4	912.2
August 1998	18.2	32.7	1,551.0	161.5	–	W	NA	50.3	21.1	863.1
September 1997	14.0	24.8	1,503.5	206.5	–	7.4	W	76.0	28.8	1,040.3
Colorado										
September 1998	W	W	483.6	136.5	–	NA	W	20.3	W	259.1
August 1998	W	W	635.9	123.1	–	–	W	16.4	W	218.5
September 1997	W	W	659.9	W	–	6.1	W	23.7	W	277.8

See footnotes at end of table.

Table 45. Refiner Volumes of Aviation Fuels, Kerosene, No. 1 Distillate, and Propane (Consumer Grade) by PAD District and State

(Thousand Gallons per Day) — Continued

Geographic Area Month	Aviation Gasoline		Kerosene-Type Jet Fuel		Kerosene		No. 1 Distillate		Propane (Consumer Grade)	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
Idaho										
September 1998	–	W	59.3	11.9	–	W	W	10.3	W	W
August 1998	W	W	69.4	12.4	–	–	NA	11.7	7.7	W
September 1997	W	W	64.7	13.4	–	W	W	8.1	W	W
Montana										
September 1998	W	W	77.3	9.2	–	–	W	23.0	W	190.7
August 1998	W	–	83.9	W	–	–	W	10.0	W	196.8
September 1997	W	–	74.6	5.1	–	W	W	24.1	W	215.3
Utah										
September 1998	W	6.7	571.0	26.8	–	W	W	NA	W	W
August 1998	W	6.5	735.9	16.6	–	W	W	NA	W	W
September 1997	W	6.7	689.8	18.5	–	W	–	3.9	W	W
Wyoming										
September 1998	W	W	80.0	3.2	–	W	1.1	17.1	W	304.8
August 1998	W	W	25.9	W	–	–	W	7.9	W	296.1
September 1997	W	W	14.5	W	–	–	1.5	16.1	W	422.3
PAD District V										
September 1998	30.1	244.8	16,194.7	3,001.4	W	51.6	126.0	234.2	14.9	2,144.2
August 1998	31.1	222.7	16,514.6	3,199.7	W	W	100.2	132.1	13.6	1,971.3
September 1997	37.8	224.3	16,041.9	2,719.8	W	NA	104.4	217.8	79.8	1,975.3
Alaska										
September 1998	W	98.2	2,151.2	316.2	W	–	W	208.3	1.7	W
August 1998	W	60.7	2,194.3	295.3	W	–	W	116.2	1.8	W
September 1997	W	72.9	2,622.6	396.2	–	W	W	193.7	W	W
Arizona										
September 1998	W	13.9	625.4	100.5	–	W	–	W	–	76.0
August 1998	W	13.6	774.0	165.3	–	W	–	W	–	120.9
September 1997	W	12.1	662.1	W	–	W	–	–	–	102.0
California										
September 1998	13.7	82.3	10,135.2	1,850.9	–	24.0	–	–	W	1,432.9
August 1998	13.2	88.7	9,887.7	1,868.6	–	14.5	–	–	W	1,324.0
September 1997	13.5	85.1	9,449.8	1,314.8	–	NA	–	–	W	1,244.5
Hawaii										
September 1998	–	W	W	W	–	–	–	–	–	W
August 1998	–	W	469.8	W	–	–	–	–	–	W
September 1997	–	W	468.0	W	–	–	–	–	W	W
Nevada										
September 1998	W	12.5	662.0	79.9	–	–	–	–	–	101.7
August 1998	W	12.1	584.1	74.5	–	W	–	–	W	71.0
September 1997	W	14.3	628.6	76.0	–	W	–	–	W	W
Oregon										
September 1998	W	W	W	W	–	W	–	W	NA	53.8
August 1998	W	W	643.4	W	–	W	–	W	W	W
September 1997	W	W	524.4	55.7	W	NA	–	NA	W	W
Washington										
September 1998	W	W	1,648.3	94.9	–	W	W	25.3	W	394.7
August 1998	W	W	1,961.4	129.1	–	3.3	W	14.0	W	336.7
September 1997	W	W	1,686.5	160.7	–	17.0	W	18.5	W	477.8

Dash (–) = No data reported.
NA = Not available.
W = Withheld to avoid disclosure of individual company data.
Notes: PAD District and U.S. totals equal the sum of the volumes for all States. In certain PAD Districts, however, volumes are not shown for every State.
Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual.*
Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

Table 46. Refiner No. 2 Distillate, Diesel Fuel, and Fuel Oil Volumes by PAD District and State

(Thousand Gallons per Day)

Geographic Area Month	No. 2 Diesel Fuel						No. 2 Fuel Oil		No. 2 Distillate	
	Low-Sulfur		High-Sulfur		Total					
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
United States										
September 1998	14,972.8	82,233.9	7,179.3	14,437.8	22,152.1	96,671.7	3,923.2	20,984.7	26,075.3	117,656.4
August 1998	14,390.9	80,697.0	6,856.5	14,147.2	21,247.5	94,844.2	3,730.0	20,932.1	24,977.4	115,776.3
September 1997	15,454.1	80,481.8	7,727.3	14,000.5	23,181.4	94,482.3	2,932.4	26,975.9	26,113.7	121,458.2
PAD District I										
September 1998	4,243.9	17,314.3	1,023.8	3,092.9	5,267.7	20,407.2	1,047.4	11,759.8	6,315.1	32,167.1
August 1998	4,399.5	18,276.7	1,135.5	2,352.0	5,535.0	20,628.7	1,263.2	10,649.5	6,798.2	31,278.3
September 1997	4,594.2	17,639.9	1,320.3	2,436.7	5,914.5	20,076.6	824.3	14,759.0	6,738.7	34,835.7
Subdistrict IA										
September 1998	W	W	W	W	310.3	1,285.5	31.7	1,493.2	342.1	2,778.7
August 1998	W	W	W	W	306.5	1,402.3	27.1	936.2	333.6	2,338.5
September 1997	W	W	W	W	426.9	2,055.5	23.8	1,654.6	450.7	3,710.2
Connecticut										
September 1998	W	W	–	W	W	368.0	W	429.6	145.0	797.6
August 1998	W	W	–	W	W	373.6	W	320.8	137.8	694.5
September 1997	W	W	–	W	W	574.8	W	472.9	154.0	1,047.7
Maine										
September 1998	W	W	W	W	13.0	167.1	–	232.2	13.0	399.3
August 1998	W	W	W	W	11.3	178.4	–	167.1	11.3	345.5
September 1997	W	W	W	W	W	446.8	W	232.7	11.2	679.5
Massachusetts										
September 1998	102.4	W	W	W	W	472.8	W	463.1	128.3	935.9
August 1998	W	W	W	W	127.1	540.4	4.9	222.9	132.0	763.3
September 1997	W	W	W	W	227.5	784.4	6.4	317.6	233.9	1,102.0
New Hampshire										
September 1998	W	21.5	W	W	9.1	W	NA	W	10.9	W
August 1998	W	18.6	W	W	10.8	W	NA	W	12.2	45.4
September 1997	9.1	27.8	W	W	W	W	W	W	10.9	44.8
Rhode Island										
September 1998	W	W	–	W	W	242.5	W	323.8	25.2	566.3
August 1998	W	W	–	W	W	278.7	W	200.4	21.0	479.1
September 1997	26.8	W	–	W	26.8	201.6	–	606.2	26.8	807.8
Vermont										
September 1998	W	8.4	W	W	13.4	W	NA	W	19.7	W
August 1998	W	9.1	W	W	13.8	W	NA	W	19.2	10.8
September 1997	10.7	14.5	W	W	W	W	W	W	14.0	28.4
Subdistrict IB										
September 1998	W	W	W	W	1,682.6	8,655.2	411.5	8,296.6	2,094.1	16,951.8
August 1998	W	W	W	W	1,591.3	8,375.8	527.7	7,444.9	2,119.1	15,820.6
September 1997	W	W	W	W	1,881.6	7,506.5	452.3	10,337.7	2,333.9	17,844.2
Delaware										
September 1998	22.6	W	–	–	22.6	W	NA	W	39.9	285.4
August 1998	18.7	W	W	–	W	W	NA	W	W	259.8
September 1997	31.5	W	W	–	W	W	W	W	W	W
District of Columbia										
September 1998	NA	20.6	–	–	NA	20.6	–	NA	NA	NA
August 1998	W	W	–	–	W	W	–	W	W	33.5
September 1997	W	W	–	–	W	W	W	W	W	W
Maryland										
September 1998	W	W	W	16.1	215.8	W	71.8	W	287.6	867.4
August 1998	W	504.6	W	30.9	208.4	535.5	76.9	215.9	285.3	751.4
September 1997	W	533.4	W	29.4	306.1	562.7	132.8	346.1	438.8	908.8
New Jersey										
September 1998	370.7	2,370.2	115.7	1,203.5	486.4	3,573.7	137.7	3,762.8	624.1	7,336.5
August 1998	358.5	W	91.5	W	450.0	3,216.3	132.1	3,631.2	582.0	6,847.5
September 1997	365.6	2,485.0	156.1	84.1	521.7	2,569.1	96.7	5,269.0	618.4	7,838.1
New York										
September 1998	280.1	W	92.1	W	372.2	1,260.6	86.2	2,078.0	458.4	3,338.5
August 1998	W	W	W	W	369.8	1,224.4	65.9	1,663.2	435.7	2,887.6
September 1997	240.1	W	14.5	W	254.6	1,173.5	88.4	2,432.1	343.0	3,605.6
Pennsylvania										
September 1998	557.9	W	24.4	W	582.3	2,956.3	98.5	2,123.6	680.8	5,079.8
August 1998	516.2	3,164.4	23.8	12.4	540.0	3,176.7	236.1	1,864.1	776.1	5,040.9
September 1997	634.6	2,746.4	128.1	235.5	762.7	2,981.9	88.5	2,212.0	851.2	5,193.9

See footnotes at end of table.

Table 46. Refiner No. 2 Distillate, Diesel Fuel, and Fuel Oil Volumes by PAD District and State

(Thousand Gallons per Day) — Continued

Geographic Area Month	No. 2 Diesel Fuel						No. 2 Fuel Oil		No. 2 Distillate	
	Low-Sulfur		High-Sulfur		Total					
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
Subdistrict IC										
September 1998	2,512.3	8,902.5	762.4	1,564.0	3,274.7	10,466.5	604.2	1,970.0	3,878.9	12,436.6
August 1998	2,746.5	9,282.0	890.6	1,568.7	3,637.1	10,850.6	708.4	2,268.5	4,345.5	13,119.1
September 1997	2,694.3	8,978.1	911.7	1,536.5	3,606.0	10,514.6	348.2	2,766.7	3,954.1	13,281.3
Florida										
September 1998	1,003.2	2,194.3	227.5	477.3	1,230.7	2,671.6	74.1	418.6	1,304.8	3,090.2
August 1998	1,208.6	2,379.4	400.1	562.1	1,608.7	2,941.5	112.3	418.9	1,721.0	3,360.4
September 1997	W	2,152.0	240.3	537.9	W	2,689.9	W	532.6	1,382.7	3,222.5
Georgia										
September 1998	666.7	1,938.8	176.3	355.9	842.9	2,294.7	53.8	253.0	896.7	2,547.7
August 1998	631.1	1,935.4	161.8	331.7	792.9	2,267.1	34.7	614.9	827.6	2,882.0
September 1997	662.1	1,941.5	155.0	276.6	817.2	2,218.1	24.3	451.2	841.5	2,669.3
North Carolina										
September 1998	310.3	1,771.6	125.0	333.7	435.3	2,105.4	164.3	412.3	599.6	2,517.7
August 1998	368.9	1,908.1	98.1	336.8	467.0	2,244.9	209.1	402.3	676.1	2,647.2
September 1997	330.0	1,809.0	133.5	362.9	463.5	2,171.9	96.7	570.4	560.2	2,742.3
South Carolina										
September 1998	241.5	972.3	W	121.1	W	1,093.4	W	202.8	337.3	1,296.2
August 1998	258.7	987.3	W	124.2	W	1,111.5	W	185.9	350.0	1,297.4
September 1997	W	873.3	W	W	279.5	W	26.5	W	306.0	1,236.2
Virginia										
September 1998	210.6	1,796.1	141.9	193.6	352.4	1,989.7	169.3	530.6	521.7	2,520.4
August 1998	202.6	1,865.8	143.7	144.5	346.3	2,010.3	127.8	477.2	474.2	2,487.5
September 1997	320.7	1,824.3	193.6	199.2	514.4	2,023.5	50.2	701.4	564.5	2,725.0
West Virginia										
September 1998	80.1	229.3	W	82.4	W	311.7	W	152.7	218.7	464.4
August 1998	76.7	206.1	W	69.4	W	275.5	W	169.3	296.6	444.8
September 1997	99.8	378.0	W	W	W	W	W	W	299.2	686.0
PAD District II										
September 1998	6,094.3	26,291.5	2,426.1	2,966.6	8,520.4	29,258.1	2,394.5	5,141.3	10,914.9	34,399.3
August 1998	5,368.4	24,640.8	2,085.5	2,545.8	7,453.9	27,186.6	2,013.6	5,172.0	9,467.5	32,358.6
September 1997	5,764.7	25,161.8	2,076.7	3,023.0	7,841.4	28,184.8	1,617.9	7,412.1	9,459.3	35,596.9
Illinois										
September 1998	930.3	2,887.1	153.4	165.4	1,083.7	3,052.4	NA	1,035.4	1,464.0	4,087.9
August 1998	603.8	2,847.5	172.3	124.9	776.1	2,972.4	371.1	1,410.8	1,147.2	4,383.3
September 1997	611.5	2,125.8	75.8	149.0	687.3	2,274.8	206.0	1,952.9	893.3	4,227.7
Indiana										
September 1998	1,064.9	2,562.5	W	303.3	W	2,865.8	W	479.9	1,349.4	3,345.7
August 1998	966.4	2,117.0	W	219.0	W	2,336.0	W	490.8	1,192.7	2,826.8
September 1997	925.6	1,986.8	153.5	284.2	1,079.1	2,271.0	359.1	560.3	1,438.2	2,831.3
Iowa										
September 1998	NA	1,603.0	W	133.5	W	1,736.4	W	212.5	NA	1,949.0
August 1998	W	1,423.5	W	74.7	NA	1,498.1	NA	112.5	W	1,610.6
September 1997	157.5	1,775.3	W	72.3	W	1,847.6	W	191.1	209.5	2,038.7
Kansas										
September 1998	171.8	2,020.0	W	NA	W	2,158.6	W	116.6	NA	2,275.3
August 1998	138.5	1,700.7	W	118.6	W	1,819.3	W	128.4	250.1	1,947.7
September 1997	152.7	1,796.8	W	305.5	W	2,102.3	W	288.0	319.9	2,390.2
Kentucky										
September 1998	343.5	1,193.0	92.6	228.0	436.1	1,421.0	265.3	483.1	701.4	1,904.1
August 1998	337.8	1,121.1	94.2	209.4	432.0	1,330.5	226.5	414.1	658.5	1,744.5
September 1997	387.0	1,033.5	323.7	160.7	710.7	1,194.2	77.1	553.4	787.8	1,747.7
Michigan										
September 1998	534.5	1,637.3	131.6	47.6	666.0	1,684.8	63.6	447.1	729.6	2,132.0
August 1998	512.5	1,540.6	104.7	44.7	617.3	1,585.3	78.2	411.2	695.5	1,996.5
September 1997	554.2	W	89.8	W	644.0	1,799.4	70.6	745.5	714.5	2,544.9
Minnesota										
September 1998	W	1,477.7	W	328.3	167.1	1,806.0	NA	336.1	W	2,142.1
August 1998	W	1,355.7	W	245.5	162.9	1,601.2	NA	273.4	411.3	1,874.6
September 1997	178.8	1,640.8	18.6	279.0	197.4	1,919.8	123.1	427.7	320.4	2,347.5
Missouri										
September 1998	W	1,798.5	15.9	143.7	W	1,942.2	W	117.0	293.0	2,059.2
August 1998	202.0	1,645.8	W	132.9	W	1,778.7	W	114.1	252.8	1,892.8
September 1997	239.6	W	W	115.5	W	W	W	W	270.3	2,180.8

See footnotes at end of table.

Table 46. Refiner No. 2 Distillate, Diesel Fuel, and Fuel Oil Volumes by PAD District and State

(Thousand Gallons per Day) — Continued

Geographic Area Month	No. 2 Diesel Fuel						No. 2 Fuel Oil		No. 2 Distillate	
	Low-Sulfur		High-Sulfur		Total					
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
Nebraska										
September 1998	W	1,144.0	W	NA	436.4	1,362.6	NA	91.7	438.5	1,454.3
August 1998	W	998.1	W	217.7	173.6	1,215.8	NA	72.8	175.4	1,288.6
September 1997	30.8	974.2	W	127.5	W	1,101.7	W	83.7	183.8	1,185.3
North Dakota										
September 1998	W	NA	–	NA	W	NA	NA	58.0	W	NA
August 1998	W	631.6	–	NA	W	696.3	NA	NA	W	744.8
September 1997	17.5	737.7	–	W	17.5	W	W	W	W	956.3
Ohio										
September 1998	1,372.3	2,067.6	W	288.2	W	2,355.8	W	922.9	2,083.3	3,278.6
August 1998	1,294.0	2,073.1	W	204.5	W	2,277.6	W	921.1	1,990.5	3,198.7
September 1997	W	2,112.1	W	268.9	1,839.7	2,381.0	65.4	1,052.9	1,905.2	3,433.9
Oklahoma										
September 1998	167.5	2,612.5	W	W	W	W	W	W	1,358.8	2,879.2
August 1998	162.0	2,854.7	W	W	W	W	W	W	1,146.0	3,218.1
September 1997	239.1	3,056.8	W	342.9	W	3,399.7	W	133.0	919.7	3,532.7
South Dakota										
September 1998	W	622.0	–	W	W	W	W	W	28.0	682.2
August 1998	W	540.9	–	W	W	W	W	W	16.8	574.9
September 1997	9.0	763.8	W	16.6	W	780.4	W	56.9	W	837.3
Tennessee										
September 1998	614.3	2,277.0	265.7	432.5	880.1	2,709.5	NA	281.6	904.4	2,991.1
August 1998	550.9	2,116.4	W	419.5	W	2,535.8	W	298.4	839.7	2,834.2
September 1997	595.8	1,887.4	249.9	464.9	845.7	2,352.3	32.2	586.1	877.9	2,938.4
Wisconsin										
September 1998	W	1,726.8	W	213.8	284.3	1,940.6	NA	484.2	318.5	2,424.8
August 1998	W	1,674.0	W	175.9	266.4	1,850.0	NA	372.4	293.2	2,222.3
September 1997	W	1,759.2	–	175.4	W	1,934.7	W	469.5	392.1	2,404.2
PAD District III										
September 1998	1,576.3	20,490.7	1,831.5	5,904.5	3,407.8	26,395.2	178.6	3,632.4	3,586.4	30,027.6
August 1998	1,570.5	19,915.7	1,893.8	6,596.5	3,464.3	26,512.2	174.6	4,842.7	3,638.9	31,354.9
September 1997	2,007.5	21,429.4	2,253.1	6,007.5	4,260.6	27,436.9	302.4	4,376.8	4,563.0	31,813.7
Alabama										
September 1998	197.0	1,257.2	206.3	171.7	403.3	1,429.0	38.3	248.6	441.6	1,677.6
August 1998	193.2	1,262.2	147.0	175.7	340.2	1,437.9	27.6	260.9	367.8	1,698.9
September 1997	194.0	1,152.7	141.5	334.8	335.5	1,487.4	22.6	360.7	358.1	1,848.1
Arkansas										
September 1998	197.2	1,261.3	W	608.9	W	1,870.2	W	NA	239.1	1,936.1
August 1998	185.4	1,275.7	W	756.4	W	2,032.1	W	NA	208.1	2,125.4
September 1997	233.0	1,301.0	W	624.2	W	1,925.2	W	110.4	285.3	2,035.6
Louisiana										
September 1998	W	1,573.8	430.1	2,407.5	W	3,981.3	W	627.3	620.5	4,608.6
August 1998	W	1,789.0	460.1	3,117.6	W	4,906.6	W	1,405.3	668.4	6,311.9
September 1997	W	1,815.6	504.5	2,780.4	W	4,596.0	W	1,445.4	668.3	6,041.4
Mississippi										
September 1998	W	1,392.4	W	503.2	W	1,895.6	W	209.3	204.7	2,104.8
August 1998	132.9	1,280.2	W	536.7	W	1,816.8	W	166.7	214.6	1,983.5
September 1997	131.9	1,264.3	W	538.1	W	1,802.4	W	213.7	207.9	2,016.1
New Mexico										
September 1998	109.7	834.2	–	98.5	109.7	932.7	–	–	109.7	932.7
August 1998	W	904.8	W	94.1	110.5	998.9	–	–	110.5	998.9
September 1997	W	834.0	W	88.6	148.7	922.7	–	–	148.7	922.7
Texas										
September 1998	782.9	14,171.7	1,117.7	2,114.8	1,900.6	16,286.5	NA	2,481.3	1,970.7	18,767.8
August 1998	W	13,403.8	1,227.9	1,916.0	W	15,319.8	W	2,916.5	2,069.4	18,236.3
September 1997	1,189.4	15,061.7	1,447.6	1,641.5	2,637.0	16,703.2	257.6	2,246.6	2,894.6	18,949.9
PAD District IV										
September 1998	939.0	4,309.4	523.5	357.3	1,462.6	4,666.7	NA	NA	1,603.6	4,675.4
August 1998	995.3	4,261.7	480.9	463.4	1,476.2	4,725.1	NA	NA	1,608.1	4,733.4
September 1997	857.0	4,046.0	W	W	W	W	W	W	1,524.4	4,434.1
Colorado										
September 1998	W	W	W	W	340.3	1,346.4	NA	NA	340.8	1,355.0
August 1998	W	W	W	W	295.3	1,381.0	NA	NA	295.8	1,389.3
September 1997	146.0	1,315.6	W	W	W	W	W	W	332.2	1,341.1

See footnotes at end of table.

