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Fuel Oil and Kerosene Sales 2002

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Fuel Oil and Kerosene Data Available Through Electronic Access

Annual petroleum marketing data are available through electronic access that contains statistics from the *Fuel Oil and Kerosene Sales 2002* report. Included are annual sales data on petroleum volumes of kerosene, distillate fuel oils, and residual fuel oils by State. Annual historical data at the national level are provided in summary tables.

For ***Fuel Oil and Kerosene Sales*** **on the Internet**, access EIA's home page at http://www.eia.doe.gov.

Internet Addresses:

E-Mail: infoctr@eia.doe.gov
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Further information as to content may be obtained from the National Energy Information Center (NEIC), telephone (202) 586-8800.

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Introduction

The *Fuel Oil and Kerosene Sales 2002* report provides information, illustrations and State-level statistical data on energy use sales of kerosene; No.1, No. 2, and No. 4 distillate fuel oil; and residual fuel oil. State-level kerosene sales include volumes for residential, commercial, industrial, farm, and all other uses. State level distillate sales include volumes for residential, commercial, industrial, oil company, railroad; vessel bunkering, military, electric power, farm, on-highway, off highway construction, and other uses. State-level residual fuel sales include volumes for commercial, industrial, oil company, vessel bunkering, military, electric power, and other uses. The Petroleum Division, Office of Oil and Gas, Energy Information Administration ensures the accuracy, quality, and confidentiality of the published data in the *Fuel Oil and Kerosene Sales 2002.*

NOTE: The 2001 adjusted numbers have been revised sice they were first published in the *Fuel Oil and Kerosene Sales 2001.* The revisions to the data were made to include new distillate fuel oil and residual fuel oil volumes for "Electric Power" and a new residual product supplied number. See the Adjusted Salres section and "Technical Note 3" in Appendix A for futher explanation.

Except for the kerosene and on-highway diesel information, data presented in Tables 1 through 12 (Sales of Fuel Oil and Kerosene) present results of the EIA-821 survey. Tables 13 through 24 (Adjusted Sales of Fuel Oil and Kerosene) include volumes that are based on the EIA-821 survey but have been adjusted to equal the products supplied volumes published in the *Petroleum Supply Annual* (PSA).

Tables 1 through 12 contain sales estimates resulting from the EIA-821 survey for all categories except kerosene and on-highway diesel. For on-highway diesel the survey was not expected to yield valid statistics because the sampling frame does not include a comprehensive listing of all truck stops. Hence, State-level data obtained from the Federal Highway Administration were used instead.

Kerosene sales data were not expected to be complete because a comprehensive listing of kerosene retailers was not available to serve as a sampling frame. It was thought that a complete frame would be expensive to construct because many kerosene retailers are convenience stores or other small businesses. Because of these concerns, kerosene sales data have been published only after adjusting the sales data so that they add to the U.S. total of kerosene product supplied from the PSA.

In Tables 13 through 24, estimates of distillate fuel oil are adjusted at the Petroleum Administration for Defense (PAD) district level to equal published PSA volume estimates of products supplied. For certain sales categories, data obtained from alternate sources are used instead of the adjusted numbers. See "Technical Note 3" in Appendix A for further explanation.

Kerosene and residual fuel oil in Tables 13 through 24 are adjusted at the national level to equal published PSA products supplied estimates. Thus the kerosene figures in Tables 13 through 24 are identical to those shown in Tables 1 through 12.

The sales data (Tables 1 through 12) differ from the adjusted sales estimates (Tables 13 through 24) with the exception of kerosene and on-highway diesel for many reasons, including:

- Some products are interchangeable (fungible) and may be supplied as one product and sold as another product. For example, kerosene, low-sulfur kerosene-type jet fuel, and low-sulfur No. 1 fuel oil can be used interchangeably.
- Products supplied into a PAD district may be blended prior to final sale. For example, residual fuel and No. 2 distillate may be blended and sold as No. 4 fuel oil or, in colder climates, kerosene may be blended with distillate fuel oil and sold as heating oil.
- Geographic differences can be attributed to the transportation of product by truck or rail from the district of production. Inter-PAD district movements of products by these modes of transportation are not accounted for in Tables 13 through 24.
- Products may be supplied into a PAD district but the final sale may cross PAD district boundaries. For example, a fuel oil dealer in Ohio (PAD District 2) may make retail sales into Pennsylvania (PAD District 1B) and/or West Virginia (PAD District 1C).
- Drawdowns or buildups in stocks will cause volumes supplied to differ from sales volumes.

Highlights

Sales of Fuel Oil and Kerosene in 2002

The absence of fuel switching opportunities, a somewhat sluggish economy, and a milder winter than normal combined to reduce demand in a number of oil consuming sectors and resulted in the first drop in distillate sales in more than a decade. Total distillate sales fell slightly (0.9 percent) by 569 million gallons from the all-time high set in 2001 to 59.3 billion gallons.

In 2001 sales of residual fuel surged, boosted by significant volumes of fuel switching. In 2002, without the fuel switching, residual fuel oil sales fell sharply (23.9 percent) in a continuation of the long-term trend of declining sales of heavy fuel oil. Sales of kerosene also fell sharply (40.1 percent) from the all-time high of 2001.

The relatively small decrease in distillate sales, combined with sizable drops in sales of residual fuel oil and kerosene, resulted in distillate sales accounting for a considerably larger share of the overall fuel oil market in 2002 compared to 2001. In 2002 distillate sales accounted for 84.3 percent of total sales, compared to 80.3 percent in 2001. In 2002 sales of residual fuel oil accounted for 14.7 percent of total sales, down from 18.2 percent in 2001. Sales of kerosene accounted for the remaining 0.9 percent, compared to 1.5 percent of total sales in 2001.[1]

Distillate Fuel Oil

For the first time in more than a decade, sales of distillate fuel oil fell. Sales totaled 59.3 billion gallons, a drop of 569 million gallons from the all-time high set the preceding year and nearly 260 million gallons below the total volume of distillate sold in 2000. Although the drop in sales is the first in more than a decade, it should be noted within the context of what occurred in 2001, when the distillate sales increase was the smallest of the previous decade (approximately 310 million gallons) and represented only about one-fifth of the average increase of the previous 10 years.[2]

Table HL1. Volume Distribution of Distillate and Residual Fuel Oils, 2001 and 2002

Energy Use	Distillate 2002		Distillate 2001		Residual 2002		Residual 2001	
	Volume (million gallons)	Percent Share	Volume (million gallons)	Percent Share	Volume (million gallons)	Percent Share	Volume (million gallons)	Percent Share
Residential	6,377	10.8	6,643	11.1	—	—	—	—
Commercial	3,293	5.5	3,718	6.2	572	5.6	648	4.8
Industrial	2,384	4.0	2,466	4.1	1,251	12.4	1,747	12.8
Oil Company	771	1.3	748	1.2	109	1.1	132	1.0
Farm	3,418	5.8	3,584	6.0	—	—	—	—
Electric Power	751	1.3	1,344	2.2	3,575	34.5	5,647	41.5
Railroad	3,245	5.5	3,040	5.1	—	—	—	—
Vessel Bunkering	2,079	3.5	2,044	3.4	4,848	46.8	5,409	39.7
On-Highway	34,309	57.8	33,215	55.4	—	—	—	—
Military	357	0.6	401	0.7	4	0.0	20	0.1
Off-Highway	2,358	4.0	2,708	4.5	—	—	—	—
Other	0	0.0	0	0.0	3	0.0	5	0.0
Total	59,343		59,911		10,362		13,609	

Notes: Totals may not equal sum of components due to independent rounding.
Sources: Energy Information Administration, Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report,"2000 and 2001.

[1]Numbers may not sum to 100 percent due to rounding.

[2]The average increase during the period 1991-2001 was 1.47 billion gallons. Distillate sales increased by more than 2.0 billion gallons in both 1999 and 2000.

In 2002 a number of factors had a negative influence on the volume of distillate fuel sold. First, and by far the most significant impact on sales, was the change in the relationship between prices of natural gas and distillate fuel oil. During the winter of 2001 unusually expensive natural gas made fuel switching from gas to oil attractive to any consumers having that option. During the winter of 2002, with more moderate natural gas prices, the opportunity for fuel switching disappeared. Sales of distillate fuel oil to the industrial and commercial sectors, and especially to the electric power sector, fell sharply as a result. Sales of distillate fuel to the industrial sector fell by 3.3 percent and sales to the electric power sector plunged by 44.1 percent.[3]

Second, even as the economy showed signs of improving from the slowdown in 2001, some economic indicators and some sectors of the economy lagged. Despite strong demand for oil products in some sectors, demand was negatively impacted in other areas of the economy.

Although overall Gross Domestic Product (GDP), a prime measure of the state of the economy, increased by 2.4 percent in constant dollars, unemployment also increased from 4.7 to 5.8 percent.[4] In addition, even though total energy consumption in the United States increased by 1.4 percent from 96.32 quads during 2001 to 97.622 quads in 2002, the overall increase only partially offset the drop that occurred in 2001. Total energy consumption in 2002 remained approximately 1.3 quads below the all-time high rate of 98.942 quads in 2000.[5] Further, industrial production and capacity utilization rates fell, and the overall value of new construction also fell slightly. A drop of 23.4 percent in the value of new commercial and industrial construction more than offset the 6.8 percent increase in new residential construction that was spurred by low interest rates.

Third, weather also played a role in lowering distillate demand in 2002. On the surface, since the number of heating degree days in 2001 and 2002 was almost identical, with 2002 having a slightly higher total, it could be inferred that there should be little difference in the demand for sales of distillate between the two years and that a small increase in sales in 2002 could be expected. Yet sales fell sharply in 2002, partly due to differences in the weather. Major differences in the day-to-day peak demand for electricity are much more significant than the raw totals. Many days in the first quarter of 2001 were significantly colder than in 2002, especially in the primary oil-burning areas of the U.S. (New England, Central Atlantic and East North Central). These three areas were 15 to 25 percent colder in the first quarter of 2001 than was the case in 2002.