Table 46. Refiner No. 2 Distillate, Diesel Fuel, and Fuel Oil Volumes by PAD District and State

(Thousand Gallons per Day) — Continued

Geographic Area Month	No. 2 Diesel Fuel						No. 2 Fuel Oil		No. 2 Distillate	
	Low-Sulfur		High-Sulfur		Total					
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
Idaho										
September 1998	W	604.6	W	160.5	109.0	765.1	NA	–	112.1	765.1
August 1998	W	610.4	W	191.1	136.5	801.5	NA	–	139.4	801.5
September 1997	W	536.8	W	162.0	W	698.8	W	–	116.8	698.8
Montana										
September 1998	161.2	W	–	W	161.2	702.2	NA	–	161.6	702.2
August 1998	165.8	W	–	W	165.8	728.5	NA	–	166.2	728.5
September 1997	175.6	W	–	W	175.6	778.2	–	–	175.6	778.2
Utah										
September 1998	306.1	830.2	30.2	168.7	336.3	998.9	NA	–	473.3	998.9
August 1998	332.1	830.9	NA	231.0	364.1	1,061.9	NA	–	492.1	1,061.9
September 1997	243.1	615.9	W	190.5	W	806.3	W	–	351.1	806.3
Wyoming										
September 1998	W	W	W	W	515.9	854.1	–	–	515.9	854.1
August 1998	W	W	W	W	514.5	752.1	–	–	514.5	752.1
September 1997	W	W	W	W	548.7	809.7	–	–	548.7	809.7
PAD District V										
September 1998	2,119.3	13,828.0	1,374.4	2,116.4	3,493.7	15,944.4	161.7	442.6	3,655.4	16,387.0
August 1998	2,057.3	13,602.1	1,260.7	2,189.5	3,318.0	15,791.6	146.7	259.5	3,464.7	16,051.1
September 1997	2,230.8	12,204.8	W	W	W	W	W	W	3,828.3	14,777.8
Alaska										
September 1998	W	W	W	W	206.9	W	W	W	361.5	665.9
August 1998	W	W	W	W	143.6	W	W	W	277.3	563.3
September 1997	W	NA	W	W	W	W	82.6	404.5	174.9	688.2
Arizona										
September 1998	W	W	W	W	361.7	999.5	–	–	361.7	999.5
August 1998	241.5	W	116.6	W	358.1	929.1	–	–	358.1	929.1
September 1997	W	W	W	W	395.5	879.3	–	–	395.5	879.3
California										
September 1998	W	9,279.6	W	W	1,647.6	W	–	W	1,647.6	9,858.1
August 1998	W	9,110.0	W	375.4	1,575.0	9,485.4	–	–	1,575.0	9,485.4
September 1997	W	8,160.7	W	W	1,674.1	W	–	W	1,674.1	8,608.4
Hawaii										
September 1998	40.6	56.5	W	90.6	W	147.1	–	–	W	147.1
August 1998	37.6	50.8	W	88.1	W	138.9	–	–	W	138.9
September 1997	W	50.9	W	NA	W	128.6	–	–	W	128.6
Nevada										
September 1998	W	576.0	W	4.8	82.7	580.8	–	–	82.7	580.8
August 1998	W	506.6	W	6.0	85.1	512.5	–	–	W	512.5
September 1997	W	W	W	W	86.0	448.4	–	–	W	448.4
Oregon										
September 1998	47.3	1,055.8	NA	472.3	NA	1,528.1	–	–	W	1,528.1
August 1998	W	1,042.8	W	524.5	174.7	1,567.4	–	–	174.7	1,567.4
September 1997	W	915.4	W	442.7	336.6	1,358.0	–	–	336.6	1,358.0
Washington										
September 1998	99.8	W	W	710.9	W	W	W	W	545.6	2,607.6
August 1998	114.1	W	W	827.6	W	W	W	W	635.4	2,854.4
September 1997	108.9	1,872.1	W	788.3	W	2,660.4	W	6.4	833.5	2,666.8

Dash (–) = No data reported.
NA = Not available.
W = Withheld to avoid disclosure of individual company data.
Notes: PAD District and U.S. totals equal the sum of the volumes for all States. In certain PAD Districts, however, volumes are not shown for every State.
Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual.*
Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

Table 47. Refiner Residual Fuel Oil and No. 4 Fuel Volumes by PAD District

(Thousand Gallons per Day)

Geographic Area Month	Residual Fuel Oil						No. 4 Fuel[a]	
	Sulfur Less Than or Equal to 1 Percent		Sulfur Greater Than 1 Percent		Total		Sales to End Users	Sales for Resale
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale		
United States								
September 1998 ..	3,204.8	5,268.7	9,775.0	12,167.6	12,979.8	17,436.4	254.2	111.3
August 1998	4,754.9	7,247.0	13,008.3	9,233.2	17,763.2	16,480.3	385.3	28.6
September 1997 ..	2,565.7	4,989.9	10,346.8	6,859.0	12,912.4	11,848.9	201.6	60.7
PAD District I								
September 1998 ..	2,149.5	3,454.5	4,371.3	5,160.3	6,520.8	8,614.8	W	31.2
August 1998	3,969.1	4,958.5	8,053.3	3,742.4	12,022.4	8,700.9	W	25.0
September 1997 ..	1,393.8	3,904.3	3,682.1	2,067.0	5,075.9	5,971.3	W	42.6
Subdistrict IA								
September 1998 ..	W	W	W	W	W	W	W	W
August 1998	W	W	W	W	W	W	W	W
September 1997 ..	W	W	W	W	W	493.9	W	W
Subdistrict IB								
September 1998 ..	1,968.0	W	2,185.0	W	4,153.0	3,280.1	W	W
August 1998	3,501.1	2,289.9	4,860.7	767.8	8,361.8	3,057.6	W	22.0
September 1997 ..	W	2,465.1	W	841.5	2,635.8	3,306.6	W	38.9
Subdistrict IC								
September 1998 ..	W	W	W	1,797.3	W	W	W	–
August 1998	W	W	W	W	W	W	W	W
September 1997 ..	316.3	W	W	W	W	2,170.8	11.6	W
PAD District II								
September 1998 ..	W	W	W	252.6	30.3	W	W	–
August 1998	W	W	W	W	55.3	W	W	W
September 1997 ..	W	W	W	W	67.3	287.4	4.8	NA
PAD District III								
September 1998 ..	–	W	3,055.2	W	3,055.2	5,706.1	W	W
August 1998	–	1,650.7	3,182.8	4,520.5	3,182.8	6,171.2	W	–
September 1997 ..	W	627.0	W	2,470.1	3,331.7	3,097.1	–	–
PAD District IV								
September 1998 ..	W	W	W	W	2.7	W	–	–
August 1998	W	W	W	W	3.9	W	–	–
September 1997 ..	W	W	W	W	13.5	59.6	–	–
PAD District V								
September 1998 ..	1,049.1	629.7	2,321.7	1,711.1	3,370.8	2,340.8	W	W
August 1998	778.9	437.0	1,719.9	744.5	2,498.8	1,181.5	W	W
September 1997 ..	1,160.1	432.0	3,263.9	NA	4,424.1	NA	W	12.2

Dash (–) = No data reported.
NA = Not available.
W = Withheld to avoid disclosure of individual company data.
[a] Includes No. 4 fuel oil and No. 4 diesel fuel.
Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual.*
Source: Energy Information Administration Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report."

Prime Supplier Sales Volumes of Petroleum Products for Local Consumption

Table 48. Prime Supplier Sales Volumes of Motor Gasoline by Grade, Formulation, PAD District, and State

(Thousand Gallons per Day)

Geographic Area Month	Regular				Midgrade			
	Conventional[a]	Oxygenated	Reformulated	Total	Conventional	Oxygenated	Reformulated	Total
United States								
September 1998	169,439.1	6,651.2	77,328.6	253,418.8	23,201.2	1,230.0	15,449.5	39,880.6
August 1998	174,320.1	5,857.1	79,007.1	259,184.4	24,124.7	1,080.5	15,945.8	41,151.1
September 1997	166,358.2	5,692.2	76,014.5	248,064.8	23,512.9	855.7	15,563.4	39,932.0
PAD District I								
September 1998	50,470.4	–	31,182.6	81,653.0	8,951.8	–	6,100.3	15,052.1
August 1998	51,794.2	–	31,970.3	83,764.5	9,389.7	–	6,357.2	15,746.9
September 1997	49,789.9	–	31,110.3	80,900.2	9,292.0	–	6,364.6	15,656.5
Subdistrict IA								
September 1998	1,758.3	–	10,285.6	12,043.9	212.1	–	1,619.5	1,831.6
August 1998	1,966.8	–	10,544.8	12,511.6	253.0	–	1,724.9	1,977.9
September 1997	1,739.2	–	10,422.2	12,161.4	228.0	–	1,677.8	1,905.8
Connecticut								
September 1998	–	–	2,632.3	2,632.3	–	–	465.7	465.7
August 1998	–	–	2,659.0	2,659.0	–	–	481.0	481.0
September 1997	–	–	2,517.0	2,517.0	–	–	451.9	451.9
Maine								
September 1998	881.0	–	1,096.6	1,977.6	93.8	–	112.1	205.8
August 1998	999.3	–	1,116.1	2,115.4	120.3	–	133.4	253.6
September 1997	863.4	–	1,070.5	1,933.9	102.1	–	118.7	220.8
Massachusetts								
September 1998	W	–	W	4,797.3	–	–	778.4	778.4
August 1998	–	–	4,909.2	4,909.2	–	–	821.5	821.5
September 1997	–	–	5,101.5	5,101.5	–	–	837.2	837.2
New Hampshire								
September 1998	W	–	W	1,095.2	49.9	–	104.4	154.2
August 1998	351.1	–	768.4	1,119.5	53.0	–	108.5	161.5
September 1997	293.0	–	716.6	1,009.5	46.7	–	103.6	150.3
Rhode Island								
September 1998	–	–	995.5	995.5	–	–	159.0	159.0
August 1998	–	–	1,092.1	1,092.1	–	–	180.5	180.5
September 1997	–	–	1,016.6	1,016.6	–	–	166.5	166.5
Vermont								
September 1998	546.0	–	–	546.0	68.4	–	–	68.4
August 1998	616.5	–	–	616.5	79.8	–	–	79.8
September 1997	582.8	–	–	582.8	79.2	–	–	79.2
Subdistrict IB								
September 1998	13,426.0	–	17,404.5	30,830.4	1,488.6	–	3,632.3	5,120.9
August 1998	13,839.2	–	17,828.9	31,668.0	1,586.9	–	3,745.4	5,332.3
September 1997	13,325.9	–	17,381.5	30,707.4	1,620.2	–	3,829.2	5,449.4
Delaware								
September 1998	–	–	764.6	764.6	–	–	172.8	172.8
August 1998	–	–	804.4	804.4	–	–	186.3	186.3
September 1997	–	–	697.5	697.5	–	–	178.1	178.1
District of Columbia								
September 1998	–	–	120.6	120.6	–	–	NA	NA
August 1998	–	–	121.9	121.9	–	–	NA	NA
September 1997	–	–	139.0	139.0	–	–	82.6	82.6
Maryland								
September 1998	478.8	–	2,911.5	3,390.3	74.6	–	775.9	850.5
August 1998	W	–	W	3,424.9	90.1	–	775.9	866.0
September 1997	502.6	–	3,055.4	3,558.0	91.8	–	844.2	936.0
New Jersey								
September 1998	–	–	6,919.6	6,919.6	–	–	1,263.4	1,263.4
August 1998	W	–	W	7,281.7	–	–	1,334.3	1,334.3
September 1997	–	–	6,730.9	6,730.9	–	–	1,255.4	1,255.4
New York								
September 1998	5,364.7	–	4,394.0	9,758.7	484.4	–	834.3	1,318.7
August 1998	5,671.1	–	4,466.8	10,137.9	528.8	–	855.2	1,384.0
September 1997	5,407.5	–	4,488.2	9,895.7	498.6	–	921.5	1,420.2
Pennsylvania								
September 1998	7,582.5	–	2,294.0	9,876.6	929.7	–	510.9	1,440.6
August 1998	7,623.5	–	2,273.8	9,897.3	968.0	–	518.2	1,486.3
September 1997	7,415.7	–	2,270.4	9,686.1	1,029.7	–	547.4	1,577.1

See footnotes at end of table.

Table 48. Prime Supplier Sales Volumes of Motor Gasoline by Grade, Formulation, PAD District, and State

(Thousand Gallons per Day) — Continued

Geographic Area Month	Premium				All Grades			
	Conventional	Oxygenated	Reformulated	Total	Conventional	Oxygenated	Reformulated	Total
United States								
September 1998	38,562.6	885.5	25,407.7	64,855.8	231,202.8	8,766.6	118,185.8	358,155.2
August 1998	39,547.5	661.5	25,957.9	66,167.0	237,992.4	7,599.1	120,910.9	366,502.4
September 1997	32,716.8	740.4	21,732.7	55,189.9	222,587.9	7,288.3	113,310.5	343,186.7
PAD District I								
September 1998	15,128.9	–	13,348.8	28,477.7	74,551.1	–	50,631.7	125,182.8
August 1998	15,509.4	–	13,674.8	29,184.3	76,693.3	–	52,002.4	128,695.7
September 1997	13,089.2	–	11,564.9	24,654.1	72,171.1	–	49,039.7	121,210.8
Subdistrict IA								
September 1998	300.5	–	2,886.2	3,186.7	2,270.8	–	14,791.3	17,062.2
August 1998	352.7	–	3,024.7	3,377.5	2,572.5	–	15,294.5	17,867.0
September 1997	263.3	–	2,465.5	2,728.8	2,230.5	–	14,565.5	16,796.0
Connecticut								
September 1998	–	–	812.9	812.9	–	–	3,910.9	3,910.9
August 1998	–	–	813.9	813.9	–	–	3,953.9	3,953.9
September 1997	–	–	675.1	675.1	–	–	3,643.9	3,643.9
Maine								
September 1998	125.0	–	208.1	333.0	1,099.7	–	1,416.7	2,516.4
August 1998	153.9	–	231.4	385.3	1,273.4	–	1,480.9	2,754.3
September 1997	111.8	–	172.1	283.9	1,077.3	–	1,361.3	2,438.6
Massachusetts								
September 1998	–	–	1,420.0	1,420.0	W	–	W	6,995.6
August 1998	W	–	W	1,491.1	W	–	W	7,221.8
September 1997	–	–	1,237.0	1,237.0	–	–	7,175.7	7,175.7
New Hampshire								
September 1998	58.6	–	165.7	224.3	W	–	W	1,473.7
August 1998	W	–	W	239.8	W	–	W	1,520.8
September 1997	49.1	–	130.4	179.5	388.8	–	950.5	1,339.4
Rhode Island								
September 1998	–	–	279.6	279.6	–	–	1,434.2	1,434.2
August 1998	–	–	314.3	314.3	–	–	1,586.9	1,586.9
September 1997	–	–	250.9	250.9	–	–	1,434.0	1,434.0
Vermont								
September 1998	116.9	–	–	116.9	731.3	–	–	731.3
August 1998	133.1	–	–	133.1	829.4	–	–	829.4
September 1997	102.3	–	–	102.3	764.3	–	–	764.3
Subdistrict IB								
September 1998	2,810.8	–	9,003.0	11,813.8	17,725.4	–	30,039.7	47,765.1
August 1998	2,968.4	–	9,155.6	12,124.0	18,394.5	–	30,729.8	49,124.3
September 1997	2,564.6	–	7,885.9	10,450.5	17,510.7	–	29,096.6	46,607.3
Delaware								
September 1998	–	–	193.1	193.1	–	–	1,130.6	1,130.6
August 1998	–	–	204.4	204.4	–	–	1,195.0	1,195.0
September 1997	–	–	159.3	159.3	–	–	1,034.9	1,034.9
District of Columbia								
September 1998	–	–	NA	NA	–	–	357.2	357.2
August 1998	–	–	NA	NA	–	–	358.0	358.0
September 1997	–	–	151.9	151.9	–	–	373.5	373.5
Maryland								
September 1998	121.8	–	1,285.4	1,407.1	675.1	–	4,972.8	5,647.9
August 1998	138.8	–	1,262.6	1,401.4	W	–	W	5,692.3
September 1997	113.5	–	1,159.0	1,272.5	708.0	–	5,058.6	5,766.6
New Jersey								
September 1998	–	–	3,352.2	3,352.2	–	–	11,535.2	11,535.2
August 1998	–	–	3,463.2	3,463.2	W	–	W	12,079.2
September 1997	–	–	2,917.6	2,917.6	–	–	10,903.9	10,903.9
New York								
September 1998	1,018.8	–	3,154.8	4,173.7	6,867.9	–	8,383.2	15,251.1
August 1998	1,102.3	–	3,219.9	4,322.2	7,302.2	–	8,541.9	15,844.1
September 1997	899.9	–	2,740.0	3,639.9	6,806.0	–	8,149.8	14,955.8
Pennsylvania								
September 1998	1,670.2	–	855.8	2,526.0	10,182.4	–	3,660.7	13,843.1
August 1998	1,727.3	–	844.9	2,572.2	10,318.8	–	3,636.9	13,955.7
September 1997	1,551.2	–	758.2	2,309.4	9,996.6	–	3,575.9	13,572.6

See footnotes at end of table.

Table 48. Prime Supplier Sales Volumes of Motor Gasoline by Grade, Formulation, PAD District, and State

(Thousand Gallons per Day) — Continued

Geographic Area Month	Regular				Midgrade			
	Conventional[a]	Oxygenated	Reformulated	Total	Conventional	Oxygenated	Reformulated	Total
Subdistrict IC								
September 1998	35,286.1	–	3,492.6	38,778.7	7,251.1	–	848.5	8,099.6
August 1998	35,988.3	–	3,596.6	39,584.9	7,549.7	–	887.0	8,436.7
September 1997	34,724.8	–	3,306.7	38,031.4	7,443.7	–	857.6	8,301.3
Florida								
September 1998	11,644.0	–	–	11,644.0	2,855.0	–	–	2,855.0
August 1998	11,784.5	–	–	11,784.5	2,955.2	–	–	2,955.2
September 1997	11,561.3	–	–	11,561.3	2,954.1	–	–	2,954.1
Georgia								
September 1998	7,832.3	–	–	7,832.3	1,599.5	–	–	1,599.5
August 1998	8,081.0	–	–	8,081.0	1,662.4	–	–	1,662.4
September 1997	7,994.7	–	–	7,994.7	1,572.2	–	–	1,572.2
North Carolina								
September 1998	7,305.9	–	–	7,305.9	1,390.5	–	–	1,390.5
August 1998	7,396.3	–	–	7,396.3	1,446.7	–	–	1,446.7
September 1997	7,189.4	–	–	7,189.4	1,527.8	–	–	1,527.8
South Carolina								
September 1998	4,010.0	–	–	4,010.0	667.5	–	–	667.5
August 1998	4,088.6	–	–	4,088.6	711.3	–	–	711.3
September 1997	3,826.1	–	–	3,826.1	664.5	–	–	664.5
Virginia								
September 1998	3,197.9	–	3,492.6	6,690.5	553.7	–	848.5	1,402.2
August 1998	3,279.0	–	3,596.6	6,875.6	574.5	–	887.0	1,461.4
September 1997	3,105.1	–	3,306.7	6,411.8	537.2	–	857.6	1,394.7
West Virginia								
September 1998	1,296.1	–	–	1,296.1	184.8	–	–	184.8
August 1998	1,358.8	–	–	1,358.8	199.6	–	–	199.6
September 1997	1,048.2	–	–	1,048.2	188.1	–	–	188.1
PAD District II								
September 1998	68,289.5	3,676.8	7,969.2	79,935.5	7,332.1	800.5	1,738.9	9,871.6
August 1998	69,926.5	3,679.5	8,262.6	81,868.7	7,546.1	763.1	1,792.2	10,101.4
September 1997	68,744.4	2,581.4	7,623.5	78,949.3	7,232.6	358.6	1,647.9	9,239.1
Illinois								
September 1998	4,733.2	–	4,620.8	9,354.0	461.7	–	1,200.3	1,662.0
August 1998	4,887.4	–	4,727.4	9,614.8	500.9	–	1,228.4	1,729.4
September 1997	4,756.4	–	4,547.7	9,304.2	427.5	–	1,155.6	1,583.1
Indiana								
September 1998	5,418.7	–	956.0	6,374.7	758.0	–	163.1	921.2
August 1998	5,691.6	–	1,059.4	6,751.0	768.5	–	176.4	944.9
September 1997	5,456.9	–	728.7	6,185.6	778.9	–	141.5	920.4
Iowa								
September 1998	3,587.7	–	–	3,587.7	NA	–	–	NA
August 1998	3,588.8	–	–	3,588.8	337.5	–	–	337.5
September 1997	3,569.4	–	–	3,569.4	251.5	–	–	251.5
Kansas								
September 1998	3,642.5	–	–	3,642.5	160.6	–	–	160.6
August 1998	3,661.7	–	–	3,661.7	164.9	–	–	164.9
September 1997	3,526.6	–	–	3,526.6	132.4	–	–	132.4
Kentucky								
September 1998	3,170.5	–	937.2	4,107.7	415.4	–	197.1	612.5
August 1998	3,185.8	–	974.3	4,160.1	W	–	W	633.9
September 1997	3,054.7	–	913.1	3,967.8	412.7	–	189.0	601.7
Michigan								
September 1998	10,756.1	–	–	10,756.1	1,064.2	–	–	1,064.2
August 1998	11,075.5	–	–	11,075.5	1,110.7	–	–	1,110.7
September 1997	10,384.2	–	–	10,384.2	1,057.3	–	–	1,057.3
Minnesota								
September 1998	1,292.0	3,676.8	–	4,968.8	17.3	800.5	–	817.8
August 1998	1,411.8	3,679.5	–	5,091.3	W	W	–	803.9
September 1997	2,916.4	2,581.4	–	5,497.8	53.2	358.6	–	411.8
Missouri								
September 1998	6,126.4	–	–	6,126.4	500.7	–	–	500.7
August 1998	6,350.0	–	–	6,350.0	506.2	–	–	506.2
September 1997	6,008.8	–	–	6,008.8	445.1	–	–	445.1

See footnotes at end of table.

Table 48. Prime Supplier Sales Volumes of Motor Gasoline by Grade, Formulation, PAD District, and State

(Thousand Gallons per Day) — Continued

Geographic Area Month	Premium				All Grades			
	Conventional	Oxygenated	Reformulated	Total	Conventional	Oxygenated	Reformulated	Total
Subdistrict IC								
September 1998	12,017.7	–	1,459.6	13,477.2	54,554.9	–	5,800.7	60,355.6
August 1998	12,188.3	–	1,494.5	13,682.8	55,726.3	–	5,978.1	61,704.4
September 1997	10,261.4	–	1,213.4	11,474.8	52,429.9	–	5,377.6	57,807.5
Florida								
September 1998	4,795.5	–	–	4,795.5	19,294.5	–	–	19,294.5
August 1998	4,891.0	–	–	4,891.0	19,630.7	–	–	19,630.7
September 1997	4,162.0	–	–	4,162.0	18,677.3	–	–	18,677.3
Georgia								
September 1998	2,506.7	–	–	2,506.7	11,938.6	–	–	11,938.6
August 1998	2,546.3	–	–	2,546.3	12,289.7	–	–	12,289.7
September 1997	2,193.0	–	–	2,193.0	11,759.9	–	–	11,759.9
North Carolina								
September 1998	2,357.1	–	–	2,357.1	11,053.5	–	–	11,053.5
August 1998	2,357.3	–	–	2,357.3	11,200.2	–	–	11,200.2
September 1997	2,013.5	–	–	2,013.5	10,730.6	–	–	10,730.6
South Carolina								
September 1998	1,157.0	–	–	1,157.0	5,834.5	–	–	5,834.5
August 1998	1,168.0	–	–	1,168.0	5,967.9	–	–	5,967.9
September 1997	935.1	–	–	935.1	5,425.7	–	–	5,425.7
Virginia								
September 1998	951.1	–	1,459.6	2,410.6	4,702.6	–	5,800.7	10,503.3
August 1998	948.0	–	1,494.5	2,442.5	4,801.5	–	5,978.1	10,779.5
September 1997	776.8	–	1,213.4	1,990.2	4,419.1	–	5,377.6	9,796.7
West Virginia								
September 1998	250.3	–	–	250.3	1,731.1	–	–	1,731.1
August 1998	277.8	–	–	277.8	1,836.3	–	–	1,836.3
September 1997	180.9	–	–	180.9	1,417.2	–	–	1,417.2
PAD District II								
September 1998	11,979.6	391.0	2,174.5	14,545.0	87,601.2	4,868.3	11,882.6	104,352.1
August 1998	12,157.7	384.3	2,216.8	14,758.8	89,630.4	4,826.8	12,271.6	106,728.8
September 1997	10,269.8	308.4	1,958.6	12,536.8	86,246.8	3,248.4	11,230.0	100,725.2
Illinois								
September 1998	597.3	–	1,483.6	2,080.9	5,792.1	–	7,304.7	13,096.8
August 1998	618.6	–	1,497.5	2,116.0	6,006.9	–	7,453.3	13,460.2
September 1997	595.9	–	1,383.7	1,979.7	5,779.8	–	7,087.1	12,866.9
Indiana								
September 1998	1,105.9	–	252.5	1,358.4	7,282.7	–	1,371.6	8,654.3
August 1998	1,095.4	–	273.3	1,368.7	7,555.6	–	1,509.1	9,064.6
September 1997	952.7	–	176.1	1,128.8	7,188.5	–	1,046.3	8,234.7
Iowa								
September 1998	260.2	–	–	260.2	4,202.5	–	–	4,202.5
August 1998	273.3	–	–	273.3	4,199.5	–	–	4,199.5
September 1997	255.1	–	–	255.1	4,076.0	–	–	4,076.0
Kansas								
September 1998	418.8	–	–	418.8	4,221.9	–	–	4,221.9
August 1998	419.0	–	–	419.0	4,245.5	–	–	4,245.5
September 1997	342.3	–	–	342.3	4,001.3	–	–	4,001.3
Kentucky								
September 1998	828.2	–	212.2	1,040.5	4,414.1	–	1,346.5	5,760.6
August 1998	W	–	W	1,021.2	4,417.5	–	1,397.6	5,815.2
September 1997	689.1	–	192.4	881.4	4,156.5	–	1,294.5	5,451.0
Michigan								
September 1998	1,854.7	–	–	1,854.7	13,675.0	–	–	13,675.0
August 1998	1,894.3	–	–	1,894.3	14,080.5	–	–	14,080.5
September 1997	1,561.9	–	–	1,561.9	13,003.5	–	–	13,003.5
Minnesota								
September 1998	235.0	391.0	–	626.0	1,544.2	4,868.3	–	6,412.6
August 1998	W	W	–	678.9	1,747.3	4,826.8	–	6,574.1
September 1997	189.6	308.4	–	498.0	3,159.2	3,248.4	–	6,407.7
Missouri								
September 1998	947.8	–	–	947.8	7,574.9	–	–	7,574.9
August 1998	979.0	–	–	979.0	7,835.2	–	–	7,835.2
September 1997	767.8	–	–	767.8	7,221.7	–	–	7,221.7

See footnotes at end of table.

Table 48. Prime Supplier Sales Volumes of Motor Gasoline by Grade, Formulation, PAD District, and State

(Thousand Gallons per Day) — Continued

Geographic Area Month	Regular				Midgrade			
	Conventional[a]	Oxygenated	Reformulated	Total	Conventional	Oxygenated	Reformulated	Total
Nebraska								
September 1998	2,086.7	–	–	2,086.7	NA	–	–	NA
August 1998	2,087.7	–	–	2,087.7	112.3	–	–	112.3
September 1997	1,990.4	–	–	1,990.4	81.2	–	–	81.2
North Dakota								
September 1998	NA	–	–	NA	NA	–	–	NA
August 1998	948.6	–	–	948.6	NA	–	–	NA
September 1997	961.2	–	–	961.2	W	–	–	W
Ohio								
September 1998	10,680.8	–	–	10,680.8	1,742.9	–	–	1,742.9
August 1998	11,016.6	–	–	11,016.6	1,815.0	–	–	1,815.0
September 1997	10,800.1	–	–	10,800.1	1,797.1	–	–	1,797.1
Oklahoma								
September 1998	4,632.6	–	–	4,632.6	219.2	–	–	219.2
August 1998	4,435.2	–	–	4,435.2	225.0	–	–	225.0
September 1997	4,205.1	–	–	4,205.1	231.2	–	–	231.2
South Dakota								
September 1998	1,040.4	–	–	1,040.4	NA	–	–	NA
August 1998	1,116.4	–	–	1,116.4	72.5	–	–	72.5
September 1997	1,080.1	–	–	1,080.1	W	–	–	W
Tennessee								
September 1998	6,007.1	–	–	6,007.1	1,220.0	–	–	1,220.0
August 1998	6,129.6	–	–	6,129.6	1,209.2	–	–	1,209.2
September 1997	5,911.1	–	–	5,911.1	1,280.0	–	–	1,280.0
Wisconsin								
September 1998	4,190.8	–	1,455.2	5,646.0	199.2	–	178.4	377.6
August 1998	4,339.8	–	1,501.5	5,841.4	W	–	W	397.9
September 1997	4,122.9	–	1,434.0	5,556.8	219.2	–	161.7	381.0
PAD District III								
September 1998	29,316.8	231.7	8,140.8	37,689.3	4,036.4	22.5	1,688.1	5,747.0
August 1998	29,700.2	W	W	38,155.2	W	W	W	5,760.3
September 1997	28,551.7	304.2	8,075.7	36,931.6	4,265.8	35.3	1,752.6	6,053.7
Alabama								
September 1998	4,126.1	–	–	4,126.1	710.2	–	–	710.2
August 1998	4,135.5	–	–	4,135.5	642.7	–	–	642.7
September 1997	4,035.4	–	–	4,035.4	802.0	–	–	802.0
Arkansas								
September 1998	3,040.3	–	–	3,040.3	368.2	–	–	368.2
August 1998	3,125.2	–	–	3,125.2	371.3	–	–	371.3
September 1997	2,953.3	–	–	2,953.3	372.4	–	–	372.4
Louisiana								
September 1998	W	–	W	3,891.3	778.5	–	–	778.5
August 1998	W	–	W	3,977.3	764.1	–	–	764.1
September 1997	W	–	W	3,801.2	823.9	–	–	823.9
Mississippi								
September 1998	2,907.4	–	–	2,907.4	386.9	–	–	386.9
August 1998	2,785.2	–	–	2,785.2	399.0	–	–	399.0
September 1997	2,747.6	–	–	2,747.6	405.9	–	–	405.9
New Mexico								
September 1998	W	W	–	1,984.3	W	W	–	189.2
August 1998	W	W	–	2,058.1	W	W	–	189.8
September 1997	W	W	–	2,072.8	W	W	–	238.9
Texas								
September 1998	13,398.1	W	W	21,739.9	W	W	1,688.1	3,314.1
August 1998	W	–	W	22,074.0	W	–	W	3,393.4
September 1997	13,056.3	W	W	21,321.4	W	W	1,752.6	3,410.6
PAD District IV								
September 1998	8,918.1	350.4	–	9,268.5	1,402.2	79.7	–	1,481.9
August 1998	9,403.6	365.2	–	9,768.8	W	W	–	1,531.7
September 1997	8,510.7	332.8	–	8,843.5	1,457.2	79.0	–	1,536.2
Colorado								
September 1998	3,541.9	350.4	–	3,892.3	742.9	79.7	–	822.6
August 1998	3,654.7	365.2	–	4,019.9	W	W	–	849.3
September 1997	3,238.5	328.1	–	3,566.6	W	W	–	776.5

See footnotes at end of table.

Table 48. Prime Supplier Sales Volumes of Motor Gasoline by Grade, Formulation, PAD District, and State

(Thousand Gallons per Day) — Continued

Geographic Area Month	Premium				All Grades			
	Conventional	Oxygenated	Reformulated	Total	Conventional	Oxygenated	Reformulated	Total
Nebraska								
September 1998	165.1	–	–	165.1	2,363.1	–	–	2,363.1
August 1998	170.0	–	–	170.0	2,370.1	–	–	2,370.1
September 1997	138.1	–	–	138.1	2,209.7	–	–	2,209.7
North Dakota								
September 1998	NA	–	–	NA	NA	–	–	NA
August 1998	64.8	–	–	64.8	1,051.5	–	–	1,051.5
September 1997	W	–	–	W	1,040.3	–	–	1,040.3
Ohio								
September 1998	1,962.1	–	–	1,962.1	14,385.8	–	–	14,385.8
August 1998	2,032.1	–	–	2,032.1	14,863.7	–	–	14,863.7
September 1997	1,804.2	–	–	1,804.2	14,401.4	–	–	14,401.4
Oklahoma								
September 1998	857.4	–	–	857.4	5,709.2	–	–	5,709.2
August 1998	821.7	–	–	821.7	5,481.9	–	–	5,481.9
September 1997	624.1	–	–	624.1	5,060.4	–	–	5,060.4
South Dakota								
September 1998	NA	–	–	NA	1,189.9	–	–	1,189.9
August 1998	93.4	–	–	93.4	1,282.3	–	–	1,282.3
September 1997	W	–	–	W	1,189.6	–	–	1,189.6
Tennessee								
September 1998	2,071.7	–	–	2,071.7	9,298.8	–	–	9,298.8
August 1998	2,002.1	–	–	2,002.1	9,340.9	–	–	9,340.9
September 1997	1,764.8	–	–	1,764.8	8,956.0	–	–	8,956.0
Wisconsin								
September 1998	533.9	–	226.1	760.1	4,923.9	–	1,859.7	6,783.7
August 1998	W	–	W	824.5	5,152.1	–	1,911.6	7,063.7
September 1997	460.9	–	206.4	667.3	4,803.0	–	1,802.1	6,605.1
PAD District III								
September 1998	6,945.9	50.8	2,345.6	9,342.3	40,299.2	304.9	12,174.5	52,778.7
August 1998	W	W	2,407.2	9,394.5	40,709.4	W	W	53,310.0
September 1997	5,906.6	53.8	2,053.6	8,014.0	38,724.2	393.3	11,881.9	50,999.3
Alabama								
September 1998	1,355.0	–	–	1,355.0	6,191.3	–	–	6,191.3
August 1998	1,328.0	–	–	1,328.0	6,106.2	–	–	6,106.2
September 1997	1,154.2	–	–	1,154.2	5,991.5	–	–	5,991.5
Arkansas								
September 1998	711.3	–	–	711.3	4,119.9	–	–	4,119.9
August 1998	708.9	–	–	708.9	4,205.4	–	–	4,205.4
September 1997	591.8	–	–	591.8	3,917.5	–	–	3,917.5
Louisiana								
September 1998	1,259.5	–	–	1,259.5	W	–	W	5,929.3
August 1998	1,249.8	–	–	1,249.8	W	–	W	5,991.3
September 1997	1,131.8	–	–	1,131.8	W	–	W	5,756.9
Mississippi								
September 1998	784.4	–	–	784.4	4,078.6	–	–	4,078.6
August 1998	778.2	–	–	778.2	3,962.3	–	–	3,962.3
September 1997	669.6	–	–	669.6	3,823.1	–	–	3,823.1
New Mexico								
September 1998	W	W	–	352.4	W	W	–	2,525.9
August 1998	W	W	–	367.2	W	W	–	2,615.0
September 1997	W	W	–	315.8	W	W	–	2,627.6
Texas								
September 1998	W	W	2,345.6	4,879.7	17,492.7	W	W	29,933.7
August 1998	W	–	W	4,962.5	17,867.5	–	12,562.3	30,429.8
September 1997	W	W	2,053.6	4,150.9	16,765.7	W	W	28,882.8
PAD District IV								
September 1998	2,040.5	72.4	–	2,112.9	12,360.7	502.5	–	12,863.3
August 1998	W	W	–	2,252.0	13,024.9	527.6	–	13,552.5
September 1997	1,714.9	51.3	–	1,766.2	11,682.8	463.1	–	12,145.9
Colorado								
September 1998	787.6	72.4	–	860.0	5,072.4	502.5	–	5,574.9
August 1998	W	W	–	886.5	5,228.0	527.6	–	5,755.6
September 1997	W	W	–	694.6	4,580.8	457.0	–	5,037.7

See footnotes at end of table.

Table 48. Prime Supplier Sales Volumes of Motor Gasoline by Grade, Formulation, PAD District, and State

(Thousand Gallons per Day) — Continued

Geographic Area Month	Regular				Midgrade			
	Conventional[a]	Oxygenated	Reformulated	Total	Conventional	Oxygenated	Reformulated	Total
Idaho								
September 1998	1,326.6	–	–	1,326.6	152.0	–	–	152.0
August 1998	1,429.5	–	–	1,429.5	164.5	–	–	164.5
September 1997	1,216.8	–	–	1,216.8	144.7	–	–	144.7
Montana								
September 1998	1,137.4	–	–	1,137.4	45.7	–	–	45.7
August 1998	1,272.6	–	–	1,272.6	42.8	–	–	42.8
September 1997	W	W	–	1,165.9	62.3	–	–	62.3
Utah								
September 1998	2,154.5	–	–	2,154.5	444.8	–	–	444.8
August 1998	2,236.3	–	–	2,236.3	453.6	–	–	453.6
September 1997	W	W	–	2,180.9	W	W	–	535.2
Wyoming								
September 1998	757.7	–	–	757.7	16.9	–	–	16.9
August 1998	810.6	–	–	810.6	21.5	–	–	21.5
September 1997	713.3	–	–	713.3	17.5	–	–	17.5
PAD District V								
September 1998	12,444.2	2,392.3	30,035.9	44,872.4	1,478.7	327.3	5,922.1	7,728.1
August 1998	13,495.5	W	W	45,627.1	1,720.3	W	W	8,010.8
September 1997	10,761.5	2,473.8	29,205.0	42,440.2	1,265.3	382.9	5,798.3	7,446.5
Alaska								
September 1998	W	W	–	726.1	W	W	–	28.2
August 1998	769.7	–	–	769.7	29.1	–	–	29.1
September 1997	W	W	–	656.9	W	W	–	24.7
Arizona								
September 1998	1,744.8	141.3	2,546.8	4,432.9	181.8	22.4	394.5	598.7
August 1998	1,799.6	W	W	4,371.9	W	–	W	606.2
September 1997	1,081.2	102.0	2,380.0	3,563.2	105.2	W	W	493.6
California								
September 1998	195.9	–	27,488.4	27,684.3	12.5	–	5,527.6	5,540.1
August 1998	NA	–	27,790.2	27,945.4	12.6	–	5,666.4	5,679.0
September 1997	W	–	W	26,988.7	W	–	W	5,443.9
Hawaii								
September 1998	598.3	–	–	598.3	125.5	–	–	125.5
August 1998	615.0	–	–	615.0	127.9	–	–	127.9
September 1997	560.5	–	–	560.5	131.7	–	–	131.7
Nevada								
September 1998	W	384.7	W	1,761.7	W	W	–	260.3
August 1998	W	–	W	1,870.9	312.9	–	–	312.9
September 1997	1,337.7	W	W	1,695.8	161.9	80.9	–	242.8
Oregon								
September 1998	3,081.3	W	W	3,568.3	W	W	–	297.2
August 1998	3,315.9	W	W	3,799.3	W	W	–	314.4
September 1997	2,880.2	W	W	3,325.7	W	W	–	249.8
Washington								
September 1998	4,722.5	1,378.4	–	6,100.9	695.2	182.9	–	878.1
August 1998	W	W	–	6,255.1	W	W	–	941.3
September 1997	4,093.7	1,555.6	–	5,649.3	632.8	227.2	–	860.0

See footnotes at end of table.

Table 48. Prime Supplier Sales Volumes of Motor Gasoline by Grade, Formulation, PAD District, and State

(Thousand Gallons per Day) — Continued

Geographic Area Month	Premium				All Grades			
	Conventional	Oxygenated	Reformulated	Total	Conventional	Oxygenated	Reformulated	Total
Idaho								
September 1998	214.3	–	–	214.3	1,692.9	–	–	1,692.9
August 1998	236.8	–	–	236.8	1,830.8	–	–	1,830.8
September 1997	171.8	–	–	171.8	1,533.3	–	–	1,533.3
Montana								
September 1998	279.0	–	–	279.0	1,462.0	–	–	1,462.0
August 1998	317.9	–	–	317.9	1,633.3	–	–	1,633.3
September 1997	W	W	–	230.3	W	W	–	1,458.5
Utah								
September 1998	578.9	–	–	578.9	3,178.1	–	–	3,178.1
August 1998	607.8	–	–	607.8	3,297.7	–	–	3,297.7
September 1997	W	W	–	518.6	W	W	–	3,234.7
Wyoming								
September 1998	180.7	–	–	180.7	955.3	–	–	955.3
August 1998	203.0	–	–	203.0	1,035.1	–	–	1,035.1
September 1997	150.9	–	–	150.9	881.7	–	–	881.7
PAD District V								
September 1998	2,467.7	371.3	7,538.9	10,377.8	16,390.6	3,090.8	43,496.9	62,978.3
August 1998	2,718.5	199.7	7,659.1	10,577.4	17,934.4	W	W	64,215.3
September 1997	1,736.3	326.9	6,155.6	8,218.8	13,763.1	3,183.5	41,158.9	58,105.5
Alaska								
September 1998	W	W	–	92.1	832.2	14.2	–	846.3
August 1998	W	W	–	92.1	W	W	–	890.8
September 1997	W	W	–	71.3	W	W	–	752.9
Arizona								
September 1998	298.7	29.9	537.1	865.7	2,225.3	193.7	3,478.4	5,897.4
August 1998	W	W	543.7	844.0	W	W	3,500.2	5,822.1
September 1997	142.9	W	W	584.5	1,329.3	153.5	3,158.5	4,641.3
California								
September 1998	NA	–	7,001.6	7,058.5	265.3	–	40,017.6	40,282.9
August 1998	NA	–	7,115.3	7,163.4	NA	–	40,571.9	40,787.8
September 1997	W	–	W	5,775.3	W	–	W	38,207.8
Hawaii								
September 1998	271.4	–	–	271.4	995.2	–	–	995.2
August 1998	272.3	–	–	272.3	1,015.2	–	–	1,015.2
September 1997	271.0	–	–	271.0	963.3	–	–	963.3
Nevada								
September 1998	342.5	W	W	446.9	1,905.8	W	W	2,468.8
August 1998	W	–	W	445.9	W	–	W	2,629.7
September 1997	209.1	W	W	293.7	1,708.7	W	W	2,232.3
Oregon								
September 1998	W	W	W	518.7	3,802.7	W	W	4,384.1
August 1998	W	W	W	545.8	4,086.1	W	W	4,659.5
September 1997	W	W	W	375.4	3,427.3	W	W	3,950.9
Washington								
September 1998	946.5	178.1	–	1,124.6	6,364.1	1,739.4	–	8,103.6
August 1998	W	W	–	1,213.9	W	W	–	8,410.2
September 1997	676.5	171.2	–	847.7	5,403.0	1,954.0	–	7,357.0

Dash (–) = No data reported.
NA = Not available.
W = Withheld to avoid disclosure of individual company data.
[a] Includes leaded gasoline data.
Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual.* Totals may not equal the sum of the components due to rounding.
Source: Energy Information Administration, Form EIA-782C, "Monthly Report of Prime Supplier Sales of Petroleum Products Sold for Local Consumption."