Further, although weather impacts residential and commercial use of distillate, the weather has the greatest effect on the use of distillate as a peaking fuel by electric generators. Such units are used in the winter when it is very cold and when interruptible contract provisions are triggered, forcing some users of natural gas to switch to alternatives. Consequently, in 2002 the weather and a number of different factors combined to limit sales of distillate to the electric power sector, where sales plunged by nearly 600 million gallons (44.1 percent). These other factors in 2002 included: the absence of incentives or any opportunities for fuel switching; increased natural gas capacity in the electric power sector; increased generation of electricity by hydroelectric plants; and only a small increased in demand for electricity.

Finally, and to a limited extent, considerably warmer than normal summer weather helped limit the drop in demand for distillate as some electric power producers used distillate fuel to run peaking facilities as they strove to meet peak summer cooling needs.[6] For example, in New England and the Lower Atlantic, a number of electric power generators reported using higher volumes of distillate to produce electricity to meet peak summer demand.[7]

The transportation sector fared far better in 2002 than was the case in 2001 when distillate sales dropped due to the aftermath of the September 11 attacks. In fact, sales of distillates for use as bunker fuel, for railroads,

[3] Although sales to the commercial sector dropped (11.4 percent), differing weather conditions, installation of new gas-fired equipment, and conversion of existing facilities played a more significant role in the decline than did the absence of fuel switching.

[4] *Economic Indictors*, September 2003, Washington D.C. U.S. Government Printing Office, p. 12 . (Data are adjusted for inflation using 1996 as the base).

[5] One quad equals one quadrillion (a one followed by fifteen zeros) British thermal units (Btu). Source EIA, *Monthy Energy Review*, October 2003, Table 2.1.

[6] The summer of 2002 was both warmer than the summer of 2001 and considerably warmer than normal. Temperatures during the summer as measured by cooling degree days were warmer than normal in all regions of the country. In three census regions, the number of cooling degree days were slightly above normal, ranging between 3.5 and 6.9 percent above normal; two regions were moderately warmer than normal by as much as 15.8 percent warmer; and in four regions the number of cooling degree days was significantly higher than normal, by as much as 35 percent.

[7] Smaller peaking units, especially older units are often combustion turbines (in some cases converted jet turbine engines that run on No 2 fuel oil).

and for on-highway diesel all increased and the combined sales to the transportation sector accounted for 66.8 percent of total distillate sales compared to about 63.9 percent in 2001. Sales of on-highway diesel increased by more than one billion gallons or 3.3 percent; although the magnitude of that increase is large, particularly in comparison to the increase that occurred in 2001, it is similar in magnitude to the increase in 2000 and only somewhat more than half the size of the increase that occurred in 1999. Sales of railroad diesel increased by nearly 206 million gallons (6.8 percent) and sales of distillate bunker fuel increased slightly rising 34.9 million gallons (1.7 percent).

The impact on sales of the changing relationship between natural gas and oil prices and changing fuel use patterns can be seen in the commercial sector where distillate sales fell for the first time since 1998, falling by 11.4 percent (approximately 425 million gallons). At the same time, sales of natural gas to commercial consumers, which had fallen by 4.6 percent in 2001, increased by 2.8 percent in 2002. The increased use of natural gas in 2002 came about with the absence of fuel switching on the part of those commercial consumers with the ability to switch and the increase in natural gas demand to meet the number of both new gas-fired heating applications as well as the on-going process of conversion of existing heating equipment from oil to natural gas. Reflecting the overall drop in energy use in the industrial sector, and the impact of lower natural gas prices on fuel switching opportunities, sales of distillate fuel for use in industrial applications dropped by 82 million gallons (3.3 percent).

In 2002, weather, the ever present and often dominant factor in influencing fuel sales to the agricultural sector, negatively impacted the production of a number of the major crops including wheat, corn, and soybeans. Drier, hotter weather and, in some cases, severe drought conditions played the major role in reducing the production of soybeans by 6 percent, corn by 5 percent and wheat by 17 percent.[8] As the volume of crops harvested shrank, the volume of distillate sold to the agricultural sector also fell, dropping by 166 million gallons (4.6 percent).

Although low interest rates helped boost construction of new residential units by 6.8 percent, lingering economic problems and the growth in unemployment, contributed to depressed distillate sales to the off-highway and the construction sectors.[9] Due to the drop in the value of new commercial and industial construction of 23.4 percent, sales of distillate fuel oil for construction and off-highway uses fell by 350 million gallons (12.9 percent).

Despite a drop in the number of operating drilling rigs of nearly 28 percent and the credit crunch that led to budget cuts by some energy companies, oil company direct use of distillate fuel increased slightly during 2002. The number of active drilling rigs continued to fall through April when the level reached 750, the lowest number since October 1999. After April, the number of rigs increased, slowly at first but continuing throughout the remainder of the year. By December, the number of rigs was only 5 percent below the number in operation during December of 2001. Not unexpectedly, given the circumstances, the increase in distillate sales for oil company use was less than half the size of the increase that occurred in 2001. In 2002, sales increased by 24 million gallons (3.1 percent) compared to an increase of 61.2 million gallons (8.9 percent) in 2001.[10]

On a regional basis, sales of distillate to the home heating oil sector decreased in PAD Districts 1, 2, 4 and 5.[11] Sales in PAD District 1 (East Coast), fell the most, decreasing by approximately 215 million gallons (3.7 percent). Sales of home heating oil fell in each of the three subdistricts, by 33 million gallons in New England, by 157 million gallons in Central Atlantic, and by approximately 24 million gallons in Lower Atlantic. Sales also fell in PAD District 2 by approximately 27 million gallons; in PAD District 4 (Rocky Mountain) sales dropped by approximately 4 million gallons; and in PAD District 5 (West Coast) sales fell by 21 million gallons. Sales in PAD District 3 (Gulf Coast) increased sharply, by nearly 29 percent, however, on a volumetric basis sales, increased by less than one million gallons compared to the level of sales achieved in 2001.

Sales to the commercial sector fell throughout all regions of the U.S. without exception. Sales fell the most in the Lower Atlantic portion of PAD District 1 and in

[8]Department of Agriculture, National Agricultural Statistics Service, *Statistical Highlights 2003: Overview, U.S. Crop Summary, p. 68 and ff.*

[9]*Economic Indicators,* April 2003, Washington, D.C. U.S Government Printing Office, p. 12.

[10]Baker Hughes, North American Rig Counts, U.S. Monthly Averages by State 1992-2003, (http://www.bakerhughes.com/investor/rig/rig_na.htm).

[11]The U.S. is divided into 5 Petroleum Administration for Defense Districts (PAD Districts). District 1, East Coast, District 2, Midwest, District 3, Gulf Coast, District 4, Rocky Mountain, and District 5, West Coast. PAD District 1 is broken into three subdistricts: Subdistrict 1A, New England, Subdistrict 1B, Central Atlantic, and Subdistrict 1C, Lower Atlantic.

PAD District 2; sales fell the least in the Central Atlantic portion of PAD District 1 and in the Rocky Mountain region, PAD District 4. To some extent, the decline reflects the absence of fuel switching opportunities and changing fuel use patterns including conversion of some commercial establishments from oil to natural gas.[12]

In 2002, sales of distillate to the industrial sector decreased generally, falling throughout the nation with the exception of PAD District 4 and PAD District 1C. Sales increased by 53.3 million gallons in the Lower Atlantic and by 7.1 million gallons in the Rocky Mountain region. Sales fell the most in PAD District 5 (by 80.5 million gallons) and in PAD District 1B (by 38.2 million gallons).

Unlike 2001, when the events of September 11 and support activity for the action in Afghanistan boosted sales to the military, during 2002 sales dropped by nearly 44 million gallons (10.9 percent). The drop in sales was particularly acute in PAD District 2 where sales fell by nearly one-half (8.9 million gallons). The largest drop in volume took place in PAD District 3 where sales fell by 22.2 million gallons (20.8 percent). Sales improved in only two areas, PAD District 4 and in PAD District 1B which includes Washington, D.C.. Sales increased in the Rocky Mountain region by 0.8 million gallons and by 2.3 million gallons in the Central Atlantic region.

The adverse weather conditions that resulted in a drop in sales to the farm sector nationally, were widespread regionally. Sales to the agricultural sector fell in all five PAD Districts as warm dry weather and drought in several states resulted in poor harvests and correspondingly reduced demand for fuels for processing and harvesting. Sales in PAD District 2 which includes several of the major agricultural states, fell the most (88.3 million gallons). The second largest drop in volume occurred in PAD District 5 (West Coast), which includes California, the leading agricultural state in terms of the value of the crop production. Sales in PAD District 5 fell by just under 50 million gallons. The single exception to the pattern of falling sales occurred in New England, where warmer than normal weather conditions helped to boost production and consequently demand for fuel. Sales in New England increased by approximately 3.4 million gallons (11.9 percent).

Although distillate sales to the electric power sector fell sharply in all regions of the country, sales fell the most in PAD District 1C by 146 million gallons (41.3 percent), and in PAD District 3 (Gulf Coast) where sales dropped by 291 million gallons (79.9 percent).

Residual Fuel Oil

Natural gas prices typically increase with the approach of winter, however, during the winter of 2001, natural gas prices surged to record levels and, as a consequence, consumers with the ability to switch from gas to oil did so in large numbers leading to sharp increases in the sales of residual fuel oil to industrial and large commercial consumers and, in particular, to electric power producers. In 2002 as natural gas prices moderated, price differentials between natural gas and oil returned to a more typical relationship; with no window of opportunity opening, significantly less fuel switching occurred and total sales of residual fuel oil plunged, dropping by nearly 3.2 billion gallons (23.9 percent).

Although the magnitude of the drop in the volume is very large, it should be viewed in the context of the unusual circumstances that contributed to the significant increase in volume in 2001. In apparent contradiction to the long-term trend of decline, total sales of residual fuel oil increased during 2001. However, a close examination of the data leads to the conclusion that sales increased as the result of unusually high prices for natural gas that led, in turn, to significant volumes of fuel-switching and resulted in a surge in demand in the industrial and electric power sectors sufficient to overcome losses in other areas of the market. In 2001, with the exception of sales to those two sectors, residual fuel oil sales fell by more than 1 billion gallons. Consequently, absent the unusual circumstances in play in 2001, it is not surprising that sales of residual fuel oil dropped sharply during 2002.