Table 49. Prime Supplier Sales Volumes of Aviation Fuels, Propane, and Residual Fuel Oil by PAD District and State

(Thousand Gallons per Day)

Geographic Area Month	Aviation Gasoline	Naphtha-Type Jet Fuel	Kerosene-Type Jet Fuel	Propane (Consumer Grade)	Residual Fuel Oil		
					Sulfur Less Than or Equal to 1 Percent	Sulfur Greater Than 1 Percent	Total Residual Fuel Oil
United States							
September 1998	937.8	517.1	58,379.9	34,021.0	7,390.4	21,403.4	28,793.8
August 1998	931.9	619.7	63,179.7	28,960.6	11,143.6	21,886.5	33,030.2
September 1997	902.3	673.1	62,331.2	36,239.4	8,095.7	18,613.9	26,709.6
PAD District I							
September 1998	197.5	W	14,123.6	6,011.6	4,662.4	9,994.8	14,657.1
August 1998	193.2	W	14,801.7	5,226.2	9,031.9	12,970.1	22,002.0
September 1997	182.4	W	15,190.0	6,683.3	5,807.3	7,739.5	13,546.8
Subdistrict IA							
September 1998	23.0	–	1,212.0	352.9	W	W	2,305.4
August 1998	24.1	–	1,457.1	300.5	1,308.7	1,818.6	3,127.3
September 1997	19.0	–	1,243.8	435.6	1,364.7	1,291.3	2,656.0
Connecticut							
September 1998	3.8	–	NA	72.1	W	–	W
August 1998	3.6	–	NA	65.7	6.6	W	W
September 1997	3.9	–	238.8	81.8	W	W	394.3
Maine							
September 1998	3.4	–	94.7	50.6	W	W	813.7
August 1998	W	–	94.7	49.7	946.5	340.8	1,287.4
September 1997	W	–	109.6	59.1	454.4	594.6	1,049.0
Massachusetts							
September 1998	7.9	–	742.3	65.6	114.0	1,090.3	1,204.3
August 1998	8.9	–	947.5	58.2	73.8	1,215.3	1,289.1
September 1997	7.6	–	761.6	90.1	563.1	420.9	984.1
New Hampshire							
September 1998	2.5	–	66.5	87.5	W	W	142.2
August 1998	2.1	–	72.4	66.5	W	W	319.3
September 1997	2.1	–	47.6	123.6	25.6	83.2	108.9
Rhode Island							
September 1998	W	–	93.1	25.7	W	W	103.7
August 1998	W	–	103.4	21.6	W	W	100.4
September 1997	W	–	74.3	24.8	89.7	–	89.7
Vermont							
September 1998	W	–	11.3	51.6	W	27.1	W
August 1998	W	–	14.3	38.6	–	W	W
September 1997	W	–	11.9	56.1	W	W	30.1
Subdistrict IB							
September 1998	56.1	W	7,295.0	1,905.7	2,847.8	4,098.2	6,946.0
August 1998	54.1	W	7,442.2	1,568.8	4,975.1	5,827.4	10,802.5
September 1997	47.3	W	7,801.7	1,918.6	2,267.6	2,582.4	4,849.9
Delaware							
September 1998	1.7	–	W	208.8	W	241.1	W
August 1998	2.0	–	W	W	W	381.1	W
September 1997	1.4	–	W	199.6	W	206.9	W
District of Columbia							
September 1998	–	–	W	–	W	–	W
August 1998	–	–	W	–	W	–	W
September 1997	–	–	W	–	W	–	W
Maryland							
September 1998	6.0	–	418.4	93.7	269.2	NA	448.4
August 1998	6.4	–	343.8	W	629.6	101.2	730.9
September 1997	6.3	–	407.3	113.1	W	W	412.4
New Jersey							
September 1998	NA	–	3,834.6	409.6	884.2	916.4	1,800.6
August 1998	NA	–	3,728.6	349.2	906.5	781.9	1,688.4
September 1997	14.8	W	4,055.3	324.3	418.5	560.9	979.4
New York							
September 1998	12.9	–	1,415.7	490.2	1,107.7	2,092.5	3,200.2
August 1998	11.2	–	1,433.8	381.4	2,263.8	2,409.0	4,672.7
September 1997	9.6	–	1,329.2	500.0	974.7	1,100.6	2,075.3
Pennsylvania							
September 1998	14.7	W	1,579.4	703.4	528.4	668.9	1,197.3
August 1998	14.7	W	1,890.7	607.9	988.0	2,154.3	3,142.3
September 1997	15.1	W	1,968.7	781.6	W	W	1,149.4

See footnotes at end of table.

Table 49. Prime Supplier Sales Volumes of Aviation Fuels, Propane, and Residual Fuel Oil by PAD District and State

(Thousand Gallons per Day) — Continued

Geographic Area Month	Aviation Gasoline	Naphtha-Type Jet Fuel	Kerosene-Type Jet Fuel	Propane (Consumer Grade)	Residual Fuel Oil		
					Sulfur Less Than or Equal to 1 Percent	Sulfur Greater Than 1 Percent	Total Residual Fuel Oil
Subdistrict IC							
September 1998	118.4	W	5,616.6	3,752.9	W	W	5,405.7
August 1998	115.1	W	5,902.5	3,356.9	2,748.1	5,324.1	8,072.2
September 1997	116.0	W	6,144.5	4,329.0	2,175.0	3,865.9	6,040.8
Florida							
September 1998	53.8	–	2,262.0	621.5	W	W	3,767.4
August 1998	54.1	–	2,576.9	627.9	W	W	5,344.4
September 1997	55.5	–	2,838.7	701.0	2,079.1	2,060.7	4,139.8
Georgia							
September 1998	23.0	W	1,468.4	891.9	–	177.1	177.1
August 1998	21.4	W	1,496.3	684.4	–	167.7	167.7
September 1997	20.9	W	1,395.1	770.9	–	433.8	433.8
North Carolina							
September 1998	21.3	–	773.2	1,381.4	W	W	615.4
August 1998	18.7	–	670.7	1,218.1	W	W	573.4
September 1997	22.8	–	687.3	1,686.1	W	W	587.7
South Carolina							
September 1998	6.8	–	136.7	411.9	W	W	W
August 1998	7.2	–	142.3	405.2	W	W	W
September 1997	7.6	–	115.4	626.6	W	W	W
Virginia							
September 1998	10.6	–	957.3	367.3	241.9	372.1	614.1
August 1998	10.8	–	997.9	362.8	1,012.1	691.1	1,703.2
September 1997	6.1	–	1,088.5	457.9	W	W	601.4
West Virginia							
September 1998	3.0	–	19.0	79.0	W	–	W
August 1998	2.8	–	18.4	58.5	W	W	W
September 1997	3.2	–	19.4	86.5	–	W	W
PAD District II							
September 1998	279.8	W	9,353.8	11,114.2	W	W	347.8
August 1998	281.0	W	10,272.4	8,048.7	W	W	580.0
September 1997	273.0	W	9,989.9	12,373.3	W	W	430.5
Illinois							
September 1998	14.4	–	1,435.9	1,405.4	W	–	W
August 1998	W	–	1,412.0	1,040.4	W	W	W
September 1997	W	–	1,285.9	1,518.0	–	43.9	43.9
Indiana							
September 1998	14.3	–	1,004.5	723.7	W	W	W
August 1998	13.0	–	NA	513.0	W	W	W
September 1997	22.7	–	1,076.1	756.9	W	W	5.6
Iowa							
September 1998	18.7	–	118.3	877.3	–	–	–
August 1998	18.2	–	125.4	507.7	–	–	–
September 1997	10.9	–	69.0	728.2	–	W	W
Kansas							
September 1998	12.2	–	153.0	1,918.1	–	W	W
August 1998	14.8	–	185.4	1,506.4	–	W	W
September 1997	12.4	–	186.5	2,451.5	–	–	–
Kentucky							
September 1998	4.6	–	W	429.9	W	W	W
August 1998	4.0	–	622.9	426.5	W	W	W
September 1997	3.9	–	542.7	570.6	W	W	W
Michigan							
September 1998	46.4	–	771.6	1,237.6	–	W	W
August 1998	45.2	–	857.8	772.2	–	16.2	16.2
September 1997	35.3	–	961.5	1,004.6	–	W	W
Minnesota							
September 1998	W	–	761.3	793.3	W	W	101.1
August 1998	39.0	–	1,256.2	603.9	–	138.1	138.1
September 1997	30.0	–	1,202.3	954.9	W	W	169.3
Missouri							
September 1998	16.3	–	1,317.2	1,071.6	–	–	–
August 1998	15.6	–	1,322.2	710.5	W	–	W
September 1997	15.4	–	1,260.4	1,332.9	–	W	W

See footnotes at end of table.

Table 49. Prime Supplier Sales Volumes of Aviation Fuels, Propane, and Residual Fuel Oil by PAD District and State

(Thousand Gallons per Day) — Continued

Geographic Area Month	Aviation Gasoline	Naphtha-Type Jet Fuel	Kerosene-Type Jet Fuel	Propane (Consumer Grade)	Residual Fuel Oil		
					Sulfur Less Than or Equal to 1 Percent	Sulfur Greater Than 1 Percent	Total Residual Fuel Oil
Nebraska							
September 1998	W	–	114.1	439.6	–	W	W
August 1998	W	–	111.4	291.6	–	–	–
September 1997	W	–	114.7	391.5	–	W	W
North Dakota							
September 1998	NA	–	W	NA	–	W	W
August 1998	3.9	–	NA	172.6	–	–	–
September 1997	4.9	–	20.0	203.2	–	–	–
Ohio							
September 1998	45.6	W	1,348.1	576.7	W	W	33.0
August 1998	54.1	W	1,518.0	374.9	W	W	117.5
September 1997	58.9	W	1,391.7	665.6	W	W	19.8
Oklahoma							
September 1998	10.7	–	532.0	376.1	–	–	–
August 1998	11.2	–	659.1	303.0	–	–	–
September 1997	12.6	W	555.0	498.9	–	W	W
South Dakota							
September 1998	7.9	–	99.2	NA	–	W	W
August 1998	8.7	–	47.5	132.2	–	W	W
September 1997	8.1	–	84.5	170.8	–	W	W
Tennessee							
September 1998	23.1	–	965.0	300.1	W	W	13.2
August 1998	25.2	–	1,049.6	266.5	W	W	18.5
September 1997	23.7	–	1,014.2	448.2	W	W	21.2
Wisconsin							
September 1998	W	–	170.7	619.6	–	W	W
August 1998	W	–	194.1	427.3	W	W	W
September 1997	14.2	–	225.6	677.6	W	W	W
PAD District III							
September 1998	140.6	W	14,748.0	13,712.1	938.8	7,339.6	8,278.4
August 1998	156.3	W	16,766.4	12,918.0	664.0	4,760.6	5,424.5
September 1997	145.7	W	16,205.5	13,682.1	700.5	5,695.2	6,395.8
Alabama							
September 1998	8.8	W	411.7	431.8	W	W	W
August 1998	10.6	W	420.5	288.5	W	W	125.3
September 1997	10.9	W	172.3	394.3	W	W	176.4
Arkansas							
September 1998	12.7	–	137.5	308.3	–	–	–
August 1998	12.2	–	139.5	169.7	–	–	–
September 1997	12.2	–	127.0	358.2	–	–	–
Louisiana							
September 1998	9.4	–	2,683.5	1,302.5	–	4,459.4	4,459.4
August 1998	12.3	–	3,041.8	838.7	W	W	2,965.1
September 1997	12.6	–	3,675.1	2,121.3	W	W	4,036.4
Mississippi							
September 1998	9.0	W	796.7	644.5	W	W	817.1
August 1998	10.8	W	706.7	720.1	W	NA	W
September 1997	10.0	W	1,029.9	676.6	W	W	W
New Mexico							
September 1998	11.8	–	213.6	229.6	W	–	W
August 1998	14.6	–	216.1	212.8	W	–	W
September 1997	13.4	W	176.2	261.3	W	–	W
Texas							
September 1998	88.8	–	10,505.0	10,795.4	W	W	2,880.8
August 1998	95.8	–	12,241.7	10,688.2	W	W	1,849.2
September 1997	86.5	–	11,025.0	9,870.5	127.9	1,449.4	1,577.2
PAD District IV							
September 1998	47.9	–	1,444.3	868.5	W	W	28.4
August 1998	51.9	–	1,781.4	789.5	W	W	32.7
September 1997	39.1	W	1,649.5	1,031.7	W	W	41.8
Colorado							
September 1998	20.3	–	605.8	298.9	W	–	W
August 1998	23.0	–	771.6	231.2	W	–	W
September 1997	15.9	–	750.0	312.3	W	–	W

See footnotes at end of table.

Table 49. Prime Supplier Sales Volumes of Aviation Fuels, Propane, and Residual Fuel Oil by PAD District and State

(Thousand Gallons per Day) — Continued

Geographic Area Month	Aviation Gasoline	Naphtha-Type Jet Fuel	Kerosene-Type Jet Fuel	Propane (Consumer Grade)	Residual Fuel Oil		
					Sulfur Less Than or Equal to 1 Percent	Sulfur Greater Than 1 Percent	Total Residual Fuel Oil
Idaho							
September 1998	W	–	75.7	59.1	–	–	–
August 1998	6.7	–	86.7	55.5	W	–	W
September 1997	5.9	–	86.8	62.6	–	W	W
Montana							
September 1998	11.9	–	93.4	148.8	–	W	W
August 1998	W	–	101.6	154.8	–	W	W
September 1997	W	–	87.3	187.6	–	W	W
Utah							
September 1998	7.6	–	654.5	110.9	W	–	W
August 1998	7.3	–	807.7	110.6	W	–	W
September 1997	7.0	W	708.8	136.0	W	W	W
Wyoming							
September 1998	W	–	14.9	250.8	W	W	W
August 1998	W	–	13.8	237.4	W	W	W
September 1997	W	–	16.7	333.3	W	W	W
PAD District V							
September 1998	272.1	10.5	18,710.2	2,314.6	1,654.0	3,828.0	5,482.0
August 1998	249.5	14.0	19,557.8	1,978.3	1,182.0	3,809.0	4,991.0
September 1997	262.1	20.4	19,296.2	2,469.1	1,547.7	4,747.1	6,294.8
Alaska							
September 1998	100.5	W	2,479.2	W	–	–	–
August 1998	67.3	W	2,524.4	W	–	–	–
September 1997	92.0	W	3,018.7	W	–	–	–
Arizona							
September 1998	16.1	–	725.4	177.6	W	–	W
August 1998	16.8	–	921.6	143.4	W	–	W
September 1997	15.1	–	792.2	248.5	W	–	W
California							
September 1998	98.7	W	11,397.9	1,343.6	W	W	2,079.3
August 1998	102.8	W	11,341.3	1,168.1	395.9	1,620.2	2,016.1
September 1997	98.7	W	10,952.0	1,339.3	W	W	2,345.9
Hawaii							
September 1998	W	–	917.9	W	W	W	W
August 1998	W	–	1,087.5	W	W	W	W
September 1997	W	–	1,040.7	W	W	W	W
Nevada							
September 1998	14.4	–	741.8	110.8	W	–	W
August 1998	13.5	–	663.5	86.6	W	W	W
September 1997	15.2	–	787.6	126.6	W	–	W
Oregon							
September 1998	W	–	597.4	126.2	–	455.6	455.6
August 1998	W	–	689.9	108.3	W	W	332.9
September 1997	W	–	580.1	132.7	NA	405.2	445.5
Washington							
September 1998	23.3	–	1,850.6	444.8	–	1,698.7	1,698.7
August 1998	28.7	–	2,329.6	359.7	W	W	1,675.9
September 1997	23.7	–	2,124.9	474.8	W	W	2,156.3

Dash (–) = No data reported.
NA = Not available.
W = Withheld to avoid disclosure of individual company data.
Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual.* Totals may not equal the sum of the components due to rounding.
Source: Energy Information Administration, Form EIA-782C, "Monthly Report of Prime Supplier Sales of Petroleum Products Sold for Local Consumption."

Table 50. Prime Supplier Sales Volumes of Distillate Fuel Oils and Kerosene by PAD District and State

(Thousand Gallons per Day)

Geographic Area Month	Kerosene	No. 1 Distillate	No. 2 Distillate					No. 4 Fuel[a]	Total Distillate and Kerosene
			No. 2 Fuel Oil	No. 2 Diesel Fuel			No. 2 Distillate		
				Low-Sulfur	High-Sulfur	Total			
United States									
September 1998	1,835.1	1,206.0	22,609.6	94,563.1	20,897.9	115,461.1	138,070.7	495.5	141,607.4
August 1998	1,650.5	817.1	20,522.2	92,260.8	20,399.3	112,660.1	133,182.3	501.3	136,151.2
September 1997	2,299.1	1,134.2	27,193.1	91,541.8	21,221.4	112,763.1	139,956.3	443.3	143,832.9
PAD District I									
September 1998	917.4	NA	13,449.7	25,948.5	4,279.1	30,227.6	43,677.3	383.5	45,219.9
August 1998	692.9	195.1	11,637.9	25,472.1	4,068.9	29,541.0	41,178.9	400.8	42,467.7
September 1997	1,395.1	161.9	16,449.0	24,340.0	4,149.3	28,489.3	44,938.3	306.6	46,801.8
Subdistrict IA									
September 1998	210.8	W	3,377.2	2,497.4	500.4	2,997.8	6,375.0	W	6,675.6
August 1998	89.5	W	2,529.4	2,410.6	409.3	2,819.9	5,349.3	W	5,505.8
September 1997	253.4	W	4,267.4	2,463.2	325.1	2,788.3	7,055.7	W	7,401.1
Connecticut									
September 1998	W	W	716.9	W	W	684.5	1,401.4	21.7	1,494.4
August 1998	25.0	W	565.6	W	W	661.1	1,226.7	W	1,269.6
September 1997	18.3	W	1,007.9	W	W	668.4	1,676.3	W	1,711.9
Maine									
September 1998	59.8	W	680.5	479.9	41.5	521.3	1,201.8	W	1,265.8
August 1998	24.4	W	517.8	457.5	29.9	487.3	1,005.2	W	1,037.7
September 1997	113.4	W	804.8	444.7	18.0	462.8	1,267.6	W	1,390.7
Massachusetts									
September 1998	28.3	–	1,080.6	817.9	263.1	1,081.0	2,161.6	43.5	2,233.4
August 1998	W	–	820.6	799.8	198.4	998.2	1,818.8	W	1,871.5
September 1997	42.6	–	1,361.8	W	W	1,009.2	2,371.0	48.4	2,462.1
New Hampshire									
September 1998	38.9	W	422.6	286.0	7.9	294.0	716.6	W	766.9
August 1998	15.3	–	314.5	279.6	6.1	285.7	600.3	5.3	620.9
September 1997	65.5	W	520.6	279.6	7.0	286.7	807.2	W	880.4
Rhode Island									
September 1998	W	W	383.0	W	W	316.0	699.0	W	710.8
August 1998	W	–	250.6	W	W	292.3	542.9	W	546.8
September 1997	W	W	470.0	252.8	17.1	269.9	740.0	5.2	751.2
Vermont									
September 1998	4.9	W	93.6	88.5	12.4	101.0	194.6	W	204.3
August 1998	1.4	–	60.2	84.2	11.1	95.3	155.5	2.4	159.3
September 1997	W	W	102.3	80.0	11.4	91.4	193.7	3.3	204.7
Subdistrict IB									
September 1998	402.5	NA	6,866.1	9,214.9	667.4	9,882.3	16,748.4	281.5	17,639.9
August 1998	425.5	172.7	5,933.5	8,758.6	524.5	9,283.1	15,216.7	321.2	16,136.1
September 1997	652.3	156.6	8,587.3	8,399.2	929.1	9,328.3	17,915.5	200.7	18,925.2
Delaware									
September 1998	W	–	93.1	270.0	8.0	278.0	371.1	W	376.2
August 1998	W	–	113.8	232.2	W	W	W	W	358.1
September 1997	W	–	112.6	W	W	254.3	366.9	W	379.2
District of Columbia									
September 1998	–	–	21.9	26.7	W	W	W	W	108.1
August 1998	–	–	19.7	26.2	W	W	W	W	208.7
September 1997	W	–	93.7	W	W	31.1	124.8	W	133.6
Maryland									
September 1998	28.8	W	395.3	912.3	49.5	961.8	1,357.1	W	1,389.4
August 1998	13.8	W	331.3	852.2	65.3	917.5	1,248.8	W	1,267.9
September 1997	92.0	W	630.3	883.8	143.2	1,027.0	1,657.3	W	1,755.1
New Jersey									
September 1998	W	W	1,983.4	2,489.8	285.4	2,775.2	4,758.6	76.8	4,973.1
August 1998	178.2	W	1,526.7	2,264.5	173.7	2,438.3	3,964.9	W	4,219.2
September 1997	127.1	W	3,027.2	2,147.7	277.1	2,424.7	5,452.0	W	5,645.4
New York									
September 1998	174.0	W	2,070.8	2,040.0	W	W	W	139.7	4,789.8
August 1998	W	W	1,612.7	1,801.0	190.8	1,991.8	3,604.5	115.1	4,026.9
September 1997	177.8	W	2,252.6	1,756.0	111.6	1,867.5	4,120.1	W	4,577.4
Pennsylvania									
September 1998	97.6	W	2,301.6	3,476.1	122.6	3,598.6	5,900.3	W	6,003.2
August 1998	52.2	W	2,329.3	3,582.5	85.2	3,667.6	5,997.0	W	6,055.2
September 1997	235.0	W	2,470.9	3,336.6	387.0	3,723.6	6,194.5	W	6,434.5

See footnotes at end of table.