The drop in sales continued a trend of more than a decade that reflects both factors within in the energy sector and externalities as well. Between 1989 and 2002, total sales of residual fuel oil have fallen by more than 52.5 percent. A number of factors contributed to this sustained and general decline in the production of and demand for residual fuel oil. Among the principle reasons for the decline are: changing crude oil specifications and increased refinery sophistication resulting in

[12]Some sales of distillate fuel for use in school buses were reclassified from commercial to the on-road category.

increased production of gasoline and distillate at the expense of production of heavier products such as residual fuel oil.[13] In addition, environmental constraints and restrictions on fuel oil use, and availability of abundant, relatively inexpensive natural gas have contributed to a diminished use of residual fuel oil in the production of electric power.[14] For residual fuel oil, although the overall trend is down, significant fluctuations in the amount of fuel sold will occur whenever price differentials make switching attractive and whenever interruptible gas contracts take effect during the coldest winter periods.

In 2002, sales to the electric power sector plunged, falling throughout the country. By far, the largest drop in sales for electric power generation occurred in Central Atlantic and Lower Atlantic portions of PAD District 1 where the sales increase of 2001 had been the largest. Sales plunged by 621 million gallons (47.6 percent) in Central Atlantic, and by 628 million gallons (23.6 percent) in Lower Atlantic. In PAD District 5 sales of residual fuel for the generation of electric power fell by 78 million gallons (14.3 percent). This compares to the situation that existed in 2001, when natural gas prices reached unusually high levels leading to an increase of residual fuel oil use for electric power of 29.5 percent. Residual fuel oil was delivered to California and Arizona by rail from the Gulf Coast, by ship from the Orient, and even by truck to supply fuel to some power plants in the region.

Sales of residual fuel to the bunker fuel market continued to fall. Although sales dropped by 562 million gallons (10.4 percent), the amount of the decline was nonetheless considerably smaller than was the case in 2001 when sales fell by 1 billion gallons. However, it should be noted that at least some portion of the apparent drop in sales during 2001 resulted from reporting errors in the past that included sales for resale along with actual bunker sales data.

Although sales for direct use by oil companies fell by 17.8 percent nationally, that figure may be somewhat misleading. Sales increased in PAD Districts 3, 4 and 5 as well as in New England and Lower Atlantic portions of PAD District 1. Sales fell sharply in PAD District 2 (down by 41.7 percent) and in the Central Atlantic portion of PAD District 1 where sales fell by nearly one third and where the losses more than made up for the small volumetric increases elsewhere in the district.

Despite the fact that sales of residual fuel oil to the industrial sector fell at the national level, regional sales were somewhat mixed. The largest drop occurred along the East Coast where sales fell by a total of 451 million gallons and accounted for approximately 91 percent of the total decline in sales to the industrial sector. Sales in the Gulf Coast, Rocky Mountain, and West Coast regions of the country increased somewhat. It should be noted that although the increases appear significant in percentage terms the volumetric gains amounted to less than 4 percent of total residual sales to the industrial sector.

Overall, total sales to the commercial sector declined by 76 million gallons (11.7 percent). However, on a regional basis, sales were mixed. The bulk of the drop in sales occurred in Central Atlantic and Lower Atlantic portions of PAD District 1 where sales in the two regions fell by approximately 73 million gallons. The remainder of the decline in sales occurred in PAD Districts 3, 4, and 5 but amounted to less than 6 million gallons in total. On a volumetric basis, sales to the commercial sector increased very slightly (by approximately 3 million gallons) in the New England portion of PAD District 1 and in PAD District 2.

The downward trend in sales of residual fuel oil to the military continued during 2002.[15] On a regional basis, sales fell sharply in the three PAD Districts (1, 2, and 5) where sales to the military were recorded.[16]

Kerosene

Sales of kerosene fell in all consuming sectors. Total sales decreased by 445 million gallons, a drop of 40.1 percent. Sales fell the most in the residential sector, down 260 million gallons (37.0 percent). Sales to the

[13] It should be noted that the ability to increase production of light higher-value products does not typically mean that refineries with upgraded processing capacity no longer possess the ability to produce heavier products such as residual fuel; rather, the economics involved dictate the production of the higher value products.

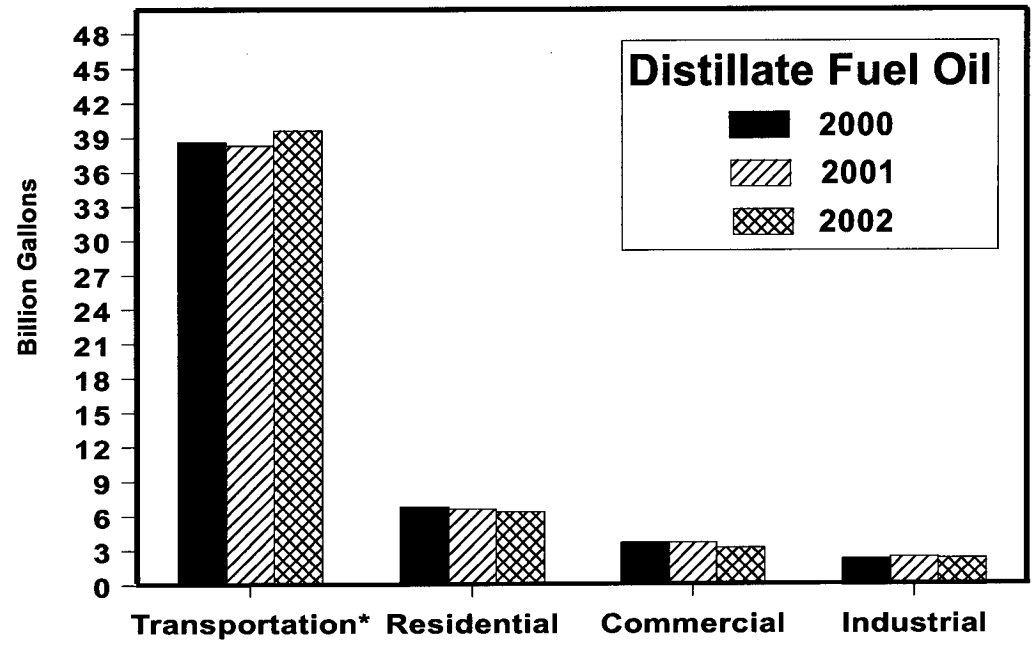
[14] Due to the divestiture of many electric power generation facilities, changes in fuel use and plant operations also contributed to the decline of residual fuel oil. For example, operators of these merchant plants blend fuels to achieve greater efficiency and to lower emissions of dirtier fuels (oil blended with natural gas and even oil and coal). When it is advantageous, the operators also may purchase power rather than generate electricity and re-sell the fuel.

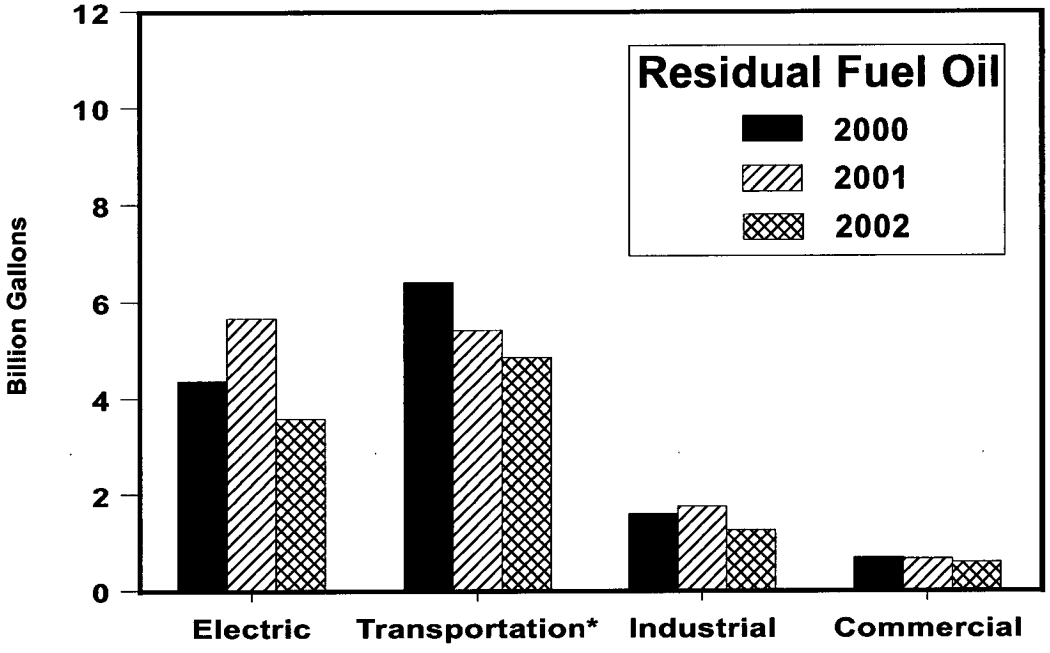
[15] Since 1997, sales have fallen by approximately 92 percent.

[16] No sales of residual fuel to the military were recorded in PAD District 3 or 4 in either 2001 or 2002.

commercial sector fell by 114 million gallons (49.2 percent). Sales to the industrial and farm sectors also fell by 45.2 percent and 28.6 percent, respectively.