Table 50. Prime Supplier Sales Volumes of Distillate Fuel Oils and Kerosene by PAD District and State

(Thousand Gallons per Day) — Continued

Geographic Area Month	Kerosene	No. 1 Distillate	No. 2 Distillate					No. 4 Fuel[a]	Total Distillate and Kerosene
			No. 2 Fuel Oil	No. 2 Diesel Fuel			No. 2 Distillate		
				Low-Sulfur	High-Sulfur	Total			
Subdistrict IC									
September 1998	304.1	W	3,206.5	14,236.2	3,111.2	17,347.4	20,553.9	W	20,904.3
August 1998	177.9	W	3,174.9	14,302.9	3,135.1	17,438.0	20,612.9	W	20,825.8
September 1997	489.4	W	3,594.3	13,477.6	2,895.1	16,372.7	19,967.0	W	20,475.6
Florida									
September 1998	W	–	532.4	3,696.0	1,197.5	4,893.4	5,425.8	W	5,476.0
August 1998	W	–	611.5	3,861.0	1,399.6	5,260.7	5,872.2	W	5,891.9
September 1997	W	–	658.1	3,613.8	941.7	4,555.5	5,213.6	W	5,235.0
Georgia									
September 1998	W	W	390.0	3,680.4	678.5	4,358.9	4,748.9	–	4,769.6
August 1998	9.8	W	392.7	3,619.2	620.2	4,239.4	4,632.1	W	4,644.0
September 1997	W	–	487.6	3,356.0	554.0	3,910.0	4,397.5	W	4,419.0
North Carolina									
September 1998	93.3	W	687.8	2,378.3	507.0	2,885.3	3,573.1	W	3,678.5
August 1998	55.2	W	665.1	2,414.6	469.0	2,883.6	3,548.7	W	3,609.8
September 1997	197.0	W	724.6	2,295.2	562.7	2,857.9	3,582.5	W	3,780.3
South Carolina									
September 1998	W	W	350.4	1,507.6	226.5	1,734.1	2,084.5	–	2,152.6
August 1998	W	W	270.5	1,483.1	203.4	1,686.5	1,957.0	–	2,003.0
September 1997	W	–	348.7	1,315.8	185.4	1,501.2	1,849.9	W	1,940.7
Virginia									
September 1998	72.0	W	831.9	2,432.1	368.7	2,800.8	3,632.7	W	3,728.3
August 1998	48.0	W	729.0	2,393.7	328.5	2,722.2	3,451.2	W	3,514.7
September 1997	140.2	W	999.9	2,377.3	440.3	2,817.6	3,817.4	W	3,968.6
West Virginia									
September 1998	W	W	414.0	541.9	133.0	674.9	1,088.9	–	1,099.3
August 1998	W	W	506.1	531.4	114.4	645.7	1,151.8	–	1,162.4
September 1997	W	W	375.5	519.5	211.0	730.5	1,106.0	–	1,132.0
PAD District II									
September 1998	W	502.0	7,011.5	32,225.7	5,502.4	37,728.1	44,739.6	W	45,619.6
August 1998	W	309.5	6,549.2	30,160.8	4,797.8	34,958.6	41,507.8	W	41,992.2
September 1997	645.6	568.2	8,166.6	31,141.5	5,015.1	36,156.6	44,323.2	11.1	45,548.0
Illinois									
September 1998	W	W	1,141.7	3,148.9	661.6	3,810.5	4,952.2	–	5,099.6
August 1998	14.1	NA	1,279.5	2,966.4	448.6	3,415.0	4,694.5	–	4,752.8
September 1997	27.0	83.0	1,481.5	2,757.1	425.3	3,182.4	4,663.9	–	4,774.0
Indiana									
September 1998	W	26.9	735.2	3,705.7	441.1	4,146.8	4,882.0	W	4,923.7
August 1998	24.9	W	765.1	3,441.2	222.7	3,663.8	4,428.9	W	4,469.0
September 1997	60.7	W	1,072.6	3,295.1	464.0	3,759.1	4,831.7	W	4,912.4
Iowa									
September 1998	2.7	NA	256.5	1,917.0	183.1	2,100.0	2,356.6	–	2,398.2
August 1998	W	W	148.8	1,698.1	127.7	1,825.8	1,974.5	–	1,996.3
September 1997	8.2	49.1	251.8	2,155.4	113.2	2,268.6	2,520.4	–	2,577.7
Kansas									
September 1998	NA	19.7	87.0	1,954.9	NA	2,192.4	2,279.3	–	2,300.3
August 1998	1.5	12.2	65.6	1,793.7	248.9	2,042.7	2,108.3	–	2,122.0
September 1997	3.2	23.6	87.4	1,820.3	292.1	2,112.4	2,199.7	–	2,226.5
Kentucky									
September 1998	23.6	W	738.4	1,812.1	419.7	2,231.8	2,970.2	W	3,004.2
August 1998	11.6	W	660.3	1,706.2	387.8	2,094.0	2,754.3	W	2,772.0
September 1997	56.8	W	730.5	1,540.8	489.8	2,030.6	2,761.0	W	2,819.0
Michigan									
September 1998	18.5	NA	555.3	2,523.7	365.4	2,889.1	3,444.4	–	3,514.0
August 1998	4.7	NA	525.5	2,401.9	325.0	2,726.8	3,252.4	–	3,288.8
September 1997	58.5	36.5	794.0	2,306.4	261.3	2,567.7	3,361.7	–	3,456.7
Minnesota									
September 1998	W	90.5	566.6	1,668.2	304.4	1,972.6	2,539.1	W	2,785.1
August 1998	W	62.7	521.3	1,547.5	274.3	1,821.8	2,343.1	W	2,467.7
September 1997	W	135.2	549.3	1,931.5	343.0	2,274.6	2,823.9	W	3,197.0
Missouri									
September 1998	2.6	NA	148.3	2,497.1	223.4	2,720.5	2,868.8	–	2,889.7
August 1998	1.5	12.2	144.9	2,400.3	195.2	2,595.5	2,740.3	–	2,754.1
September 1997	5.6	17.0	254.3	2,548.1	200.0	2,748.1	3,002.4	–	3,025.1

See footnotes at end of table.

Table 50. Prime Supplier Sales Volumes of Distillate Fuel Oils and Kerosene by PAD District and State

(Thousand Gallons per Day) — Continued

Geographic Area Month	Kerosene	No. 1 Distillate	No. 2 Distillate					No. 4 Fuel[a]	Total Distillate and Kerosene
			No. 2 Fuel Oil	No. 2 Diesel Fuel			No. 2 Distillate		
				Low-Sulfur	High-Sulfur	Total			
Nebraska									
September 1998	NA	23.1	108.6	1,254.4	632.2	1,886.6	1,995.2	–	2,018.6
August 1998	W	W	80.9	1,082.0	731.9	1,813.9	1,894.7	–	1,904.8
September 1997	0.9	41.8	84.3	1,061.8	446.6	1,508.4	1,592.7	–	1,635.5
North Dakota									
September 1998	W	W	NA	NA	NA	NA	NA	–	NA
August 1998	W	W	NA	671.8	NA	739.2	944.5	–	955.8
September 1997	W	W	W	787.9	W	W	1,209.4	–	1,256.0
Ohio									
September 1998	46.0	30.8	1,033.6	3,574.6	837.3	4,411.8	5,445.4	–	5,522.2
August 1998	28.2	W	1,061.9	3,418.2	719.5	4,137.7	5,199.6	W	5,252.8
September 1997	96.6	W	1,088.1	3,501.1	702.7	4,203.9	5,292.0	W	5,395.9
Oklahoma									
September 1998	W	W	661.7	2,010.1	250.3	2,260.4	2,922.1	–	2,923.9
August 1998	0.3	1.9	419.5	1,976.2	256.7	2,232.9	2,652.5	–	2,654.6
September 1997	W	W	439.1	2,025.8	322.5	2,348.3	2,787.4	–	2,794.6
South Dakota									
September 1998	NA	22.1	NA	674.5	NA	699.7	734.0	–	757.5
August 1998	W	W	NA	587.4	17.8	605.1	634.0	–	646.4
September 1997	1.3	36.8	W	761.5	W	W	842.6	–	880.7
Tennessee									
September 1998	29.5	W	225.1	2,709.3	599.3	3,308.6	3,533.6	W	3,571.6
August 1998	19.1	W	245.2	2,546.5	551.5	3,097.9	3,343.1	W	3,368.7
September 1997	W	–	429.5	2,529.1	609.9	3,139.0	3,568.5	W	3,650.7
Wisconsin									
September 1998	3.7	66.6	495.8	2,085.5	249.1	2,334.6	2,830.3	–	2,900.6
August 1998	W	41.9	396.5	1,923.6	222.9	2,146.5	2,543.0	W	2,586.3
September 1997	W	70.8	551.0	2,119.5	195.2	2,314.8	2,865.8	W	2,946.3
PAD District III									
September 1998	496.4	W	1,592.2	14,811.0	6,601.8	21,412.8	23,005.0	W	23,530.1
August 1998	773.5	W	1,882.2	15,215.9	7,038.9	22,254.8	24,136.9	W	24,938.7
September 1997	203.3	1.9	1,992.9	14,995.0	7,397.8	22,392.8	24,385.7	–	24,590.9
Alabama									
September 1998	9.3	–	336.1	1,621.5	384.1	2,005.6	2,341.7	–	2,351.0
August 1998	7.1	–	333.1	1,631.8	321.0	1,952.8	2,286.0	–	2,293.1
September 1997	11.4	–	404.8	1,487.9	473.8	1,961.7	2,366.5	–	2,377.9
Arkansas									
September 1998	1.1	–	NA	1,748.3	636.3	2,384.6	2,446.2	–	2,447.3
August 1998	0.8	–	NA	1,820.8	570.7	2,391.6	2,474.1	–	2,474.9
September 1997	W	W	108.1	1,702.7	630.4	2,333.2	2,441.3	–	2,443.8
Louisiana									
September 1998	W	–	341.0	1,414.8	W	W	W	–	4,406.9
August 1998	W	–	588.0	1,511.9	W	W	W	–	5,191.8
September 1997	W	–	389.1	W	2,757.5	W	W	–	4,754.1
Mississippi									
September 1998	W	–	221.2	1,280.6	W	W	2,048.3	W	2,051.6
August 1998	W	–	209.1	1,293.5	W	W	2,087.3	W	2,091.1
September 1997	7.1	–	186.8	1,423.8	510.7	1,934.5	2,121.3	–	2,128.4
New Mexico									
September 1998	W	W	–	960.6	W	W	W	–	1,067.8
August 1998	W	W	–	1,061.0	W	W	W	–	1,209.5
September 1997	W	W	–	W	183.3	W	W	–	1,072.8
Texas									
September 1998	W	W	632.5	7,785.2	2,610.6	10,395.8	11,028.2	–	11,205.3
August 1998	W	W	669.4	7,896.8	2,679.2	10,576.0	11,245.4	–	11,678.3
September 1997	148.9	0.5	904.2	7,918.2	2,842.2	10,760.3	11,664.5	–	11,813.9
PAD District IV									
September 1998	W	W	W	5,345.2	W	W	6,280.6	–	6,369.6
August 1998	W	W	W	5,395.8	W	W	6,374.1	–	6,431.4
September 1997	7.0	80.5	W	5,070.5	W	W	6,145.4	–	6,232.9
Colorado									
September 1998	W	W	W	1,497.3	W	W	1,706.4	–	1,728.1
August 1998	W	W	W	1,533.5	W	W	1,704.2	–	1,721.7
September 1997	6.1	23.9	W	1,403.0	W	W	1,618.4	–	1,648.3

See footnotes at end of table.

Table 50. Prime Supplier Sales Volumes of Distillate Fuel Oils and Kerosene by PAD District and State

(Thousand Gallons per Day) — Continued

Geographic Area Month	Kerosene	No. 1 Distillate	No. 2 Distillate					No. 4 Fuel[a]	Total Distillate and Kerosene
			No. 2 Fuel Oil	No. 2 Diesel Fuel			No. 2 Distillate		
				Low-Sulfur	High-Sulfur	Total			
Idaho									
September 1998	W	W	NA	688.6	227.9	916.5	918.1	–	933.7
August 1998	–	14.5	NA	703.7	268.8	972.6	974.1	–	988.6
September 1997	W	W	W	677.7	W	W	934.5	–	943.8
Montana									
September 1998	–	23.5	–	W	W	858.3	858.3	–	881.8
August 1998	–	11.5	W	W	W	W	893.3	–	904.8
September 1997	–	24.4	–	W	W	948.2	948.2	–	972.7
Utah									
September 1998	W	W	NA	1,046.4	182.4	1,228.9	1,299.7	–	1,309.4
August 1998	W	W	NA	1,093.4	233.5	1,326.9	1,395.4	–	1,400.8
September 1997	W	W	W	848.5	W	W	1,161.5	–	1,165.6
Wyoming									
September 1998	W	W	–	W	W	1,498.2	1,498.2	–	1,516.6
August 1998	–	8.4	–	W	W	1,407.1	1,407.1	–	1,415.4
September 1997	–	19.8	–	W	W	1,482.7	1,482.7	–	1,502.5
PAD District V									
September 1998	48.3	W	W	16,232.8	W	W	20,368.2	W	20,868.2
August 1998	24.2	227.7	W	16,016.2	W	W	19,984.5	84.8	20,321.2
September 1997	48.1	321.7	W	15,994.8	W	W	20,163.7	125.7	20,659.3
Alaska									
September 1998	W	321.7	W	73.2	W	W	1,026.8	W	1,436.8
August 1998	W	211.6	W	45.2	W	W	W	W	1,110.3
September 1997	W	293.4	W	17.5	W	W	891.8	W	1,279.8
Arizona									
September 1998	W	–	–	1,325.0	W	W	W	–	1,525.4
August 1998	W	W	–	1,352.5	201.6	1,554.1	1,554.1	–	1,554.7
September 1997	W	–	–	1,413.7	W	W	W	–	1,609.5
California									
September 1998	W	–	–	10,720.4	447.5	11,167.9	11,167.9	W	11,189.4
August 1998	W	–	–	10,534.2	393.8	10,928.0	10,928.0	W	10,945.9
September 1997	NA	W	NA	10,452.1	478.2	10,930.3	10,940.0	W	10,970.2
Hawaii									
September 1998	–	–	–	97.8	440.0	537.8	537.8	–	537.8
August 1998	–	–	–	90.3	409.7	500.0	500.0	–	500.0
September 1997	–	–	–	94.8	W	W	W	–	466.2
Nevada									
September 1998	W	–	–	623.2	W	W	W	–	674.0
August 1998	W	–	–	621.5	W	W	W	–	677.1
September 1997	–	–	–	754.3	65.1	819.4	819.4	–	819.4
Oregon									
September 1998	W	NA	–	1,403.7	705.1	2,108.9	2,108.9	W	2,139.5
August 1998	W	1.6	–	1,386.1	664.2	2,050.4	2,050.4	W	2,072.3
September 1997	NA	W	–	1,318.3	710.3	2,028.6	2,028.6	W	2,051.0
Washington									
September 1998	W	W	20.8	1,989.5	1,317.9	3,307.4	3,328.2	W	3,365.4
August 1998	3.3	W	22.3	1,986.3	1,429.8	3,416.0	3,438.3	W	3,460.9
September 1997	W	20.8	10.1	1,944.1	1,454.5	3,398.6	3,408.7	W	3,463.1

Dash (–) = No data reported.
NA = Not available.
W = Withheld to avoid disclosure of individual company data.
Notes: Total Distillate = No. 1 Distillate + No. 2 Distillate + No. 4 Fuel Oil.
Notes: Values shown for the current month are preliminary. Values shown for previous months are revised. Data are final upon publication in the *Petroleum Marketing Annual.* Totals may not equal the sum of the components due to rounding.
[a] Includes No. 4 fuel oil and No. 4 diesel fuel.
Source: Energy Information Administration, Form EIA-782C, "Monthly Report of Prime Supplier Sales of Petroleum Products Sold for Local Consumption."

Explanatory Notes

Explanatory Notes

The EIA-782 Survey

Background

The EIA-782 surveys were implemented in 1983 to fulfill the data requirements necessary to meet Energy Information Administration (EIA) legislative mandates and user community data needs. The requirements include petroleum product price, market distribution, demand (or sales), and product supply data, which are needed for a complete evaluation of petroleum market performance. The EIA-782 series includes the Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report"; Form EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report"; and Form EIA-782C, "Monthly Report of Prime Supplier Sales of Petroleum Products Sold for Local Consumption."

The Form EIA-782A collects refiner and gas plant operator monthly price and volume data at a State level on 14 petroleum products for various retail and wholesale marketing categories. The Form EIA-782B collects reseller/retailer monthly price and volume data at a State level for gasoline, No. 2 distillate, propane, and residual fuel. The Form EIA-782C collects prime supplier monthly volume data on 15 petroleum products. The EIA-782 forms were modified in October 1993 to reflect the changes in refined petroleum products arising out of the requirements of the Clean Air Act Amendments of 1990 (CAAA). The CAAA require that oxygenated gasoline be sold during the winter months in carbon monoxide nonattainment areas beginning October 1, 1992. They require that reformulated gasoline be sold in ozone nonattainment areas beginning January 1, 1995. Beginning October 1, 1993, diesel fuel sold for on-highway use must be low-sulfur diesel fuel (i.e., diesel fuel containing less than or equal to 0.05 percent sulfur). As a result of these environmental regulations, gasoline data collected on the EIA-782 forms were divided into *conventional*, *oxygenated*, and *reformulate*d categories. Diesel fuel sales were separated into low- and high-sulfur categories. The wholesale gasoline categories on the EIA-782A and EIA-782B forms were also modified to include *dealer tank wagon*, *rack*, and *bulk* sales. The retail categories for propane on the EIA-782A and EIA-782B were expanded to include *residential*, *commercial/institutional*, *industrial*, *sales through company-operated retail outlets*, *petrochemical*, and *other end user* sales.

Discussion of Sample Design

The Form EIA-782A is sent to a census of refiners and gas plant operators. Respondents are selected with certainty due to their small number and because of the relative size of their sales volume.

The Form EIA-782B is sent to a scientifically selected sample of motor gasoline resellers, and distillate, propane, and residual fuel oil resellers and retailers. The Form EIA-863, "Petroleum Product Sales Identification Survey," served as the basis of the sampling frame of dealers. Information obtained from the Form EIA-863 is supplemented with information from the Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report." The sales volumes obtained from these surveys are used to assign measures of size for sampleing. Dealers comprising 5 percent or more of sales in a State were selected with certainty. The remaining units on the frame were each assigned a probability of selection. In this design, the probability was based on the size of the company, as determined by their sales volume, relative to the total for all companies for each geographic area and type-of-sale classification relevant for that company. In addition, a random number between 0 and 1 was assigned to each company. The companies were then ordered by the ratio of the random number minus the random number times the probability to the probability minus the random number times the probability (r-rp)/(p-rp). The first 2,200 companies in this ordering were then selected for the sample. The noncertainty companies were then post-stratified within each geographic/type-of-sale category by their volume. The sample weights, the inverse of the probabilities, were

multiplied by the sample expectation adjustment which was the ratio of the sum of the probabilities of selection for all frame units in the stratum to the actual sample size of the stratum.

The geographic areas were defined as (a) the 24 States in which No. 2 distillate was a significant heating source and 50 States and the District of Columbia for residual and motor gasoline, (b) the 25 States in which propane was a significant energy source, or as (c) the PAD Districts for districts where not all State estimates are provided. The type-of-sale classifications were retail and resale for motor gasoline and residual fuel oil, and residential and nonresidential retail and wholesale for distillate and propane. Four volume-of-sales strata (certainty, zero, low, and high) were defined with volume boundaries differing by State, sales type, and product.

The design of the EIA-782B sample was based on ten target variables: total retail motor gasoline, total wholesale motor gasoline, residential No. 2 fuel oil, other retail No. 2 fuel oil, total wholesale No. 2 fuel oil, residential propane, total other retail propane, wholesale propane, total retail residual fuel oil, and total wholesale residual fuel oil. A sample size of 2,200 was expected to yield a median level of accuracy for each target variable of volume coefficients of variation (CV) of 15 percent for No. 2 distillate and 10 percent for the other products, determined at the publishable State level (24 States for distillate, 25 for propane, 50 States and the District of Columbia for motor gasoline and residual). Studies on the relationship of volume CV to price CV have shown that this will produce price CVs of less than 1 percent. The reliability of current month estimates will vary from these goals due to the deterioration of the frame over time and the changing distributions of price and volume.

Prior to March 1997, the sample design was a linked stratified sample. Within each product, sales type, and geographic area, companies were stratified by the size of the company as determined by their sales volumes. The samples resulting from the separate stratification schemes were combined by means of joint linked selection to yield a sample size of approximately 3,500 companies. Prior to October of 1993, the sample design, the survey sample, and the survey form did not include propane.

The Form EIA-782C was sent to all prime suppliers of any of the selected products on the EIA-782C. A prime supplier is a firm that produces, imports, or transports any of the selected petroleum products across State boundaries and local marketing areas and sells the product to local distributors, local retailers, or end users. They were selected with certainty due to their small number and the relative size of their sales volumes.

Discussion of the Sampling Frame

The EIA-782A survey consists of a census of respondents who either directly or indirectly control a refinery or gas plant facility. The EIA-782A form collects sales data on 14 refined petroleum products. Currently, 133 companies respond to the EIA-782A survey.