Figure HL1. U.S. Sales of Distillate and Residual Fuel Oils by Energy Use, 2000-2002

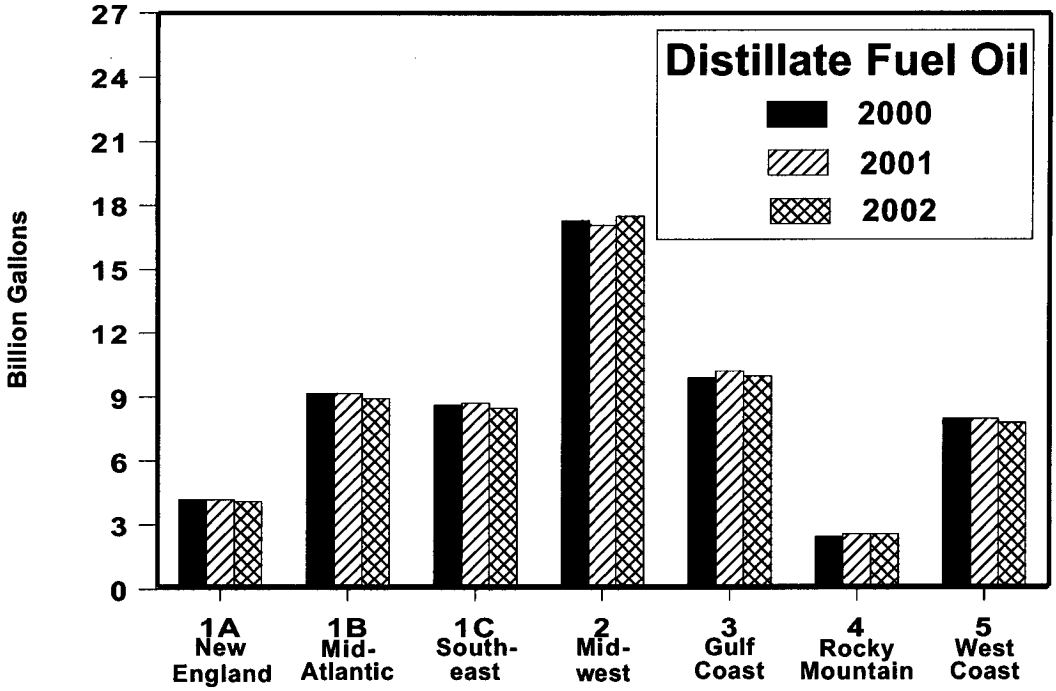


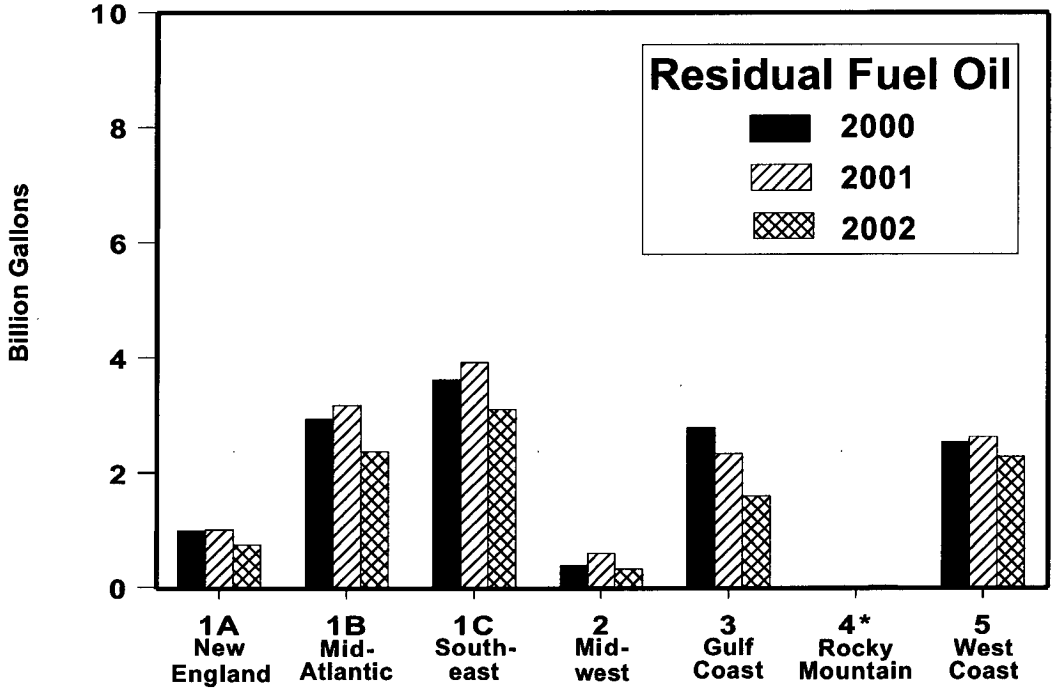


*For distillate fuel oil, transportation use comprises railroad, vessel bunkering, and on-highway diesel energy use categories. For residual fuel oil, transportation use comprises the vessel bunkering energy use category.

Sources: Energy Information Administration, Form EIA-821, "Fuel Oil and Kerosene Sales Report," 2001 and 2002.

Figure HL2. Volume Distribution of Distillate and Residual Fuel Oils by PAD District, 2000-2002



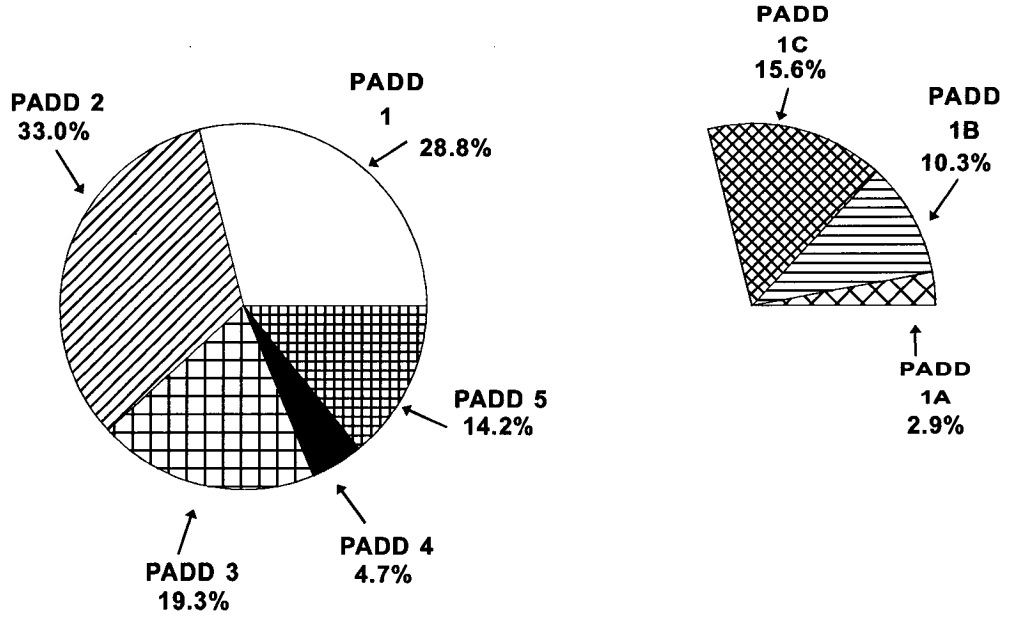


*Residual fuel oil sales in PAD District IV are too small to appear in this graph.

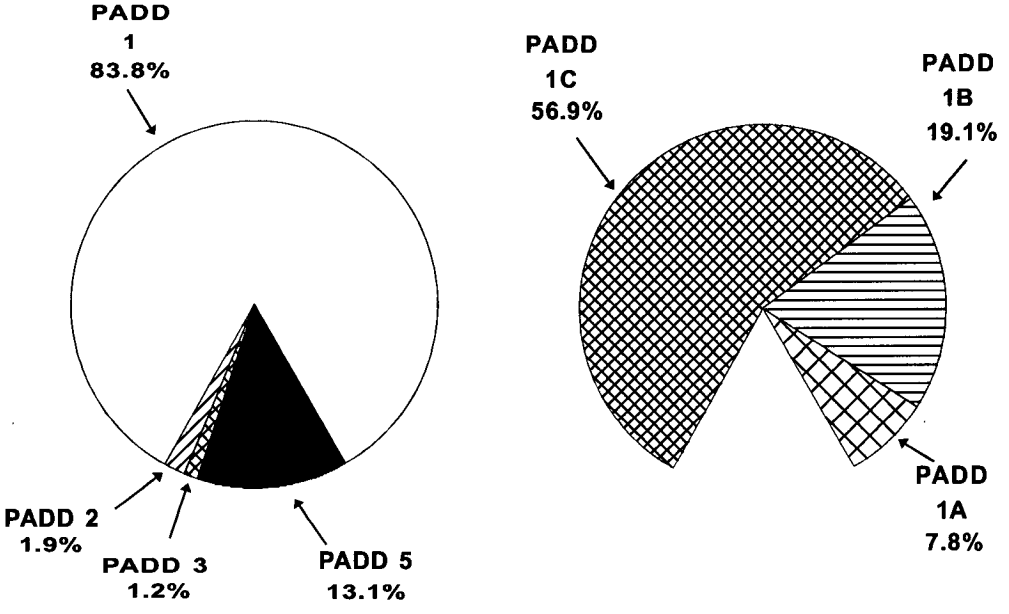
Sources: Energy Information Administration, Form EIA-821, "Fuel Oil and Kerosene Sales Report," 2001 and 2002.

Figure HL3. Distillate and Residual Fuel Oil Sales for Selected Energy Use Categories by PAD District, 2002

Distillate: Transportation



Residual: Electric Power



Sources: Energy Information Administration, Form EIA-821, "Fuel Oil and Kerosene Sales Report," 2002.

Table 1. Sales of Distillate Fuel Oil by Energy Use in the United States: 1998-2002
(Thousand Gallons)

Energy Use	Distillate Fuel Oil				
	1998	1999	2000	2001	2002
U.S. Total	**55,305,694**	**57,573,018**	**59,601,230**	**59,911,345**	**59,342,633**
Residential	5,819,959	6,302,466	6,830,455	6,642,941	6,376,653
Commercial	3,233,350	3,338,242	3,706,345	3,717,862	3,293,387
Industrial	2,462,355	2,477,719	2,330,870	2,466,456	2,384,383
Oil Company	783,719	659,039	686,454	747,627	770,682
Farm	3,410,801	3,411,623	3,454,861	3,584,104	3,418,452
Electric Power	840,731	816,008	1,015,100	1,343,761	750,557
Railroad	3,180,124	3,239,044	3,290,507	3,039,761	3,245,482
Vessel Bunkering	2,595,076	2,419,336	2,261,422	2,044,049	2,078,921
On-Highway Diesel	30,150,191	32,062,447	33,129,664	33,215,320	34,308,885
Military	352,189	356,602	306,170	401,236	357,359
Off-Highway Diesel	2,477,199	2,490,492	2,589,383	2,708,228	2,357,872

Notes: • Totals may not equal sum of components due to independent rounding.
Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 1998-2002. • On-Highway Diesel data are Federal Highway Administation statistics of highway special fuels use.

Table 2. Sales of Residual Fuel Oil by Energy Use in the United States: 1998-2002
(Thousand Gallons)

Energy Use	Residual Fuel Oil				
	1998	1999	2000	2001	2002
U.S. Total	**14,729,841**	**13,328,058**	**13,210,935**	**13,609,379**	**10,361,615**
Commercial	715,111	645,927	664,360	647,758	572,039
Industrial	1,797,906	1,700,054	1,585,140	1,747,367	1,250,634
Oil Company	127,464	123,984	153,522	132,177	108,673
Electric Power	6,431,746	4,990,083	4,362,680	5,647,433	3,575,249
Vessel Bunkering	5,620,417	5,838,128	6,409,863	5,409,378	4,847,704
Military	33,648	25,702	28,427	20,117	3,882
All Other	3,549	4,181	6,942	5,149	3,435

Notes: • Totals may not equal sum of components due to independent rounding.
Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 1998-2002.

Table 3. Sales of Kerosene by Energy Use in the United States: 1998-2002
(Thousand Gallons)

Energy Use	Kerosene				
	1998	1999	2000	2001	2002
U.S. Total	**1,196,580**	**1,118,124**	**1,036,014**	**1,108,926**	**664,314**
Residential	802,348	823,436	700,532	704,305	443,919
Commercial	230,743	199,577	219,633	232,608	118,125
Industrial	123,246	58,279	86,844	141,317	77,508
Farm	26,823	26,312	23,084	27,162	19,390
All Other	13,420	10,521	5,921	3,535	5,372

Notes: • See Technical Note 3 for further explanation on adjustments. • Kerosene data in the Sales tables (1-12) are adjusted at the national level. • Totals may not equal sum of components due to independent rounding.

Sources: • Kerosene data are based on data from the Energy Information Administration's Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 1998-2002 and the "Petroleum Supply Annual," Volume 1, 1998-2002, (DOE/EIA-0340(98)/1 - (02)/1).

Table 4. Sales of Distillate Fuel Oil by Energy Use, 2001 and 2002

(Thousand Gallons)

Destination	Residential		Commercial		Industrial	
	2001	2002	2001	2002	2001	2002
U.S. Total	**6,642,941**	**6,376,653**	**3,717,862**	**3,293,387**	**2,466,456**	**2,384,383**
PAD District 1 Total	**5,764,375**	**5,549,350**	**2,343,499**	**2,142,071**	**801,129**	**795,157**
Subdistrict 1A Total	**2,259,990**	**2,226,579**	**576,048**	**540,673**	**82,307**	**61,238**
Connecticut	579,489	565,684	144,988	124,644	24,716	16,094
Maine	291,822	291,542	107,198	117,558	15,389	16,577
Massachusetts	949,697	953,235	179,678	165,649	25,589	11,094
New Hampshire	192,669	179,862	74,362	66,826	7,691	7,331
Rhode Island	151,758	144,952	26,835	28,618	3,139	4,186
Vermont	94,555	91,304	42,986	37,377	5,783	5,956
Subdistrict 1B Total	**3,102,794**	**2,945,645**	**1,261,439**	**1,210,999**	**245,833**	**207,590**
Delaware	42,771	42,754	12,922	14,654	3,541	3,554
District of Columbia	8,481	15,199	23,065	12,778	262	192
Maryland	204,380	190,081	107,053	107,941	29,019	26,378
New Jersey	403,378	390,944	144,583	104,265	40,180	25,212
New York	1,555,018	1,420,939	718,463	649,354	46,039	45,491
Pennsylvania	888,766	885,729	255,353	322,007	126,792	106,763
Subdistrict 1C Total	**401,591**	**377,126**	**506,012**	**390,399**	**472,989**	**526,329**
Florida	5,178	4,042	129,360	110,928	74,386	55,149
Georgia	2,590	2,376	68,643	44,344	76,336	73,644
North Carolina	132,840	121,287	131,882	86,037	81,738	50,440
South Carolina	17,866	16,691	32,766	28,900	32,094	15,506
Virginia	220,962	210,973	126,065	106,131	99,407	88,602
West Virginia	22,155	21,757	17,295	14,060	109,029	242,990
PAD District 2 Total	**620,807**	**594,109**	**671,535**	**571,142**	**700,432**	**699,833**
Illinois	13,615	11,404	77,333	70,866	75,682	69,476
Indiana	33,187	36,407	67,134	59,558	133,003	131,292
Iowa	17,665	25,065	23,165	19,601	16,503	10,243
Kansas	1,894	1,549	34,363	27,456	18,810	13,301
Kentucky	19,441	17,506	47,825	46,117	135,362	146,214
Michigan	113,065	95,570	64,959	41,743	33,409	25,735
Minnesota	97,450	95,716	48,292	35,459	29,511	40,378
Missouri	17,217	12,533	66,382	42,960	40,370	49,072
Nebraska	3,459	2,940	10,356	3,991	4,030	5,766
North Dakota	20,943	18,335	11,144	6,121	12,656	10,000
Ohio	117,761	137,168	80,330	97,454	80,167	85,446
Oklahoma	108	85	28,652	15,108	20,238	20,373
South Dakota	15,602	11,547	10,703	7,757	7,375	9,003
Tennessee	7,075	4,958	39,850	44,671	34,871	27,478
Wisconsin	142,324	123,325	61,048	52,280	58,445	56,056
PAD District 3 Total	**2,209**	**2,841**	**256,276**	**195,072**	**354,683**	**352,592**
Alabama	1,647	1,578	35,660	33,827	55,112	57,837
Arkansas	35	371	25,278	19,284	15,226	26,100
Louisiana	63	377	11,791	16,395	69,973	74,564
Mississippi	231	46	14,127	11,324	40,218	32,254
New Mexico	194	302	14,906	14,199	31,688	36,161
Texas	39	167	154,514	100,044	142,467	125,677
PAD District 4 Total	**30,129**	**26,360**	**98,512**	**77,924**	**230,315**	**237,408**
Colorado	2,392	1,066	26,943	21,465	26,000	30,808
Idaho	15,570	15,140	15,831	14,188	26,089	19,094
Montana	7,243	5,290	8,381	5,935	20,473	22,592
Utah	3,868	3,564	29,656	24,110	32,856	38,951
Wyoming	1,056	1,300	17,700	12,225	124,897	125,964
PAD District 5 Total	**225,420**	**203,993**	**348,039**	**307,178**	**379,897**	**299,393**
Alaska	77,691	64,396	71,817	53,512	40,794	48,987
Arizona	278	406	32,624	35,937	95,410	73,780
California	12,502	6,338	120,908	94,610	76,558	52,537
Hawaii	12	13	5,807	13,397	3,714	2,483
Nevada	9,307	8,979	14,293	15,440	69,716	60,700
Oregon	44,851	41,948	51,301	44,367	51,650	35,596
Washington	80,778	81,914	51,289	49,915	42,054	25,310

See footnotes at end of table.

Table 4. Sales of Distillate Fuel Oil by Energy Use, 2001 and 2002 (Continued)

(Thousand Gallons)

Destination	Oil Company		Farm		Electric Power	
	2001	2002	2001	2002	2001	2002
U.S. Total	**747,627**	**770,682**	**3,584,104**	**3,418,452**	**1,343,761**	**750,557**
PAD District 1 Total	**22,612**	**26,012**	**514,314**	**495,343**	**501,708**	**345,651**
Subdistrict 1A Total	**196**	**40**	**28,818**	**32,254**	**17,627**	**8,881**
Connecticut	8	6	6,376	7,960	2,105	1,367
Maine	–	34	7,108	8,088	38	320
Massachusetts	188	–	3,618	5,482	9,303	3,405
New Hampshire	–	–	4,950	4,997	2,201	2,185
Rhode Island	–	–	60	136	2,499	1,191
Vermont	–	–	6,706	5,592	1,482	414
Subdistrict 1B Total	**14,713**	**19,255**	**113,382**	**111,400**	**130,668**	**129,282**
Delaware	9,132	11,183	7,197	8,432	5,371	4,456
District of Columbia	–	–	–	–	17,406	19,246
Maryland	61	8	20,663	15,315	56,665	23,845
New Jersey	181	296	11,617	10,149	5,420	18,415
New York	93	1	40,530	44,649	16,864	10,697
Pennsylvania	5,246	7,767	33,375	32,855	28,942	52,622
Subdistrict 1C Total	**7,702**	**6,716**	**372,114**	**351,690**	**353,413**	**207,488**
Florida	209	219	124,165	133,634	153,989	125,324
Georgia	969	90	142,755	118,586	32,033	10,335
North Carolina	1	276	45,286	44,171	48,642	31,432
South Carolina	–	603	21,835	20,873	30,151	14,807
Virginia	218	425	35,370	32,970	71,647	10,281
West Virginia	6,305	5,104	2,703	1,455	16,952	15,308
PAD District 2 Total	**52,767**	**47,371**	**1,801,106**	**1,712,833**	**226,916**	**143,793**
Illinois	376	528	155,262	153,987	16,356	8,840
Indiana	66	66	90,329	87,329	31,702	15,010
Iowa	–	–	236,261	230,919	6,761	2,894
Kansas	6,313	8,844	158,360	151,596	10,238	5,184
Kentucky	999	467	37,374	36,361	6,059	10,319
Michigan	26	25	53,420	48,537	31,958	23,974
Minnesota	–	2	139,016	119,518	14,084	5,730
Missouri	74	155	63,132	70,146	14,083	6,910
Nebraska	–	–	196,784	201,222	2,833	683
North Dakota	5,955	3,838	115,070	97,073	1,586	1,620
Ohio	1,924	1,734	84,438	92,156	35,736	27,126
Oklahoma	36,952	31,621	64,083	64,616	10,468	10,348
South Dakota	73	12	67,538	56,734	1,102	701
Tennessee	9	–	35,829	31,413	36,174	18,185
Wisconsin	–	80	304,210	271,224	7,777	6,269
PAD District 3 Total	**591,089**	**620,054**	**539,050**	**537,705**	**363,916**	**73,061**
Alabama	67	245	22,000	21,295	21,733	3,005
Arkansas	1,976	1,427	116,946	112,539	4,754	5,344
Louisiana	308,492	338,520	66,094	70,195	28,705	8,390
Mississippi	4,468	8,830	71,705	65,022	2,904	1,317
New Mexico	25,571	20,613	17,981	15,745	3,222	2,785
Texas	250,516	250,419	244,324	252,909	302,599	52,221
PAD District 4 Total	**22,838**	**21,690**	**178,242**	**170,752**	**21,260**	**6,923**
Colorado	4,802	4,482	46,381	46,346	13,439	1,868
Idaho	–	–	59,057	60,617	448	19
Montana	3,212	1,268	41,229	38,649	497	–
Utah	275	771	15,169	12,362	2,271	1,896
Wyoming	14,541	15,169	16,406	12,778	4,604	3,140
PAD District 5 Total	**58,321**	**55,555**	**551,392**	**501,820**	**229,961**	**181,128**
Alaska	41,552	38,615	12	16	56,687	49,676
Arizona	176	378	36,015	38,030	21,819	4,988
California	12,187	12,618	401,893	360,343	22,859	6,915
Hawaii	92	4	10,704	9,526	104,601	112,254
Nevada	39	1,099	6,073	5,475	942	2,001
Oregon	335	2,057	47,253	51,794	11,929	4,807
Washington	3,939	785	49,442	36,635	11,124	488

See footnotes at end of table.