The EIA-863 data base provided the sampling frame for the EIA-782B survey. The Form EIA-863, "Petroleum Product Sales Identification Survey," was mailed to approximately 22,000 companies in January 1995, in order to collect 1994 State-level sales volume data for No. 2 distillate, residual, and motor gasoline. The No. 2 distillate data were further identified by residential/nonresidential end-use and non-end-use sales, while the residual and motor gasoline data were identified by end-use and non-end-use sales. The mailing list for the EIA-863 survey was constructed by merging and unduplicating the previous master frame file and approximately 71 State and commercial lists.

Data from the 1994 EIA-821, "Annual Fuel Oil and Kerosene Sales Report" survey were merged with data from the EIA-863 survey to yield a combined file. A transformed and edited version of this file was created to form the sample file used to design and select the EIA-782B sample.

NOTE: Service stations and smaller truck stops selling No. 2 diesel fuel were not specifically included in the frame. Therefore, the EIA-782B end-use category, "sales through company outlets," does not incorporate all sales of No. 2 distillate.

The EIA-782C survey consists of a census of suppliers who produce, import, or transport any of the 15 refined petroleum products listed on the form across State boundaries and local marketing areas, and who sell the product to local distributors, local retailers, or end users. Currently, 204 firms respond to the EIA-782C survey.

Reliability of Data

There are two types of errors possible in an estimate based on a sample survey: sampling and nonsampling. Sampling errors occur because observations are made only on a sample, not on the entire population. Non-sampling errors can be attributed to many sources in the collection and processing of data. The accuracy of survey results is determined by the joint effects of sampling and nonsampling errors.

Measures of Sampling Variability

Tables 14 through 18, 31 through 34, and 38 through 41 utilize a sample of nonrefiners and, therefore, have sampling error. The remainder of the tables published are based on census data; therefore, there is no error due to sampling. The particular sample used for the EIA-782B is one of a large number of all possible samples that could have been selected using the same design. Estimates derived from the different samples would differ from each other. The average of these estimates would be close to the estimate derived from a complete enumeration of the population (a census), assuming that a complete enumeration has the same nonsampling errors as the sample survey.

The sampling error, or standard error of the estimate, is a measure of the variability among the estimates from all possible samples of the same size and design and, thus, is a measure of the precision with which an estimate from a particular sample approximates the results of a complete enumeration.

Nonsampling Errors

Nonsampling errors can be attributed to many sources: (1) inability to obtain complete information about all cases in the sample (i.e., nonresponse), (2) response errors, (3) definitional difficulties, (4) differences in the interpretation of questions, (5) mistakes in recording or coding the data obtained, and (6) other errors of collection, response, coverage, and estimation for missing data. These nonsampling errors also occur in complete censuses.

Although no direct measurement of the biases due to nonsampling errors can be obtained, precautionary steps were taken in all phases of the frame development and data collection, processing, and tabulation processes, in an effort to minimize their influence. In addition, the close cooperative consultation between EIA and the EIA-782 survey respondents and data users results in a more accurate information gathering and reporting process.

Imputation and Estimation

Survey data gathered from the respondents invariably contain incomplete reporting, nonresponse, and values that fail editing. These missing data are estimated, or imputed for, as follows. First, for all survey units, the previous month's reported value and the previous month's predicted value are weighted together to yield a predicted value for the current month. The sum of the weighted, predicted values for nonrespondents in the current month is then multiplied by a chain link multiplier (the ratio of the sum of the weighted, reported values for respondents in the current month to the sum of the weighted, predicted values for respondents in the current month). The resulting estimate for nonreported values is then added to the reported values. That is,

$$\hat{V}_{t.} = \sum_{R,h} W^*_{i,h}\, V_{i,h,t} + \sum_{NR,h} W^*_{j,h}\, V'_{j,h,t}$$

and similarly

$$\hat{Q}_{t.} = \sum_{R,h} W^*_{i,h}\, V_{i,h,t}\, P_{i,h,t} + \sum_{NR,h} W^*_{j,h}\, V'_{j,h,t}\, P'_{j,h,t}$$

where

$$V'_{j,h,t} = \frac{\sum_{R,h,PADD} W^*_{i,h}\, V_{i,h,t}}{\sum_{R,h,PADD} W^*_{i,h}\, \tilde{V}_{i,h,t}}\, \tilde{V}_{j,h,t}$$

$$P'_{j,h,t} = \frac{\sum_{R,h,PADD} P_{i,h,t}}{\sum_{R,h,PADD} \tilde{P}_{i,h,t}}\, \tilde{P}_{j,h,t}$$

and,

$$W^*_{i,h} = \frac{\sum^{N_h} \frac{i}{W_{i,h}}}{n_h} \quad (W_{i,h})$$

$W_{i,h}$ = the weight for company i in stratum h. For resellers/retailers responding to

EIA-782B, $W_{i,h}$ is inversely proportional to the probability of inclusion. For all certainty units $W_{i,h}$ = 1. The certainty units are all respondents to the EIA-782A, the EIA-782C, and the units selected with certainty for the EIA-782B.

N_h = total number of population units in stratum h,

n_h = number of sampled units in stratum h,

$\sum_{R,h}$ = summation across current month respondents i, all strata

$\sum_{NR,h}$ = summation across current month nonrespondents j, all strata

$V_{i,h,t}$ = current month (t) reported volume for company i, in stratum h

$P_{i,h,t}$ = current month (t) reported price for company i, in stratum h

$\hat{V}_t$ = current month (t) estimated total volume,

$\hat{Q}_t$ = current month (t) estimated total revenue,

$\tilde{V}_{i,t}$ = current month (t) predicted volume for company i, respondent,

$\tilde{P}_{i,t}$ = current month (t) predicted price for company i, respondent,

$$\tilde{V}_{i,t} = \alpha V'_{i,t-1} + (1-\alpha)V_{i,t-1}$$

$$\tilde{P}_{i,t} = \alpha P'_{i,t-1} + (1-\alpha)P_{i,t-1}$$

where

$V_{i,t-1}$ = previous month (t-1) reported volume for company i,

$P_{i,t-1}$ = previous month (t-1) reported price for company i,

α = constant between 0 and 1, set by form, product, type of sale and price or volume,

and

$$\hat{P}_{t.} = \frac{\hat{Q}_{t.}}{\hat{V}_{t.}},$$

the resulting estimate of price at the published level for month t.

Multiple product data collection and linked sample selection yield two types of respondents: basic and supplemental. Both types are used for imputation, estimation, and standard errors.

The variance estimate is :

$$VAR(\hat{P}_{t.}) = \frac{1}{\hat{V}_{t.}^2} \sum_k N_k^2 n_k (1-f_k) \frac{M_k}{(\sum_i W_{ik})^2}$$

where

N_k = the number of population units in group k,

n_k = the number of basic and volunteer respondents in group k,

W_{ik} = the sampling weight for respondent i in group k,

$$f_k = \frac{n_k}{N_k}$$

and $\hat{P}_{t.}$ and $\hat{V}_{t.}$ are previously defined.

The term M_k is computed as follows:

$$M_k = \frac{\sum_i (M_{ik})^2}{n_k - 1}$$

where

$$M_{ik} = W_{ik}V_{ik}D_{ik} - \frac{W_{ik}}{(\sum_i W_{ik})} \times (\sum_i W_{ik}V_{ik}D_{ik})$$

and

$D_{ik} = P_{ik} - \hat{P}_{t.}$

V_{ik} = reported volume for respondent i in group k

P_{ik} = reported price for respondent i in group k.

Data Continuity

When the EIA-782 series was implemented in 1983, it replaced prior surveys that had been used to meet the Energy Information Administration's data requirements. The Form EIA-782A replaced the refiner and gas plant operator portions of the Form EIA-460, "Petroleum Industry Monthly Report for Product Prices"; and Form EIA-9A, "No. 2 Distillate Price Monitoring Report"; the Form EIA-782B replaced the nonrefiner portions of the Form EIA-460 and Form EIA-9A; and the Form EIA-782C replaced Form EIA-25, "Prime Supplier's Monthly Report."

Since the transition from the EIA-460, the EIA-9A, and the EIA-25 to the EIA-782 took place over a period of 4 months, rather than occurring at one time, it was possible to compare data from the predecessor surveys with data from the new survey during the transition period for some data elements. This comparative analysis yielded adjustment factors which reflected the estimated overall effect of the changes.

These adjustment factors were applied to the appropriate predecessor survey prices to yield a backcast estimate. A complete description of the estimation of historical data prior to January 1983 is contained in the feature article of the December 1983(3) issue of the PMM.

The backcast price estimation employed the predecessor survey published price as the initial approximation. The initial approximation, however, frequently represented less aggregated product categories and more aggregated seller / sales categories. Therefore, more comparable product categories were formed by volume weighting the disaggregated predecessor survey product prices. For the EIA-9A, comparable categories were formed by subtracting from the price the average taxes reported. Comparable seller / sales categories were formed by multiplying the predecessor price by the ratio of the EIA-782 price for the category to be estimated divided by the volume weighted prices for the aggregate of the EIA-782 categories most comparable to the predecessor category. That is,

$$\hat{\hat{P}}_{460,i} = \hat{P}_{460,j} \frac{\hat{\hat{P}}_{782,i}}{\hat{\hat{P}}_{782,j}}$$

where i represents the EIA-782 category to be backcast and j represents the most similar category on the predecessor survey.

The backcast price series were estimated by multiplying the estimate for the previous time period from the predecessor survey by an adjustment factor:

$$\hat{\hat{P}}_{782,i,t} = \hat{P}_{Predecessor,i,t} \times (Adjustment\ \ Factor)$$

where t = reference month.

Adjustment factors were computed by dividing the EIA-782 December price by the derived December predecessor price for comparable categories:

$$Adjustment\ Factor = \frac{\hat{P}_{782,i,December}}{\hat{\hat{P}}_{Predecessor,i,December}}$$

The EIA-782 December 1982 price for all respondents had to be estimated since not all of the EIA-782 respondents were reporting in December. This estimate was based on the average of the ratios of the prices for the December respondents to the prices for all respondents in January, February, and March of 1982. That is,

$$\hat{\hat{P}}_{782,i,December} = \hat{P}_{782,i,r,December} \div \frac{\sum_{m} \frac{\hat{P}_{782,i,r,m}}{\hat{P}_{782,i,m}}}{3}$$

where r = respondents who reported in the December reference month and m = the months of January, February, and March.

Starting with the September 1990 final estimates, prices published are derived using the sample described under "Discussion of Sample Design." Prices published for January 1984 through August 1990 were derived using different samples and slightly different designs (refer to the 1987 PMA for a further description). Also, the monthly price estimates from January through December 1983 were derived using another sample design (see the December 1983(3) issue of the PMM). Therefore, there may be some minor discontinuity in price estimates between August 1988 and September 1988 and between December 1983 and January 1984.

Table EN1. Federal and State Motor Fuel Taxes[1]
(Cents per Gallon)

	Motor Gasoline	Diesel Fuel	Gasohol		Motor Gasoline	Diesel Fuel	Gasohol
Federal[2]	18.40	24.40	13.00	Mississippi[4]	18.40	18.40	18.40
Average State Tax	19.85	19.65	19.74	Missouri[4]	17.00	17.00	17.00
				Montana[4]	27.75	28.50	27.75
Alabama[4]	18.00	19.00	18.00	Nebraska	24.60	24.60	24.60
Alaska	8.00	8.00	8.00	Nevada[4]	23.75	27.75	23.75
Arizona	18.00	18.00	18.00	New Hampshire	18.16	18.16	18.16
Arkansas	18.60	18.60	18.60	New Jersey[3]	10.50	13.50	10.50
California[3 4]	18.00	18.00	18.00	New Mexico	18.88	19.88	18.88
Colorado	22.00	20.50	22.00	New York[3 4]	22.65	21.85	22.65
Connecticut[3]	32.00	18.00	31.00	North Carolina	21.60	21.60	21.60
Delaware	23.00	22.00	23.00	North Dakota	20.00	20.00	20.00
District of Columbia	20.00	20.00	20.00	Ohio	22.00	22.00	22.00
Florida[4]	13.00	13.00	13.00	Oklahoma	17.00	14.00	17.00
Georgia[3 4]	7.50	7.50	7.50	Oregon[4]	24.00	24.00	24.00
Hawaii[3 4]	16.00	16.00	16.00	Pennsylvania	25.90	30.80	25.90
Idaho	25.00	25.00	22.50	Rhode Island	29.00	29.00	29.00
Illinois[3 4]	19.00	21.50	19.00	South Carolina[4]	16.00	16.00	16.00
Indiana[3]	15.00	16.00	15.00	South Dakota	21.00	21.00	19.00
Iowa[3]	20.00	22.50	19.00	Tennessee	20.00	17.00	20.00
Kansas	18.00	20.00	18.00	Texas	20.00	20.00	20.00
Kentucky	16.40	13.40	16.40	Utah	24.50	24.50	24.50
Louisiana	20.00	20.00	20.00	Vermont	20.00	17.00	20.00
Maine	19.00	20.00	19.00	Virginia[3]	17.50	16.00	17.50
Maryland	23.50	24.25	23.50	Washington[4]	23.00	23.00	23.00
Massachusetts	21.00	21.00	21.00	West Virginia[3]	20.50	20.50	20.50
Michigan[3]	19.00	15.00	19.00	Wisconsin	24.80	24.80	24.80
Minnesota[3]	20.00	20.00	20.00	Wyoming	14.00	14.00	14.00

[1] This figure lists rates of general application (including, but not limited to, excise taxes, environmental taxes, special taxes, and inspection fees), exclusive of county and local taxes. Rates are also exclusive of any State taxes based on gross or net receipts. The State rates are effective July 1, 1998.

[2] The Federal tax on motor gasoline and diesel fuel increased to 18.4 and 24.4 cents, respectively, on October 1, 1997.

[3] Additional State taxes are levied as follows: California: 7.25 percent sales tax; Connecticut: 5 percent gross earnings tax; Georgia: 4 percent sales tax; Hawaii: 4 percent gross income tax; Illinois: 6.25 percent sales tax; Indiana: 5 percent sales tax; Iowa: 1 percent environmental protection tax; Michigan: 6 percent sales tax; New Jersey: gross receipts tax of 4 cents per gallon for on-highway use fuels; New York: 4 percent sales tax; Virginia: 2 percent sales tax in areas where mass transit systems exist; West Virginia: Consumer and sales tax of 4.85 cents per gallon.

[4] Local option taxes (LOTS) are allowed. In Florida, the State assesses a State Comprehensive Enhanced Transportation System (SCETS) tax which is two-thirds of each county's rate. In addition, the State collects a "ninth cent tax" and a second local tax. These taxes add an average of 11.8 cents to the motor fuel State tax. In Hawaii, LOTS are as follows: Honolulu: 16.5 cents per gallon; Maui: 13.0 cents per gallon; Hawaii: 8.8 cents per gallon; Kauai: 10.0 cents per gallon.

Table EN 2. U.S. Postal Two-Letter State Abbreviations

State Code	State	State Code	State	State Code	State
AL	Alabama	KY	Kentucky	ND	North Dakota
AK	Alaska	LA	Louisiana	OH	Ohio
AZ	Arizona	ME	Maine	OK	Oklahoma
AR	Arkansas	MD	Maryland	OR	Oregon
CA	California	MA	Massachusetts	PA	Pennsylvania
CO	Colorado	MI	Michigan	RI	Rhode Island
CT	Connecticut	MN	Minnesota	SC	South Carolina
DE	Delaware	MS	Mississippi	SD	South Dakota
DC	District of Columbia	MO	Missouri	TN	Tennessee
FL	Florida	MT	Montana	TX	Texas
GA	Georgia	NE	Nebraska	UT	Utah
HI	Hawaii	NV	Nevada	VT	Vermont
ID	Idaho	NH	New Hampshire	VA	Virginia
IL	Illinois	NJ	New Jersey	WA	Washington
IN	Indiana	NM	New Mexico	WI	Wisconsin
IA	Iowa	NY	New York	WV	West Virginia
KS	Kansas	NC	North Carolina	WY	Wyoming

Collection Methods

Survey data are collected by mail every month. It is mandatory for each respondent to submit completed forms to EIA within the specified time allotted. For the EIA-782A and B, completed forms must be submitted no later than 30 calendar days after the close of each reference month. For the EIA-782C, completed forms must be submitted no later than 20 calendar days after the close of the reference month. Telephone follow-up calls to nonrespondents begin the day after the established due date in order to collect all outstanding data. Late submissions and resubmissions are processed when received.

Data Processing

As EIA-782 forms are received, they are logged into an automated Survey Control File which maintains monthly status codes for each company. The data are reviewed manually and then entered onto the computer files. They are then processed through an automated edit program which detects missing data, inconsistent prices, volumes and prices that significantly differ from those previously reported by the company, and outlying values that will affect published estimates. Data that fail the edits are resolved through telephone calls to the data reporters, and corrections and verification codes are entered onto the computer files. Statistical reports, including publication tables, are then generated using only acceptable and verified data.

Nondisclosure

The data contained in this publication are subject to statistical nondisclosure procedures. The objective of the disclosure-avoidance procedures, as stated in the Energy Information Administration Standard 88-05-06, Subject: "Nondisclosure of Company Identifiable

Data in Aggregate Cells," is to ensure that confidential, company-identifiable data are not disclosed in tables where "company specific responses may be proprietary and prohibited from public disclosure by 18 U.S.C. 1905." Statistics representing data aggregated from fewer than three companies or that are dominated by input from one or two companies are withheld. EIA identifies cells that are sensitive according to these criteria by applying a statistical formula to the data contained in each cell to determine if a few companies "dominate" the cell.

If a cell is sensitive, the data in that cell are suppressed and a "W" is placed in the publication cell. Also, since many tables include row or column totals, some non-sensitive data cells have been suppressed to prevent the reader from calculating the suppressed numbers by simply subtracting the published numbers from the total.

Relationship of Refiner and Prime Supplier Sales Volumes

The refiner sales volumes collected on the EIA-782A are related to the prime supplier sales volumes collected on the EIA-782C, but conceptual differences exist that cause variations between these data. In general, EIA-782A volumes are intended to reflect *refiner sales* of petroleum products into *all secondary and tertiary markets*, while EIA-782C volumes are designed to measure *prime supplier sales* into only the *local markets of final consumption*. Specifically:

The reporting universe for the EIA-782C survey is significantly larger than that of the EIA-782A. While nearly all refiners and gas plant operators report on both surveys (a small number do not qualify as prime suppliers), some large, inter-State distributors and retailers, as well as some importers, report only on the EIA-782C.

EIA-782A respondents are asked only to exclude sales to other refiners (that is, other respondents that comprise the primary market), while EIA-782C respondents are asked to exclude sales to any company that is not a local distributor, local retailer, or end user (DRE). Therefore, EIA-782C respondents are asked not only to exclude sales to refiners, but also to most large inter-State resellers, importers, traders, and retailers who transport products across State boundaries.

The EIA-782A is designed to gather data on the sales of selected petroleum products made in each State, regardless of where the products are physically located or will be consumed. In contrast, the EIA-782C is designed to collect data reflecting only delivered sales of selected petroleum products into those States where the products are expected to be locally consumed.

Consequently, EIA-782A and EIA-782C volumetric data generally vary at national, regional, and State levels. In particular, differences are expected in States and regions in which major supply origination, pipeline distribution, or transfer points are located. In these States, large volumes of products may change hands many times, often for eventual shipment outside the State. Since the EIA-782C is intended to measure only those sales into the final local markets of consumption (sales to DREs), all preceding sales are excluded. Furthermore, sales by EIA-782C respondents are reported wherever the product was delivered, which may differ from the State where title transferred. In contrast, the EIA-782A reflects all sales made to secondary resellers, wherever title transfers.

Additionally, the EIA-782C reflects imports by firms that are neither refiners nor gas plant operators, that would not be measured on the EIA-782A unless they were transferred to a distribution chain. This mostly affects regions with a high level of product imports, such as the New England or Mid-Atlantic States.

Therefore, States with major refining areas, such as Texas or California, generally show higher volumes on the EIA-782A survey than the EIA-782C survey, since some of the volumes reported on the EIA-782A are excluded on the EIA-782C or are reported in different States. Conversely, net consuming States (e.g., most PAD District I and PAD District II States) may show larger prime supplier sales on the EIA-782C due to inter-State movements or imports by resellers and/or differences in State of delivery versus title transfer. However, this may be partially or entirely offset by some refiners reporting larger sales volumes on the EIA-782A than on the EIA-782C (due to fewer exclusions taken on the EIA-782A).

In summary, caution should be exercised when comparing sales volumes between refiners and prime suppliers. Whereas EIA-782A data reflect the marketing of products by refiners to non-refiners where the sale occurs, EIA-782C data reflect prime supplier sales to local distributors, local retailers, and end users where the product is delivered. Therefore, the EIA-782A and EIA-782C surveys differ by the respondents reporting (refiners versus prime suppli-

Table EN3. Revision Error in Selected 1996 U.S. Average Price Data
(Cents per Gallon Excluding Taxes)

Date	Refiner/Reseller Unleaded Regular Sales to End Users			No. 2 Distillate Sales to Residential Customers			Residual Fuel Oil Sales to End Users		
	PMM	Final	Difference	PMM	Final	Difference	PMM	Final	Difference
January	84.0	83.9	0.1	107.9	107.9	0.0	50.3	50.6	-0.3
February	82.8	82.8	0.0	105.1	105.1	0.0	45.7	46.3	-0.6
March	80.6	80.6	0.0	101.1	101.6	-0.5	41.0	41.3	-0.3
April	79.9	79.8	0.1	99.1	99.2	-0.1	40.2	40.4	-0.2
May	80.1	80.2	-0.1	96.2	96.4	-0.2	40.0	40.1	-0.1
June	79.0	79.0	0.0	92.5	92.3	0.2	40.4	40.3	0.1
July	77.6	77.6	0.0	88.2	88.3	-0.1	39.7	39.8	-0.1
August	82.6	82.6	0.0	86.9	86.9	0.0	40.9	40.9	0.0
September	82.5	82.4	0.1	88.6	88.7	-0.1	41.5	41.5	0.0
October	79.5	79.5	0.0	92.1	92.3	- 0.2	44.5	44.6	-0.1
November	76.6	76.6	0.0	93.9	94.1	-0.2	46.8	46.8	0.0
December	72.5	72.5	0.0	93.8	93.8	0.0	41.6	41.5	0.1

Sources: PMM data are from Tables 15, 31, and 42 of the *Petroleum Marketing Monthly*. Final data are from Tables 15, 31, and 42 of the *Petroleum Marketing Annual,* 1997.