Table 4. Sales of Distillate Fuel Oil by Energy Use, 2001 and 2002 (Continued)

(Thousand Gallons)

Destination	Railroad		Vessel Bunkering		On-Highway	
	2001	2002	2001	2002	2001	2002
U.S. Total	**3,039,761**	**3,245,482**	**2,044,049**	**2,078,921**	**33,215,320**	**34,308,885**
PAD District 1 Total	**533,739**	**547,030**	**486,383**	**481,186**	**10,283,551**	**10,373,983**
Subdistrict 1A Total	**29,216**	**18,360**	**42,770**	**60,636**	**1,054,431**	**1,077,477**
Connecticut	5,821	5,123	2,838	2,589	271,949	228,081
Maine	490	360	10,846	9,257	157,265	167,632
Massachusetts	21,683	12,757	23,556	38,573	400,652	398,217
New Hampshire	31	98	365	363	99,664	164,623
Rhode Island	45	–	4,522	9,002	54,843	54,785
Vermont	1,146	23	644	853	70,058	64,139
Subdistrict 1B Total	**144,833**	**160,288**	**152,020**	**131,213**	**3,757,549**	**3,785,263**
Delaware	246	896	1,218	634	56,556	62,154
District of Columbia	4,357	4,680	10	286	27,358	27,049
Maryland	3,718	1,337	24,473	12,020	499,563	501,802
New Jersey	14,262	31,802	86,860	85,235	833,297	833,183
New York	27,311	20,300	15,813	9,567	956,982	988,428
Pennsylvania	94,938	101,273	23,645	23,471	1,383,793	1,372,647
Subdistrict 1C Total	**359,690**	**368,382**	**291,593**	**289,337**	**5,471,571**	**5,511,243**
Florida	112,867	78,074	145,651	153,315	1,284,054	1,344,310
Georgia	74,348	122,300	24,580	23,841	1,406,878	1,313,424
North Carolina	81,961	88,461	13,785	10,739	954,529	976,151
South Carolina	16,796	12,646	15,662	21,123	618,958	634,567
Virginia	64,457	56,308	29,334	30,150	936,738	973,906
West Virginia	9,261	10,593	62,581	50,167	270,414	268,885
PAD District 2 Total	**1,056,240**	**1,227,782**	**318,923**	**313,245**	**10,946,605**	**11,548,458**
Illinois	74,602	117,340	53,791	51,965	1,242,862	1,137,642
Indiana	24,620	88,502	19,097	9,400	976,154	1,354,201
Iowa	15,577	22,255	5,606	3,574	494,746	504,461
Kansas	36,127	72,082	786	1,428	366,378	405,689
Kentucky	100,219	101,007	90,309	62,655	813,305	991,256
Michigan	10,455	26,776	4,172	5,515	898,950	939,587
Minnesota	54,015	58,524	4,435	4,181	629,517	649,613
Missouri	23,745	22,439	64,584	33,602	911,037	946,940
Nebraska	2,525	2,781	–	–	365,060	373,857
North Dakota	47,024	51,746	–	–	149,766	152,301
Ohio	168,639	185,793	3,647	5,690	1,468,979	1,498,239
Oklahoma	355,803	342,948	159	190	947,603	819,929
South Dakota	5,085	4,792	–	–	148,841	191,656
Tennessee	91,736	90,602	62,362	125,340	867,065	903,682
Wisconsin	46,068	40,196	9,975	9,704	666,342	679,405
PAD District 3 Total	**758,918**	**762,793**	**990,369**	**943,474**	**5,743,372**	**5,945,268**
Alabama	47,925	53,202	66,785	65,786	680,321	667,844
Arkansas	84,949	114,146	256	804	580,583	610,663
Louisiana	52,410	46,931	597,624	546,297	599,491	615,227
Mississippi	21,319	16,913	18,540	61,545	503,217	538,079
New Mexico	15,532	8,982	1	–	402,953	419,853
Texas	536,783	522,619	307,163	269,043	2,976,807	3,093,602
PAD District 4 Total	**248,436**	**243,345**	**43**	**23**	**1,569,650**	**1,632,707**
Colorado	44,392	38,399	–	11	510,659	544,627
Idaho	26,753	24,390	43	12	218,109	223,184
Montana	66,659	58,404	–	–	197,340	201,566
Utah	27,016	31,095	–	–	336,377	353,215
Wyoming	83,615	91,057	–	–	307,165	310,115
PAD District 5 Total	**442,429**	**464,532**	**248,331**	**340,993**	**4,672,142**	**4,808,469**
Alaska	6,683	5,831	103,123	102,192	111,433	108,777
Arizona	7,696	15,353	–	–	675,847	642,850
California	281,963	296,168	79,241	68,957	2,627,366	2,703,680
Hawaii	–	–	31,332	92,960	32,754	38,122
Nevada	9,284	9,101	–	3	267,368	286,639
Oregon	81,593	76,495	12,925	15,836	414,373	458,057
Washington	55,208	61,584	21,710	61,045	543,001	570,344

See footnotes at end of table.

Table 4. Sales of Distillate Fuel Oil by Energy Use, 2001 and 2002 (Continued)

(Thousand Gallons)

Destination	Military		Off-Highway		Total	
	2001	2002	2001	2002	2001	2002
U.S. Total	**401,236**	**357,359**	**2,708,228**	**2,357,872**	**59,911,345**	**59,342,633**
PAD District 1 Total	**75,963**	**67,941**	**737,336**	**697,516**	**22,064,610**	**21,521,241**
Subdistrict 1A Total	**14,197**	**10,033**	**68,727**	**68,559**	**4,174,329**	**4,104,730**
Connecticut	4,078	848	12,588	12,556	1,054,955	964,950
Maine	7,255	5,418	11,484	10,655	608,895	627,439
Massachusetts	572	1,062	25,244	25,659	1,639,782	1,615,132
New Hampshire	2,142	2,099	14,408	14,427	398,483	442,812
Rhode Island	19	32	1,909	2,218	245,629	245,119
Vermont	131	575	3,094	3,044	226,584	209,279
Subdistrict 1B Total	**20,113**	**22,447**	**238,594**	**212,210**	**9,181,937**	**8,935,591**
Delaware	922	394	5,534	3,333	145,409	152,445
District of Columbia	3,701	2,268	1,269	2,801	85,908	84,500
Maryland	5,323	7,721	49,680	34,626	1,000,600	921,074
New Jersey	1,578	1,826	51,712	57,178	1,593,068	1,558,504
New York	1,858	2,961	40,319	34,671	3,419,291	3,227,057
Pennsylvania	6,731	7,278	90,080	79,601	2,937,662	2,992,012
Subdistrict 1C Total	**41,654**	**35,461**	**430,015**	**416,748**	**8,708,344**	**8,480,919**
Florida	9,769	5,787	91,777	118,363	2,131,405	2,129,145
Georgia	3,922	3,466	116,489	90,890	1,949,543	1,803,296
North Carolina	7,348	7,263	72,174	52,463	1,570,186	1,468,723
South Carolina	2,227	2,120	50,775	63,815	839,131	831,650
Virginia	18,197	16,573	81,878	75,415	1,684,272	1,601,735
West Virginia	190	252	16,922	15,801	533,806	646,371
PAD District 2 Total	**18,871**	**9,938**	**673,893**	**625,502**	**17,088,096**	**17,494,005**
Illinois	1,102	482	90,609	95,439	1,801,589	1,717,970
Indiana	265	55	42,187	40,565	1,417,745	1,822,384
Iowa	6	2,215	37,477	27,076	853,767	848,303
Kansas	5,812	190	25,357	19,340	664,437	706,659
Kentucky	547	1,090	53,767	43,848	1,305,207	1,456,839
Michigan	1,137	720	62,003	45,223	1,273,553	1,253,403
Minnesota	3,050	246	51,034	56,518	1,070,406	1,065,885
Missouri	2,129	1,354	72,300	80,500	1,275,053	1,266,611
Nebraska	961	7	19,440	9,618	605,448	600,865
North Dakota	517	395	12,011	11,718	376,672	353,146
Ohio	1,392	1,674	66,527	56,137	2,109,541	2,188,616
Oklahoma	67	–	39,281	32,823	1,503,414	1,338,042
South Dakota	53	156	9,292	10,957	265,664	293,314
Tennessee	287	155	40,920	36,880	1,216,177	1,283,365
Wisconsin	1,546	1,200	51,689	58,863	1,349,423	1,298,602
PAD District 3 Total	**106,520**	**84,351**	**507,480**	**461,273**	**10,213,883**	**9,978,484**
Alabama	1,982	1,948	59,657	62,343	992,888	968,910
Arkansas	185	601	61,335	47,707	891,522	938,985
Louisiana	1,307	1,387	74,819	66,575	1,810,770	1,784,857
Mississippi	6,871	7,089	41,213	44,965	724,812	787,383
New Mexico	27	37	17,612	17,251	529,687	535,928
Texas	96,147	73,288	252,844	222,432	5,264,204	4,962,421
PAD District 4 Total	**5,039**	**5,856**	**163,109**	**154,107**	**2,567,572**	**2,577,094**
Colorado	443	396	66,372	62,329	741,824	751,798
Idaho	4,160	4,168	22,858	23,377	388,926	384,189
Montana	137	10	16,343	17,053	361,513	350,767
Utah	298	1,279	28,461	26,492	476,248	493,736
Wyoming	1	2	29,075	24,855	599,060	596,605
PAD District 5 Total	**194,844**	**189,274**	**626,409**	**419,474**	**7,977,185**	**7,771,809**
Alaska	8,106	7,625	15,120	13,349	533,019	492,975
Arizona	–	12	53,194	49,816	923,059	861,550
California	43,399	57,735	433,811	207,088	4,112,688	3,866,990
Hawaii	40,505	12,731	5,627	7,834	235,150	289,323
Nevada	1,440	580	31,937	28,240	410,400	418,256
Oregon	356	2,597	29,405	37,936	745,971	771,490
Washington	101,038	107,995	57,316	75,211	1,016,899	1,071,224

Dashed (-) = No data reported.

Notes: • Totals may not equal sum of components due to independent rounding.

Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 2001-2002. • On-Highway Diesel data are Federal Highway Administration statistics of highway special fuels use.

Table 5. Sales of Residual Fuel Oil by Energy Use, 2001 and 2002

(Thousand Gallons)

Destination	Commercial		Industrial		Oil Company		Electric Power	
	2001	2002	2001	2002	2001	2002	2001	2002
U.S. Total	**647,758**	**572,039**	**1,747,367**	**1,250,634**	**132,177**	**108,673**	**5,647,433**	**3,575,249**
PAD District 1 Total	**603,014**	**532,346**	**1,308,073**	**857,039**	**88,244**	**61,152**	**4,358,323**	**2,996,269**
Subdistrict 1A Total	**86,149**	**88,501**	**474,236**	**319,056**	**235**	**1,172**	**390,256**	**277,957**
Connecticut	9,629	14,465	34,402	15,056	235	339	92,891	85,652
Maine	10,908	17,855	257,644	186,917	–	404	30,236	39,914
Massachusetts	30,464	28,946	125,502	77,637	–	429	233,838	106,304
New Hampshire	4,786	5,558	36,115	22,239	–	–	33,291	46,052
Rhode Island	25,012	16,235	11,900	11,243	–	–	–	34
Vermont	5,350	5,442	8,672	5,963	–	–	–	–
Subdistrict 1B Total	**485,510**	**433,113**	**240,402**	**145,183**	**87,553**	**59,483**	**1,304,358**	**683,071**
Delaware	12,541	9,648	30,062	22,164	48,158	30,073	115,478	33,212
District of Columbia	80	–	–	–	–	–	–	–
Maryland	1,971	2,849	30,774	18,006	683	591	112,948	89,029
New Jersey	22,425	12,574	33,025	11,317	1,958	1,831	364,802	86,559
New York	419,337	391,092	89,324	60,767	678	620	568,147	379,756
Pennsylvania	29,155	16,950	57,216	32,929	36,076	26,368	142,984	94,514
Subdistrict 1C Total	**31,355**	**10,733**	**593,435**	**392,800**	**456**	**498**	**2,663,709**	**2,035,241**
Florida	853	3,199	158,880	69,400	–	–	2,393,838	1,812,239
Georgia	11	–	53,766	81,668	–	–	22,490	3,690
North Carolina	7,434	3,356	197,551	139,573	111	111	–	–
South Carolina	6,612	848	99,018	66,418	111	132	3,319	–
Virginia	16,446	3,330	70,916	30,650	234	254	244,062	219,312
West Virginia	–	–	13,305	5,090	–	–	–	–
PAD District 2 Total	**34,883**	**35,593**	**251,284**	**159,458**	**25,394**	**14,809**	**241,944**	**69,638**
Illinois	3,404	580	17,910	3,908	94	–	127,190	2,298
Indiana	30	30	22,863	7,724	–	–	14,603	–
Iowa	44	93	2,525	2,643	–	–	684	–
Kansas	391	390	18,428	7,762	–	–	24,218	27,597
Kentucky	350	–	3,212	1,135	4,708	3,024	376	–
Michigan	995	2,888	16,400	12,635	4,100	2,829	70,618	36,342
Minnesota	12,729	8,809	35,564	19,704	5,152	4,180	3,152	2,251
Missouri	1,696	1,350	6,272	3,189	–	–	–	73
Nebraska	1,226	–	6,139	5,559	–	–	–	–
North Dakota	2,121	4,251	1,929	170	–	–	195	–
Ohio	41	198	51,565	34,078	3,852	4,253	909	1,077
Oklahoma	–	458	19,229	19,715	664	522	–	–
South Dakota	283	14	5,913	4,662	–	–	–	–
Tennessee	–	–	8,514	5,973	–	–	–	–
Wisconsin	11,572	16,531	34,822	30,600	6,824	–	–	–
PAD District 3 Total	**3,537**	**1,055**	**162,533**	**192,493**	**76**	**382**	**501,938**	**42,318**
Alabama	–	–	46,418	84,306	–	–	–	–
Arkansas	–	–	11,815	2,090	–	–	46,476	2,637
Louisiana	–	13	57,823	59,248	–	–	82,056	39,184
Mississippi	2,887	–	11,364	5,441	–	–	355,718	497
New Mexico	–	–	4,904	5,896	76	–	–	–
Texas	651	1,042	30,209	35,512	–	382	17,688	–
PAD District 4 Total	**1,059**	**–**	**5,610**	**10,461**	**–**	**5,405**	**–**	**–**
Colorado	–	–	238	–	–	–	–	–
Idaho	–	–	1,314	3,608	–	–	–	–
Montana	–	–	145	51	–	1,716	–	–
Utah	1,059	–	–	397	–	3,312	–	–
Wyoming	–	–	3,913	6,405	–	377	–	–
PAD District 5 Total	**5,264**	**3,044**	**19,868**	**31,184**	**18,463**	**26,925**	**545,228**	**467,024**
Alaska	–	–	1,065	–	–	–	–	–
Arizona	–	–	1,591	1,313	–	–	12,928	–
California	1,602	–	934	2,177	18,463	5,832	18,919	624
Hawaii	313	3	464	281	–	19,823	444,656	463,233
Nevada	–	–	–	292	–	–	68,725	2,588
Oregon	2,938	2,887	7,793	20,116	–	1,252	–	578
Washington	411	154	8,020	7,005	–	17	–	–

See footnotes at end of table.

Table 5. Sales of Residual Fuel Oil by Energy Use, 2001 and 2002 (Continued)

(Thousand Gallons)

Destination	Vessel Bunkering		Military		All Other		Total	
	2001	2002	2001	2002	2001	2002	2001	2002
U.S. Total	**5,409,378**	**4,847,704**	**20,117**	**3,882**	**5,149**	**3,435**	**13,609,379**	**10,361,615**
PAD District 1 Total	**1,699,958**	**1,735,512**	**12,673**	**1,175**	**4,832**	**2,489**	**8,075,116**	**6,185,982**
Subdistrict 1A Total	**46,830**	**51,445**	**2,207**	**254**	**223**	**264**	**1,000,134**	**738,649**
Connecticut	82	–	512	49	223	264	137,975	115,825
Maine	30,004	37,476	1,694	8	–	–	330,486	282,574
Massachusetts	16,743	13,969	–	197	–	–	406,548	227,484
New Hampshire	–	–	–	–	–	–	74,191	73,849
Rhode Island	–	–	–	–	–	–	36,912	27,512
Vermont	–	–	–	–	–	–	14,022	11,405
Subdistrict 1B Total	**1,038,444**	**1,036,387**	**8,947**	**396**	**–**	**–**	**3,165,215**	**2,357,633**
Delaware	75,287	52,593	731	–	–	–	282,257	147,690
District of Columbia	–	–	20	–	–	–	100	–
Maryland	30,940	31,279	4,770	–	–	–	182,087	141,755
New Jersey	605,678	650,531	420	238	–	–	1,028,309	763,051
New York	184,966	172,427	1,996	–	–	–	1,264,449	1,004,662
Pennsylvania	141,573	129,557	1,010	157	–	–	408,013	300,475
Subdistrict 1C Total	**614,684**	**647,680**	**1,519**	**524**	**4,609**	**2,225**	**3,909,767**	**3,089,701**
Florida	494,830	470,387	–	–	4,609	2,225	3,053,010	2,357,450
Georgia	37,895	80,874	–	–	–	–	114,161	166,232
North Carolina	6,090	35,958	–	–	–	–	211,185	178,998
South Carolina	16,293	23,241	–	–	–	–	125,353	90,640
Virginia	59,576	37,220	1,519	524	–	–	392,753	291,290
West Virginia	–	–	–	–	–	–	13,305	5,090
PAD District 2 Total	**30,002**	**31,419**	**7,080**	**2,707**	**203**	**167**	**590,789**	**313,792**
Illinois	813	965	6,995	2,378	–	11	156,406	10,139
Indiana	9,963	11,078	–	–	–	–	47,460	18,832
Iowa	–	–	–	–	7	58	3,260	2,794
Kansas	–	–	85	329	33	9	43,155	36,089
Kentucky	39	70	–	–	–	–	8,685	4,230
Michigan	4,124	2,130	–	–	40	28	96,277	56,854
Minnesota	10,440	11,788	–	–	–	3	67,036	46,736
Missouri	243	459	–	–	17	–	8,228	5,071
Nebraska	–	–	–	–	13	12	7,378	5,571
North Dakota	–	–	–	–	–	–	4,245	4,422
Ohio	3,974	4,617	–	–	76	46	60,417	44,269
Oklahoma	–	–	–	–	17	–	19,910	20,696
South Dakota	–	–	–	–	–	–	6,197	4,676
Tennessee	246	126	–	–	–	–	8,760	6,099
Wisconsin	160	185	–	–	–	–	53,378	47,316
PAD District 3 Total	**1,652,423**	**1,344,372**	**–**	**–**	**92**	**25**	**2,320,598**	**1,580,644**
Alabama	42,025	95,474	–	–	–	–	88,443	179,779
Arkansas	–	–	–	–	–	–	58,291	4,727
Louisiana	597,129	468,698	–	–	–	–	737,008	567,143
Mississippi	75,239	55,179	–	–	–	–	445,207	61,117
New Mexico	–	–	–	–	45	25	5,025	5,920
Texas	938,030	725,022	–	–	46	–	986,624	761,958
PAD District 4 Total	**–**	**–**	**–**	**–**	**23**	**19**	**6,692**	**15,885**
Colorado	–	–	–	–	–	–	238	–
Idaho	–	–	–	–	–	–	1,314	3,608
Montana	–	–	–	–	–	–	145	1,767
Utah	–	–	–	–	–	–	1,059	3,709
Wyoming	–	–	–	–	23	19	3,936	6,801
PAD District 5 Total	**2,026,996**	**1,736,400**	**364**	**–**	**–**	**735**	**2,616,183**	**2,265,312**
Alaska	3,149	2,279	–	–	–	–	4,214	2,279
Arizona	–	–	–	–	–	–	14,519	1,313
California	1,434,934	1,376,071	196	–	–	735	1,475,048	1,385,438
Hawaii	154,769	64,765	168	–	–	–	600,371	548,105
Nevada	–	–	–	–	–	–	68,725	2,881
Oregon	68,571	54,972	–	–	–	–	79,302	79,805
Washington	365,574	238,314	–	–	–	–	374,004	245,491

Dashed (-) = No data reported.
Notes: • Totals may not equal sum of components due to independent rounding.
Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 2001-2002.