Table EN4. Revision Error in Selected 1996 Refiner Sales Volume Data
(Million Gallons)

Date	Motor Gasoline Sales for Resale			No. 2 Distillate Sales for Resale			Residual Fuel Oil Sales to End Users		
	PMM	Final	Percent Change	PMM	Final	Percent Change	PMM	Final	Percent Change
January	275.7	272.8	1.1	127.8	128.5	-0.5	14.5	13.8	4.8
February	291.4	275.6	5.4	122.3	116.9	-4.4	16.5	13.6	17.6
March	291.3	287.1	1.4	120.6	120.1	0.4	13.9	13.6	2.2
April	296.3	293.0	1.1	120.9	121.0	-0.1	11.5	11.5	0.0
May	300.0	293.3	2.2	116.2	114.3	1.6	11.1	10.7	3.6
June	297.0	293.5	1.2	118.4	118.6	-0.2	11.7	12.3	-5.1
July	306.9	307.9	-0.3	116.2	117.3	-0.9	13.9	13.5	-2.9
August	303.5	304.0	-0.2	111.3	112.0	-0.6	12.5	12.1	3.2
September	290.8	290.4	0.1	121.4	121.0	0.3	13.2	12.6	4.5
October	299.5	299.6	0.0	127.5	126.0	1.2	15.8	15.1	4.4
November	286.1	286.4	-0.1	113.6	113.6	0.0	14.4	14.4	0.0
December	298.5	298.4	0.0	125.6	125.7	-0.1	17.7	17.5	1.1

Sources: PMM data are from Tables 7, 46, and 47 of the *Petroleum Marketing Monthly*. Final data are from Tables 7, 46, and 47 of the *Petroleum Marketing Annual,* 1997.

Table EN5. Revision Error in Selected Volumes of 1996 Prime Supplier Sales Data
(Million Gallons)

Date	Total Motor Gasoline			Total No. 2 Distillate			Total Residual Fuel Oil		
	PMM	Final	Percent Change	PMM	Final	Percent Change	PMM	Final	Percent Change
January	319.0	317.6	0.4	150.2	150.3	-0.1	33.4	33.1	0.9
February	335.0	318.4	5.0	146.1	140.0	4.2	33.9	31.9	5.9
March	336.8	335.8	0.3	141.3	141.1	0.1	28.4	27.8	2.1
April	343.8	344.1	-0.1	143.6	143.2	0.3	24.9	25.0	-0.4
May	347.8	348.1	-0.1	134.9	134.1	0.6	24.1	24.2	-0.4
June	351.8	351.1	0.2	131.3	129.5	1.4	24.6	25.1	-2.0
July	364.6	363.4	0.3	132.9	131.8	0.8	27.5	27.2	1.1
August	357.4	358.4	-0.3	129.9	129.3	0.5	27.3	27.0	1.1
September	343.2	343.1	0.0	139.8	139.3	0.4	26.8	26.8	0.0
October	351.4	351.4	0.0	148.2	146.8	0.9	30.1	30.5	-1.3
November	337.9	337.6	0.1	135.6	135.2	0.3	33.5	33.4	0.3
December	349.3	348.6	0.2	147.1	146.7	0.3	36.0	35.0	2.8

Sources: PMM data are from Tables 48, 49, and 50 of the *Petroleum Marketing Monthly*. Final data are from Tables 48, 49, and 50 of the *Petroleum Marketing Annual*, 1997.

ers), the types of sales reported (sales to non-refiners versus sales to DREs), and the location of the reported sales (point of title transfer versus destination of the sale).

Revision Error

The petroleum product price and volume data shown for the current month are preliminary. These numbers may be revised in the next month's publication based on data received late or revisions received. For example, if the latest data shown are for the month of February, the February data are preliminary and the January data may have been revised due to the receipt of late or revised data. The data are final upon publication in the *Petroleum Marketing Annual* (PMA). The difference between the data when they appear in the *Petroleum Marketing Monthly* (PMM) and when they appear in the PMA is called the revision error. The amount of revision error for some selected EIA-782 data series is shown in Tables EN3 - EN5.

The Crude Oil Price Surveys

Background

Form EIA-182: "Domestic Crude Oil First Purchase Report"

Each month, the Form EIA-182 collects data from the buyers on first purchases of domestic crude oil. A "first purchase" constitutes a transfer of ownership of crude oil during or immediately after the physical removal of the crude oil from a production property for the first time. Transactions between affiliated companies are reported as if they were "arms-length" transactions. (This definition is consistent with the Windfall Profits Tax (WPT) concepts of "first sale" and "removal price.") The primary objective is to calculate an average first purchase price at various levels of aggregation. A company's monthly average first purchase prices are volume weighted across given geographical areas for selected crude streams and gravity bands. Prices are computed from the following reported data elements:

Area of production. The producing State or non-State production "area" (i.e., Alaska North Slope, Alaska Other Mainland, Federal Offshore California and Federal Offshore Gulf--about one-fifth off Texas and the remainder off Louisiana).

Average cost. Reported f.o.b. the lease boundary and based on the actual purchase expenditures, including discounts or premiums paid.

Total volume purchased. The amount of crude bought and paid for as it is measured at the lease boundary (usually at a lease automatic custody transfer unit--a LACT unit), adjusted for basic sediment and water (BS&W) and temperature.

Prices published from data collected on Form EIA-182 are calculated by dividing the sum of the total average costs paid by the sum of the total volumes purchased.

Form EIA-856: "Monthly Foreign Crude Oil Acquisition Report"

The Form EIA-856 collects monthly price and volume data for about 90 percent of all crude oil imported into the United States. It also collects classification data that enable EIA to determine the terms of an acquisition. The data are reported for the parent company and all the affiliates controlled by the parent. Under this definition, the acquisition price reported for each cargo is the one paid to an unaffiliated seller, in principle an "arms-length" price, which is consistent with use of the data to represent market trends, rather than monitoring internal company transfer pricing policies.

Each month, respondents report the following for cargos acquired for U.S. importation:

Offshore inventories. Crude oil owned by the respondent that is intended for importation into the United States. These inventories include oil in tankers enroute to the United States and floating or on-land storage outside the United States.

Crude type. Includes the country of origin of the cargo of crude, the stream or type of crude oil (e.g., Saudi Light), and the API gravity.

Volume acquired. The number of 42 U.S. gallon barrels in the cargo.

Dates. The date of loading/acquisition and the expected date of landing.

Transportation. Ports of loading and landing and the name of the vessel.

Prices. Acquisition cost, landed cost, and other costs such as demurrage, agent's fees, import tariffs and fees, etc. (all costs are reported in dollars per barrel).

Days credit. The number of days credit is extended to the purchaser by the seller.

Purchase classifying information. Type of transaction (e.g., purchase from host government), terms of transaction (spot or contract), and point of transaction (f.o.b. (free on board), country of origin or CIF (cost, insurance, and freight), U.S. port of entry).

Published prices are calculated by first multiplying the purchase volume by a price to obtain a total cost, then the sums of the total costs are divided by the sums of the purchase volumes.

The prices associated with data collected on Form EIA-856 are aggregated within the month of acquisition, which can be the month of loading, the month of landing, or sometime between those events. By design, the prices are not aggregated for the month in which they are determined, unless the acquisition and price determination month are the same. EIA-856 data reflect types of trades occurring over the entire spectrum of international crude oil markets, ranging from continuing supply agreements to spot market purchases. Prices can be determined at time of loading or at time of landing. Prices can be negotiated between the parties involved or tied to spot or futures market price levels. The methodology chosen for the EIA-856 provides a consistent historical series even though its prices may not always agree with measures of prices from other sources.

International crude oil markets are complex and dynamic. For example, a cargo of Saudi Arabian crude oil could be acquired in June at a loading port in Saudi Arabia. The cargo may land in the United States in August. The price for the crude oil could be determined by spot crude oil prices in effect during the 5 days before and after landing. For the PMM, the price for this cargo will be aggregated in the month of June, when it was acquired. Conversely, a cargo of Brent crude may be acquired in June, but its price may have been determined in the forward Brent market in April. This cargo's price will also be aggregated in June, when the purchaser took title to the crude.

In the early 1980's, most crude oil prices were set by the country selling the crude. Gradually, as the supply of crude oil became more abundant, markets became more competitive. A robust spot market for

crude evolved, in which prices for crude oil were determined by demand and supply. Frequently, the official sales price set by the selling government was considerably different than spot market assessments. As buyers began to purchase more crude oil on the spot market, the control that sellers had theretofore exercised eroded.

In order to protect their market share, crude oil producing governments began to tie prices for their crude to market-related prices. When these market-related pricing formulas came into prominence in late 1985, many crude oil prices were tied to a "netback realization," wherein a crude oil's value was determined by volume weighted spot market prices of products derivable from that crude. The weights essentially reflected the relative yield of selected products from a given crude stream. These netback-based formulas gradually gave way to formulas based on spot crude oil assessments.

The formulas and terms used by sellers of crude oil continue to change. Since the EIA-856 prices are aggregated by month of acquisition--not necessarily the same as month of price determination--they may not always show the same pattern as a series from another source (e.g., trade-press publications). During periods of dramatic change in crude oil prices, aggregate prices derived from EIA-856 data will tend to "lead" the market. That is, these prices will show the emerging trend earlier, reach the inflection point sooner, and then return to the underlying trend. When averaged over longer periods of time, however, EIA-856 prices show the same relative price movements as exogenous sources.

Form EIA-14: "Refiners' Monthly Cost Report"

The EIA-14 is a monthly census of all U.S. refiners. It collects the net acquisition costs and volumes of crude oil, both domestic and imported, on a corporate national basis (i.e., not for individual refineries). Included in the costs are all charges associated with the acquisition, transportation, and storage of crude incurred by respondents up to the time the oil is booked into their refineries.

Each month, refiners report the volume (in thousands of barrels) and costs (in thousands of dollars) for:

Domestic crude oil. Oil produced in the United States or from its outer continental shelf.

Imported crude oil. Oil produced outside the United States and brought into the United States for domestic processing.

Unfinished oil. All other oils, both domestic and imported, requiring further refining, except those requiring only mechanical blending.

Average prices are calculated by dividing the sum of the costs by the sum of the volumes.

Respondent Frame

Form EIA-182:

All firms that buy domestic crude oil at the lease boundary, acquiring ownership of the crude in a first purchase transaction. The list initially was compiled from the 1974 Federal Energy Administration (FEA) Oil and Gas Survey of Producers and Operators. Collection of data from first purchasers began in February 1976. By 1978, the frame consisted of 340 respondents. Of these, 198 purchased more than 150,000 barrels per year and together represented 99.9 percent of the total reported volume.

Adjustments to the frame have mostly been "deaths," with relatively few "births." Following decontrol in January 1981, there was a major contraction of the list of active first purchasers. Many small firms went out of business or were absorbed by larger companies. More recent changes include several mergers among majors and one breakup of a major company. Currently, the EIA-182 survey collects data from 87 active respondents.

Form EIA-856:

All companies that were reporting data on the ERA-51, "Transfer Pricing Report," as of June 1982, regardless of the total volumes of crude oil that are imported. In addition, all other companies that acquire more than 500,000 barrels of foreign crude oil in the report month for importation into the United States are required to prepare and submit an EIA-856 for that month.

Form EIA-14:

All refiners of crude oil in the United States, including its territories and possessions. There are currently 79 active respondents to the EIA-14.

The list of respondents to the EIA-14 is updated annually by supplementation from the EIA-782A, "Refiners' / Gas Plant Operators' Monthly Petroleum Product Sales Report," and the EIA-810, "Monthly Refinery Report."

Data Collection Processing

All three crude oil data collection systems are operated independently. Each performs similar data collection and processing functions that are outlined below.

Survey data are collected by mail every month. It is mandatory for each respondent to submit completed forms to EIA no later than 30 calendar days after the close of each reference month. Telephone follow-up calls to nonrespondents begin 2 days after the established due date in order to collect all outstanding data. Late submissions and resubmissions are processed when received.

The forms are logged and reviewed manually. The data are then entered onto computer files. The files are then processed through an automated edit program which detects missing data, inconsistent prices, and outlying values that affect published estimates. Data that fail the edits are resolved through telephone calls to data reporters, and corrections and verification codes are entered onto computer files. Statistical reports, including publication tables, are then generated using only acceptable and verified data. Response rates are normally 100 percent by the time final statistics are calculated.

Nondisclosure

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If a cell is sensitive, the data in that cell are suppressed and a "W" is placed in the publication cell. Also, since many tables include row or column totals, some nonsensitive data cells have been suppressed to prevent the reader from calculating the suppressed numbers by simply subtracting the published numbers from the total.

Data Continuity

The crude oil statistics published in the *Petroleum Marketing Monthly* constitute both a republishing of numbers that already appear in the *Monthly Energy Review* (MER) and the *Annual Energy Review* (AER), and a simple extension of the detail of such statistics. These statistics have been published for a number of years in the MER and AER. The data currently collected through the crude oil surveys are compatible with data used to derive statistics for the historical series. The definitions, respondents, and processing have not changed substantially over the years the data have been collected. The target populations and the computational algorithms have remained virtually unchanged.

Reliability of Data

There are two types of errors possible in an estimate based on a sample survey: sampling and nonsampling. Sampling errors occur because observations are made only on a sample, not on the entire population. Since the crude oil surveys are based on a census of the population, these surveys contain no sampling error.

Nonsampling errors can be attributed to many sources: (1) inability to obtain complete information from all respondents in the survey (i.e., nonresponse), (2) response errors, (3) definitional difficulties, (4) differences in the interpretation of questions, (5) mistakes in recording or coding the data obtained, and (6) other errors of collection, response, coverage, and estimation for missing data.

Although no direct measurement of the biases due to nonsampling errors can be obtained, precautionary steps were taken in all phases of the frame development and data collection, processing, and tabulation processes, in an effort to minimize their influence. In addition, the close cooperative consultation between EIA and the survey respondents and data users results in a more accurate information gathering and reporting process.

Table EN6. Revision Error in 1996 Refiner Acquisition Cost Data
(Dollars per Barrel)

Date	Refiner Acquisition Costs								
	Domestic			Imported			Composite		
	PMM	Final	Difference	PMM	Final	Difference	PMM	Final	Difference
January	24.24	24.25	-0.01	23.05	23.02	0.03	23.59	23.59	0.00
February	22.49	22.49	0.00	20.58	20.88	-0.30	21.44	21.64	-0.20
March	20.59	20.57	0.02	19.16	19.16	0.00	19.82	19.82	0.00
April	18.99	19.02	-0.03	17.79	17.83	-0.04	18.32	18.35	-0.03
May	19.19	19.08	0.11	18.53	18.55	-0.02	18.83	18.79	0.02
June	18.44	18.31	0.13	17.39	17.35	0.04	17.87	17.80	0.077
July	18.36	18.25	0.11	17.50	17.49	-0.01	17.89	17.84	0.05
August	18.59	18.47	0.12	17.96	17.96	0.00	18.23	18.19	0.04
September	18.59	18.48	0.11	17.96	17.85	0.11	18.23	18.14	0.09
October	19.58	19.68	-0.10	18.95	18.73	0.22	19.23	19.17	0.06
November	19.73	19.23	0.50	18.88	17.88	1.00	19.26	18.52	0.74
December	17.93	17.92	0.01	16.18	15.95	0.23	17.00	16.91	0.09

Sources: PMM data are from Table 1 of the *Petroleum Marketing Monthly.* Final data are from Table 1 of the *Petroleum Marketing Annual,* 1997.

Table EN7. Revision Error in 1996 Domestic First Purchase Price Data
(Dollars per Barrel)

Month	PMM	Final	Difference
January	21.76	21.76	0.00
February	19.41	19.38	0.03
March	17.88	17.83	0.05
April	16.63	16.63	0.00
May	17.25	17.23	0.02
June	15.90	15.88	0.02
July	15.90	15.89	0.01
August	16.22	16.19	0.03
September	16.44	16.41	0.03
October	17.68	17.66	0.02
November	16.84	16.83	0.01
December	15.07	15.04	0.03

Sources: Preliminary data are from Table 1 of the *Petroleum Marketing Monthly* for each respective month. Final data are from Table 1 of the *Petroleum Marketing Annual*, 1997.

Table EN8. Revision Error in 1996 Foreign Crude Oil Acquisition Cost Data
(Dollars per Barrel)

Month	FOB Cost of Imports			Landed Cost of Imports		
	PMM	Final	Difference	PMM	Final	Difference
January	21.551	21.19	0.36	22.76	22.21	0.55
February	19.13	18.99	0.14	20.27	19.98	0.259
March	17.11	17.11	0.00	18.60	18.45	0.15
April	16.11	16.20	-0.09	17.44	17.52	-0.08
May	16.78	16.81	-0.03	17.97	17.87	0.10
June	15.78	15.99	-0.21	16.98	17.12	-0.14
July	16.18	16.37	-0.19	17.17	17.27	-0.10
August	16.49	16.68	-0.19	17.56	17.78	-0.22
September	16.57	16.76	-0.19	17.66	17.85	-0.19
October	17.39	17.26	0.13	18.70	18.51	0.019
November	16.27	16.12	0.15	17.63	17.35	0.28
December	14.19	14.21	-0.02	15.84	15.70	0.14

Sources: PMM data are from Table 1 of the *Petroleum Marketing Monthly* for each respective month. Final data are from Table 1 of the *Petroleum Marketing Annual,* 1997.

Imputation

Since the response rates for the crude oil survey are virtually 100 percent, there are no imputation procedures in the PMM data for nonresponse to these surveys. Imputation is performed, however, on EIA-182 volume data used in estimating crude oil production published in the *Petroleum Supply Monthly* (PSM). Since production estimates for the PSM are required on an expedited schedule, some responses are imputed for the PSM. However, all responses are received prior to the publication of the PMM, thus no imputation is required for the price data published in the PMM. See Note 4 in the Explanatory Notes in the PSM for additional information on the use of EIA-182 data in estimating domestic crude oil production.

Revision Error

The crude oil values shown for Domestic First Purchase Prices and Refiner Acquisition Cost (RAC) for the current month and for Average Landed Costs for the current 2 months are preliminary. These numbers are revised in the month after the preliminary month(s) based on data received late or revisions received. For example, in the February publication, the February RAC data are preliminary and the January RAC data may have been revised due to receipt of late or revised data. The data are final upon publication in the *Petroleum Marketing Annual* (PMA). In the above example, the difference between the January RAC data in the *Petroleum Marketing Monthly* (PMM) and when they appear in the PMA is called the revision error. The amount of revision error for some selected crude oil data series is shown in Tables EN6 through EN8.

Product Guide

Product Guide

Category	Table	
	Prices	Volumes
Crude Oil		
Refiner Acquisition Cost	1	--
Domestic First Purchases	1	--
from selected States	21	--
by API gravity	23	--
for selected crude streams	22	--
Imports		
F.O.B. Costs	1	--
from selected countries	24	--
by API gravity	26	--
for selected crude streams	29	--
Landed Costs	1	--
from selected countries	25	--
by API gravity	27	--
for selected crude streams	30	--
Percentage by Gravity Band	28	--
Motor Gasoline		
all sellers	31	--
refiners	2,4,6,35	3,5,7,43,44
prime suppliers	--	48
Conventional		
all sellers	32	--
refiners	8	9,44
prime suppliers	--	48
Oxygenated		
all sellers	33	--
refiners	10	11,44
prime suppliers	--	48
Reformulated		
all sellers	34	--
refiners	12	13,44
prime suppliers	--	48
Aviation Gasoline		
refiners	2,4,36	3,5,45
prime suppliers	--	49
Kerosene-Type Jet Fuel		
refiners	2,4,36	3,5,45
prime suppliers	--	49
Naphtha-Type Jet Fuel		
prime suppliers	--	49
Propane, Consumer Grade		
all sellers	14,38	--
refiners	2,4	3,5,45
prime suppliers	--	49

Category	Table	
	Prices	Volumes
Kerosene		
refiners	2,4,36	3,5,45
prime suppliers	--	50
No. 1 Distillate		
refiners	2,4,37	3,5,45
prime suppliers	--	50
No. 2 Distillate		
all sellers	15,18,39	--
refiners	2,4,37	3,5,46
prime suppliers	--	50
No. 2 Diesel Fuel		
all sellers	16,17,40	--
refiners	2,4	3,5,46
prime suppliers	--	50
Low-Sulfur		
all sellers	17,41	--
refiners	--	3,5,46
prime suppliers	--	50
High-Sulfur		
all sellers	17,41	--
refiners	--	3,5,46
prime suppliers	--	50
No. 2 Fuel Oil		
refiners	2,4	3,5,46
prime suppliers	--	50
No. 4 Fuel		
all sellers	37	--
refiners	2,4	3,5,47
prime suppliers	--	50
Residual Fuel Oil		
all sellers	42	--
refiners	2,4,19	3,5,20,47
prime suppliers	--	49
Sulfur Content less than or equal to 1%		
all sellers	42	--
refiners	19	20,47
prime suppliers	--	49
Sulfur Content greater than 1%		
all sellers	42	--
refiners	19	20,47
prime suppliers	--	49

Glossary

Glossary

API Gravity: An arbitrary scale expressing the gravity or density of liquid petroleum products. The measuring scale is calibrated in terms of degrees API; it may be calculated in terms of the following formula:

$$Deg\ \ API = \frac{141.5}{sp\ gr60degF/60degF} - 131.5$$

The higher the API gravity, the lighter the compound. Light crudes generally exceed 38 degrees API and heavy crudes are commonly labeled as all crudes with an API gravity of 22 degrees or below. Intermediate crudes fall in the range of 22 degrees to 38 degrees API gravity.

ASTM: American Society for Testing and Materials.

Aviation Gasoline (Finished): All special grades of gasoline for use in aviation reciprocating engines, as given in ASTM Specification D 910 and Military Specification MIL-G-5572. Excludes blending components which will be used in blending or compounding into finished aviation gasoline.

Barrel: A volumetric unit of measure for crude oil and petroleum products equivalent to 42 U.S. gallons.

Bulk Sales: Wholesale sales of gasoline in individual transactions which exceed the size of a truckload.

CIF: Cost, insurance, and freight. A type of sale in which the buyer of the product agrees to pay a unit price that includes the f.o.b. value of the product at the point of origin plus all costs of insurance and transportation. This type of transaction differs from a "delivered" purchase, in that the buyer accepts the quantity as determined at the loading port (as certified by the bill of loading and quality report) rather than pay based on the quantity and quality ascertained at the unloading port. It is similar to the terms of an f.o.b. sale, except that the seller, as a service for which he is compensated, arranges for transportation and insurance.

Commercial/Institutional: Firms engaged in transportation, wholesale or retail trade, finance, insurance, and real estate. Also included are apartment buildings/complexes and other multifamily dwellings, hotels and office buildings or complexes, local, State, or Federal facilities or organizations including the military, schools, hospitals, religious institutions, universities, and all other government-supported organizations.

Conventional Gasoline: See Motor Gasoline.

Crude Oil (including lease condensate): A mixture of hydrocarbons that existed in liquid phase in underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Includes lease condensate and drip gas, as well as liquid hydrocarbons produced from tar sands, gilsonite, and oil shale. Excludes topped crude oil, residual oil, other unfinished oils, and liquids produced at natural gas processing plants and mixed with crude oil, where identifiable. Crude oil is considered as either domestic or imported according to the following:

1. **Domestic Crude Oil:** Crude oil produced in the United States or from its "outer continental shelf" as defined in 43 U.S.C. 1331.

2. **Imported Crude Oil:** Crude oil produced outside the United States and brought into the United States.

3. **First purchase volume and cost data** for crude oil are classified in accordance with what the product was sold as, regardless of the actual specifications. Hence, its volumes may include some of the excluded liquids discussed above.

Crude Oil Acquisitions (unfinished oil acquisitions): The volume of crude oil either (1) acquired by the respondent for processing for its own account in accordance with accounting procedures generally accepted and consistently and historically applied by

the refiner concerned, or (2) in the case of a processing agreement, delivered to another refinery for processing for the respondent's own account.

Crude oil which has been added by a refiner to inventory, and which is thereafter sold or otherwise disposed of without processing for the account of that refiner, shall be deducted from its crude oil purchases at the time when the related cost is deducted from refinery inventory in accordance with accounting procedures generally applied by the refiner concerned.

Dealer Tank Wagon (DTW) Sales: Wholesale sales of gasoline priced on a delivered basis to a retail outlet.

Distillate Fuel Oil: A general classification for one of the petroleum fractions produced in conventional distillation operations. It is used primarily for space heating, on- and off-highway diesel engine fuel (including railroad engine fuel and fuel for agricultural machinery), and electric power generation. Included are products known as No. 1, No. 2, and No. 4 fuel oils and No. 1, No. 2, and No. 4 diesel fuels.

1. **No. 1 Distillate:** A petroleum distillate which meets the specifications for No. 1 heating or fuel oil as defined in ASTM D 396 and/or the specifications for No. 1 diesel fuel as defined in ASTM Specification D 975, with distillation temperatures of 420 degrees Fahrenheit at the 10-percent recovery point and 550 degrees Fahrenheit at the 90-percent recovery point, and kinematic viscosities between 1.4 and 2.2 centistokes at 100 degrees Fahrenheit.

   a. **No. 1 Diesel Fuel:** A volatile distillate fuel oil with a boiling range between 300-575 degrees Fahrenheit and used in high-speed diesel engines generally operated under wide variations in speed and load. Includes type C-B diesel fuel used for city buses and similar operations. Properties are defined in ASTM Specification D 975.

   b. **No. 1 Fuel Oil:** A light distillate fuel oil intended for use in vaporizing pot-type burners. ASTM Specification D 396 specifies for this grade maximum distillation temperatures of 400 degrees Fahrenheit at the 10-percent recovery point and 550 degrees Fahrenheit at the 90-percent point, and kinematic viscosities between 1.4 and 2.2 centistokes at 100 degrees Fahrenheit.

2. **No. 2 Distillate:** A petroleum distillate which meets the specifications for No. 2 heating or fuel oil as defined in ASTM D 396 and/or the specifications for No. 2 diesel fuel as defined in ASTM Specification D 975.

   a. **No. 2 Diesel Fuel:** A gas oil type distillate of lower volatility with distillation temperatures at the 90-percent point between 540-640 degrees Fahrenheit for use in high speed diesel engines generally operated under uniform speed and load conditions. Includes Type R-R diesel fuel used for railroad locomotive engines, and Type T-T for diesel-engine trucks. Properties are defined in ASTM Specification D 975.

      - **Low Sulfur:** The sulfur level does not exceed 0.05 percent by weight.

      - **High Sulfur:** The sulfur level is above 0.05 percent by weight.

   b. **No. 2 Fuel Oil:** A distillate fuel oil for use in atomizing type burners for domestic heating or for moderate capacity commercial-industrial burner units. ASTM Specification D 396 specifies for this grade distillation temperatures at the 90-percent point between 540 and 640 degrees Fahrenheit, and kinematic viscosities between 2.0 and 3.6 centistokes at 100 degrees Fahrenheit.

      NOTE: Published volume and price data for No. 2 diesel fuel and No. 2 fuel oil are classified in accordance to what the product was sold as, regardless of the actual specifications of that product; i.e., if a No. 2 distillate was sold as a heating or fuel oil, the volume and price would be published in the category "No. 2 Fuel Oil" even if the product conformed to the higher specifications of a diesel fuel.

3. **No. 4 Fuel:** A fuel oil for commercial burner installations not equipped with preheating facilities. It is used extensively in industrial plants. This grade is a blend of distillate fuel oil and residual fuel oil stocks that conforms to ASTM Specification D 396 or Federal Specification VV-F-815C; its kinematic viscosity is between 5.8 and 26.4 centistokes at 100 degrees Fahrenheit. Also included is No. 4-D, a fuel oil for low- and medium-speed diesel en-

gines that conforms to ASTM Specification D 975.

First Purchase (of crude oil): An equity (not custody) transaction involving an arms-length transfer of ownership of crude oil associated with the physical removal of the crude oil from a property (lease) for the first time. A first purchase normally occurs at the time and place of ownership transfer where the crude oil volume sold is measured and recorded on a run ticket or other similar physical evidence of purchase. The reported cost is the actual amount paid by the purchaser, allowing for any adjustments (deductions or premiums) passed on to the producer or royalty owner.

F.o.b. Price (free on board): The f.o.b. price is the price actually charged at the producing country's port of loading. The reported price includes deductions for any rebates and discounts or additions of premiums where applicable and should be the actual price paid with no adjustment for credit terms.

Gas Plant Operator: Any firm, including a gas plant owner, which operates a gas plant and keeps the gas plant records. A gas plant is a facility in which natural gas liquids are separated from natural gas, or in which natural gas liquids are fractionated or otherwise separated into natural gas liquid products or both. For the purposes of this publication, gas plant operator data are contained in the refiner categories.

Gasohol: A blend of finished motor gasoline and alcohol (generally ethanol but sometimes methanol) in which 10 percent or less of the product is alcohol. For the purposes of this publication, gasohol may be included in any of the types of gasoline, depending on how it was marketed.

Industrial: Firms engaged in mining, construction, or manufacturing.

Kerosene: A petroleum distillate that has a maximum distillation temperature of 401 degrees Fahrenheit at the 10-percent recovery point, a final boiling point of 572 degrees Fahrenheit, and a minimum flash point of 100 degrees Fahrenheit. Included are the two grades designated in ASTM D3699: No. 1-K and No. 2-K, and all grades of kerosene called range or stove oil which have properties similar to No. 1 fuel oil, but with a gravity of about 43 degrees API and a maximum endpoint of 625 degrees Fahrenheit. Kerosene is used in space heaters, cook stoves, and water heaters; it is suitable for use as an illuminant when burned in wick lamps.

Kerosene-Type Jet Fuel: A quality kerosene product with maximum distillation temperature of 400 degrees Fahrenheit at the 10-percent recovery point and a final maximum boiling point of 572 degrees Fahrenheit. The fuel is designated in ASTM Specification D 1655 and Military Specifications MIL-T-5624P and MIL-T-83133D (Grades JP-5 and JP-8). A relatively low freezing point distillate of the kerosene type used primarily for commercial turbojet and turboprop aircraft engines.

Landed Cost: Landed cost represents the dollar per barrel price of crude oil at the port of discharge. Includes charges associated with the purchase, transporting, and insuring of a cargo from the purchase point to the port of discharge. Does not include charges incurred at the discharge port (e.g., import tariffs or fees, wharfage charges, and demurrage).

Motor Gasoline (Finished): A complex mixture of relatively volatile hydrocarbons, with or without small quantities of additives, blended to form a fuel suitable for use in spark-ignition engines. Specifications for motor gasoline, as given in ASTM Specification D 439-88 or Federal Specification VV-G-1690B, include a boiling range of 122 to 158 degrees Fahrenheit at the 10-percent recovery point to 365 to 374 degrees Fahrenheit at the 90-percent recovery point. "Motor Gasoline" includes conventional gasoline, oxygenated gasoline (EPA approved), and reformulated gasoline. Blendstock (including ethanol and MTBE) are excluded until blending has been completed.

1. **Conventional Gasoline:** Motor gasoline not included in the oxygenated or reformulated gasoline categories. Excludes reformulated gasoline blendstock for oxygenate blending (RBOB).

2. **Oxygenated Gasoline:** Gasoline formulated for use in motor vehicles that is intended for use in EPA approved carbon monoxide (CO) nonattainment State programs. Excludes reformulated gasoline, oxygenated fuels program reformulated gasoline (OPRG) and reformulated gasoline blendstock for oxygenate blending (RBOB).

3. **Reformulated Gasoline:** Gasoline formulated for use in motor vehicles, the composition and properties of which meet the requirements of

the reformulated gasoline regulations promulgated by the U.S. Environmental Protection Agency under Section 211(k) of the Clean Air Act. Includes oxygenated fuels program reformulated gasoline (OPRG). Excludes reformulated gasoline blendstock for oxygenate blending (RBOB).

Within each of these three types of gasoline are the following three grades:

a. **Regular Gasoline:** Gasoline having an antiknock index ((R + M)/2) greater than or equal to 85 and less than 88.

b. **Midgrade Gasoline:** Gasoline having an antiknock index ((R + M)/2) greater than or equal to 88 and less than or equal to 90.

c. **Premium Gasoline:** Gasoline having an antiknock index ((R + M)/2) greater than 90.

NOTE: For this publication, gasoline sales are reported by grade in accordance with their classification at the time of sale. In general, automotive octane requirements are lower at high altitudes. Therefore, in some areas of the United States, such as the Rocky Mountain States, the octane ratings for the gasoline grades above may be 2 or more octane points lower.

MTBE (methyl tertiary butyl ether): An ether eligible for gasoline blending, blends up to 15.0 percent by volume MTBE which must meet the ASTM D 4814 Specifications. Blenders must take precautions that the blends are not used as base gasolines for other oxygenated blends.

Naphtha: A generic term applied to a petroleum fraction with an approximate boiling range between 122 and 400 degrees Fahrenheit.

Naphtha-Type Jet Fuel: A fuel in the heavy naphtha boiling range with an average gravity of 52.8 degrees API and 20 to 90 percent distillation temperatures of 290 degrees to 470 degrees F., meeting Military Specification MIL-T-5624L (Grade JP-4). JP-4 is used for turbojet and turboprop aircraft engines, primarily by the military. Excludes ram-jet and petroleum rocket fuels.

OPEC: Organization of Petroleum Exporting Countries, oil-producing and exporting countries that have organized for the purpose of negotiating with oil companies on matters of oil production, prices, and future concession rights. Current members are Algeria, Gabon, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, and Venezuela. Prior to January 1, 1993, Ecuador was a member of OPEC.

OPRG: "**O**xygenated Fuels **P**rogram **R**eformulated **G**asoline" is reformulated gasoline which is intended for use in an oxygenated fuels program control area during an oxygenated fuels program control period.

Other End Users: For motor gasoline, all direct sales to end users other than those made through company outlets. For No. 2 distillate, all direct sales to end users other than residential, commercial/institutional, industrial sales, and sales through company outlets. Included in the "other end users" category are sales to utilities and agriculture.

Oxygenated Gasoline: See Motor Gasoline.

Oxygenates: Any substance which, when added to gasoline, increases the amount of oxygen in that gasoline blend.

PAD District: Petroleum Administration for Defense Districts

PAD District I:

Subdistrict IA: Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont.

Subdistrict IB: Delaware, District of Columbia, Maryland, New Jersey, New York, Pennsylvania.

Subdistrict IC: Florida, Georgia, North Carolina, South Carolina, Virginia, West Virginia.

PAD District II:

Illinois, Indiana, Iowa, Kansas, Kentucky, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, Oklahoma, South Dakota, Tennessee, Wisconsin.

PAD District III:

Alabama, Arkansas, Louisiana, Mississippi, New Mexico, Texas, Federal Offshore Gulf.

PAD District IV:

Colorado, Idaho, Montana, Utah, Wyoming.

PAD District V:

Alaska (North Slope and Other Mainland), Arizona, California, Hawaii, Nevada, Oregon, Washington, Federal Offshore California.

Petrochemical Sales: Sales of propane to a manufacturer of chemicals derived from petroleum or natural gas, or from raw materials derived from petroleum or natural gas.

Petroleum Products: Petroleum products are obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds. Petroleum products include unfinished oils, liquefied petroleum gases, pentanes, plus aviation gasoline, motor gasoline, naphtha-type jet fuel, kerosene, distillate fuel oil, residual fuel oil, petrochemical feedstocks, special naphthas, lubricants, waxes, petroleum coke, asphalt, road oil, still gas, and miscellaneous products.

Prime Supplier: A firm that produces, imports, or transports selected petroleum products across State boundaries and local marketing areas, and sells the product to local distributors, local retailers, or end users.

Propane, Consumer Grade: A normally gaseous paraffinic compound (C_3H_8), which includes all products covered by Natural Gas Policy Act (NGPA) Specifications for commercial use and HD-5 propane and ASTM Specification D 1835. It is a colorless paraffinic gas that boils at a temperature of -43.67 degrees Fahrenheit. It does not include the propane portion of any natural gas liquids (NGL) mixes; i.e., butane-propane mix.

Rack Sales: Wholesale truckload sales or smaller of gasoline where title transfers at a terminal.

RBOB: "**R**eformulated Gasoline **B**lendstock for **O**xygenate **B**lending" is a motor gasoline blending component which, when blended with a specified type and percentage of oxygenate, meets the definition of reformulated gasoline.

Reference Month: The calendar month and year to which the reported cost, price, and volume information relates.

Refiner: A firm or the part of a firm that refines products or blends and substantially changes products, or refines liquid hydrocarbons from oil and gas field gases, or recovers liquefied petroleum gases incident to petroleum refining and sells those products to resellers, retailers, resellers / retailers, or ultimate consumers. "Refiner" includes any owner of products which contracts to have those products refined and then sells the refined products to resellers, retailers, or ultimate consumers. For the purposes of this publication, gas plant operator data are included in this category.

Reformulated Gasoline: See Motor Gasoline.

Reseller: A firm (other than a refiner) that carries on the trade or business of purchasing refined petroleum products and reselling them to purchasers other than ultimate consumers.

Reseller/Retailer: A firm (other than a refiner) that carries on the trade or business activities of both a reseller and a retailer; i.e., purchasing refined petroleum products and reselling them to purchasers who may be either ultimate or other than ultimate consumers.

Residential: Sales of No. 2 distillate and propane to individual customers or households (as opposed to businesses or institutions) who ostensibly use the fuel in a residence for space heating, cooking, etc. Sales to apartment buildings / complexes or to other multi-family dwellings are excluded from the "Residential Sales" category and are included in the "Commercial / Institutional Sales" category.

Residual Fuel Oils: The topped crude of refinery operations, which includes No. 5 and No. 6 fuel oils as defined in ASTM Specification D 396 and Federal Specification VV-F-815C, Navy Special fuel oil as defined in Military Specification MIL-F-859E including Amendment 2 (NATO Symbol F-77), and Bunker C fuel oil. Residual fuel oil is used for the production of electric power, space heating, vessel bunkering, and various industrial purposes.

Retailer: A firm (other than a refiner, reseller, or reseller / retailer) that carries on the trade or business of purchasing refined petroleum products and reselling them to ultimate consumers.

Retail Outlet: Any company-owned outlet (e.g., service station) selling gasoline, on-highway low-sulfur diesel fuel, or propane for on-highway vehicle use which is under the direct control of the firm filing the EIA-782 by virtue of the ability to set the retail product price and directly collect all or part of the retail margin. This category includes retail outlets: (1) be-

ing operated by salaried employees of the company and/or its subsidiaries and affiliates, and/or (2) involving personnel services contracted by the firm.

Sale: The transfer of title from the seller to a buyer for a price. Excludes intrafirm transfers, products consumed directly by the reporting firm, or sales of bonded fuel. Also excludes products delivered/loaned to exchange partners, except where the amount supplied exceeds the amount received and the differential is invoiced as a sale during the reference month.

Sales for Resale: Sales of refined petroleum products to purchasers who are other-than-ultimate consumers; wholesale sales.

Sales to End Users: Sales made directly to the consumer of the product. Includes bulk consumers such as agriculture, industry, and utilities, as well as residential and commercial consumers.

Sales Type: Sales categories of sales to end users and sales for resale.

Unit Price: Total revenue derived from the sale of product during the reference month divided by the total volume sold; also known as the weighted average price. Total revenue excludes all taxes but includes transportation costs that were paid as part of the purchase price.

United States: For the crude oil statistics, the United States includes the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, and all American Territories and Possessions. For the petroleum products data, United States includes the 50 States and the District of Columbia.

Wellhead: The point at which the crude (and/or natural gas) exits the ground. Following historical precedent, the volume and price for crude oil production are labeled as "wellhead," even though the cost and volume are now generally measured at the lease boundary. In the context of domestic crude price data, the term "wellhead" is the generic term used to reference the production site or lease property.

List of Articles

Articles

Feature articles on energy-related subjects are frequently included in this publication. The following articles and special focus items have appeared in previous issues.

Propane Market Assessment for Winter 1997-1997 . . . . . **December 1997**

A Contrast Between Distillate Fuel Oil Markets in Autumn 1996 and 1997 . . . . . December 1997

A Comparison of Selected EIA-782 Data With Other Data Sources . . . . . November 1997

Distillate Fuel Oil Assessment for Winter 1996-1997 . . . . . December 1996

Propane Market Assessment for Winter 1996-1997 . . . . . December 1996

Recent Distillate Fuel Oil Inventory Trends . . . . . June 1996

Recent Trends in Motor Gasoline Stock Levels . . . . . June 1996

Noncommercial Trading in the Energy Futures Market . . . . . May 1996

1995 Reformulated Gasoline Market Affected Refiners Differently . . . . . January 1996

Distillate Fuel Oil Assessment for Winter 1995-1996 . . . . . **November 1995**

Propane Assessment for Winter 1995-1996 . . . . . **November 1995**

Environmental Regulations and Changes in the Petroleum Refining Operations . . . . . **September 1995**

What Drives Motor Gasoline Prices? . . . . . **June 1995**

1995 Motor Gasoline Assessment . . . . . **May 1995**

Results of the Office of Oil and Gas "Outlook Survey" . . . . . **March 1995**

Distillate Fuel Oil Assessment for Winter 1994-1995 . . . . . **November 1994**

Propane Assessment for Winter 1994-1995 . . . . . **November 1994**

Sales of Fuel Oil and Kerosene in 1993 . . . . . **November 1994**

Impact of New Low-Sulfur Diesel Requirements, October through December 1993 . . . . . **November 1994**

Reformulated Gasoline Supply Issues . . . . . **November 1994**

A Comparison of Selected EIA-782 Data With Other Data Sources . . . . . **October 1994**

Demand, Supply, and Price Outlook for Reformulated Motor Gasoline 1995 . . . . . **August 1994**

The Second Oxygenated Gasoline Season . . . . . **June 1994**

Changes to the 1994 **PetroleumMarketingMonthly** . . . . . **May 1994**

Summer 1994 Motor Gasoline Outlook . . . . . **May 1994**

Sales of Fuel Oil and Kerosene in 1992 . . . . . **December1993**

Low-Sulfur Diesel: Requirements and Impacts **December1993**

Distillate Fuel Oil Outlook for Winter 1993-94 . . . . . **November 1993**

Propane Outlook for Winter 1993-1994 . . . . . **November 1993**

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The Economics of the Clean Air Act Amendments of 1990:
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