Table 6. Sales of Kerosene by Energy Use, 2001 and 2002

(Thousand Gallons)

Destination	Residential		Commercial		Industrial	
	2001	2002	2001	2002	2001	2002
U.S. Total	**704,305**	**443,919**	**232,608**	**118,125**	**141,317**	**77,508**
PAD District 1 Total	**582,448**	**365,321**	**194,860**	**94,565**	**56,572**	**33,189**
Subdistrict 1A Total	**116,507**	**71,521**	**30,483**	**17,163**	**6,689**	**1,782**
Connecticut	6,742	3,870	9,684	5,546	2,775	312
Maine	70,328	42,072	6,402	4,721	688	452
Massachusetts	8,269	5,342	6,572	2,459	1,280	244
New Hampshire	14,819	10,992	2,238	1,458	330	300
Rhode Island	2,890	1,421	4,117	2,308	10	5
Vermont	13,459	7,824	1,470	670	1,605	470
Subdistrict 1B Total	**263,226**	**173,882**	**138,781**	**63,384**	**37,188**	**24,709**
Delaware	4,745	2,749	5,339	187	181	11
District of Columbia	4	–	8,705	12	–	–
Maryland	19,761	12,803	14,563	7,194	2,762	1,677
New Jersey	17,203	5,986	52,410	18,983	19,645	12,000
New York	100,395	68,977	36,704	20,717	6,279	8,503
Pennsylvania	121,118	83,366	21,060	16,290	8,321	2,519
Subdistrict 1C Total	**202,715**	**119,918**	**25,596**	**14,018**	**12,695**	**6,698**
Florida	3,833	2,665	1,043	655	4,756	38
Georgia	7,605	3,394	2,571	1,974	940	493
North Carolina	84,907	51,351	8,079	3,978	943	2,416
South Carolina	20,896	12,221	1,680	1,022	3,929	2,458
Virginia	70,602	39,275	9,564	3,688	1,679	1,047
West Virginia	14,873	11,012	2,660	2,701	448	245
PAD District 2 Total	**85,756**	**58,983**	**23,163**	**14,436**	**17,116**	**9,205**
Illinois	5,040	5,981	2,715	1,560	2,087	1,530
Indiana	15,025	11,916	1,828	1,299	1,016	805
Iowa	1,538	932	545	268	197	117
Kansas	603	402	282	229	142	106
Kentucky	11,382	7,118	2,437	1,342	2,183	1,256
Michigan	9,341	6,740	1,460	1,189	1,085	553
Minnesota	7,886	682	1,479	915	117	42
Missouri	3,279	2,137	983	775	455	192
Nebraska	438	127	109	86	31	3
North Dakota	175	87	105	53	16	2
Ohio	18,555	13,808	6,153	3,892	4,319	3,243
Oklahoma	277	641	334	208	1,347	373
South Dakota	153	115	54	82	10	6
Tennessee	10,365	7,046	3,778	1,977	3,752	840
Wisconsin	1,699	1,250	899	560	360	139
PAD District 3 Total	**7,703**	**3,508**	**6,760**	**4,278**	**63,955**	**33,641**
Alabama	1,627	917	1,077	690	431	181
Arkansas	1,014	820	392	172	85	45
Louisiana	1,120	551	674	308	46,033	30,111
Mississippi	1,325	385	426	338	1,111	738
New Mexico	197	108	680	355	136	64
Texas	2,420	728	3,511	2,416	16,159	2,501
PAD District 4 Total	**1,198**	**653**	**980**	**665**	**519**	**263**
Colorado	748	377	431	401	181	60
Idaho	214	111	194	56	15	2
Montana	26	21	1	33	6	3
Utah	131	97	329	148	237	192
Wyoming	79	46	25	26	81	5
PAD District 5 Total	**27,199**	**15,455**	**6,845**	**4,182**	**3,156**	**1,210**
Alaska	670	1	22	9	1	–
Arizona	36	24	135	71	54	23
California	14,701	9,087	2,647	1,147	1,134	308
Hawaii	–	–	3	1	4	3
Nevada	295	289	86	30	16	6
Oregon	7,254	4,602	3,049	1,952	1,392	759
Washington	4,243	1,451	903	972	555	110

See footnotes at end of table.

Table 6. Sales of Kerosene by Energy Use, 2001 and 2002 (Continued)

(Thousand Gallons)

Destination	Farm		All Other		Total	
	2001	2002	2001	2002	2001	2002
U.S. Total	**27,162**	**19,390**	**3,535**	**5,372**	**1,108,926**	**664,314**
PAD District 1 Total	**8,366**	**4,026**	**1,776**	**3,362**	**844,021**	**500,462**
Subdistrict 1A Total	**1,240**	**617**	**495**	**503**	**155,414**	**91,585**
Connecticut	18	5	135	155	19,354	9,887
Maine	638	264	65	23	78,120	47,531
Massachusetts	6	9	71	135	16,198	8,188
New Hampshire	313	206	163	129	17,863	13,085
Rhode Island	–	–	–	19	7,017	3,753
Vermont	266	133	62	42	16,862	9,141
Subdistrict 1B Total	**4,251**	**1,822**	**900**	**1,523**	**444,346**	**265,320**
Delaware	37	20	–	–	10,301	2,968
District of Columbia	–	–	–	–	8,709	12
Maryland	327	194	27	17	37,440	21,885
New Jersey	16	2	6	26	89,280	36,997
New York	827	670	475	831	144,679	99,698
Pennsylvania	3,045	937	392	649	153,936	103,761
Subdistrict 1C Total	**2,875**	**1,587**	**380**	**1,335**	**244,261**	**143,557**
Florida	311	6	8	23	9,952	3,387
Georgia	42	336	6	6	11,164	6,205
North Carolina	484	227	87	487	94,499	58,459
South Carolina	1,217	472	71	431	27,792	16,604
Virginia	781	518	194	384	82,820	44,911
West Virginia	39	29	15	4	18,034	13,991
PAD District 2 Total	**12,502**	**13,238**	**1,137**	**1,010**	**139,675**	**96,872**
Illinois	824	316	110	203	10,777	9,591
Indiana	810	6,354	226	64	18,905	20,437
Iowa	1,536	862	90	29	3,905	2,208
Kansas	673	425	22	133	1,721	1,295
Kentucky	874	473	35	65	16,911	10,254
Michigan	787	234	26	22	12,699	8,739
Minnesota	384	192	108	86	9,975	1,917
Missouri	131	86	138	17	4,986	3,207
Nebraska	257	86	33	3	869	305
North Dakota	33	23	17	6	345	170
Ohio	4,151	3,083	89	44	33,268	24,071
Oklahoma	136	82	53	7	2,148	1,311
South Dakota	81	53	20	1	317	257
Tennessee	138	71	119	62	18,152	9,995
Wisconsin	1,688	896	52	270	4,698	3,114
PAD District 3 Total	**3,848**	**612**	**338**	**349**	**82,605**	**42,388**
Alabama	19	8	–	–	3,154	1,796
Arkansas	690	154	5	15	2,186	1,206
Louisiana	17	6	41	1	47,885	30,977
Mississippi	26	16	1	–	2,889	1,477
New Mexico	102	61	67	140	1,182	728
Texas	2,994	367	224	193	25,308	6,205
PAD District 4 Total	**596**	**525**	**29**	**460**	**3,321**	**2,565**
Colorado	39	108	16	273	1,414	1,220
Idaho	33	17	8	5	464	192
Montana	492	380	–	–	524	437
Utah	30	20	3	8	730	465
Wyoming	1	1	2	173	188	251
PAD District 5 Total	**1,850**	**989**	**255**	**192**	**39,304**	**22,027**
Alaska	–	–	–	–	693	11
Arizona	–	1	5	1	230	119
California	481	285	152	28	19,115	10,855
Hawaii	–	–	–	–	7	5
Nevada	9	1	–	–	407	326
Oregon	933	475	38	63	12,666	7,851
Washington	427	227	59	100	6,187	2,861

Dashed (-) = No data reported.

Notes: • Totals may not equal sum of components due to independent rounding.

Sources: • Kerosene data are based on data from the Energy Information Administration's Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 2001-2002 and "Petroleum Supply Annual," Volume 1, 2001-2002, (DOE/EIA-0340(01)/1 - (02)/1).

Table 7. Sales for Residential Use: Distillate Fuel Oil and Kerosene, 2002
(Thousand Gallons)

Destination	Distillate Fuel Oil			Kerosene
	No. 1	No. 2	Total	
U.S. Total	**111,154**	**6,265,498**	**6,376,652**	**443,919**
PAD District 1 Total	**4,403**	**5,544,947**	**5,549,350**	**365,321**
Subdistrict 1A Total	**2,120**	**2,224,459**	**2,226,579**	**71,521**
Connecticut	113	565,571	565,684	3,870
Maine	1,248	290,294	291,542	42,072
Massachusetts	14	953,221	953,235	5,342
New Hampshire	745	179,117	179,862	10,992
Rhode Island	–	144,952	144,952	1,421
Vermont	–	91,304	91,304	7,824
Subdistrict 1B Total	**652**	**2,944,993**	**2,945,645**	**173,882**
Delaware	–	42,754	42,754	2,749
District of Columbia	–	15,199	15,199	–
Maryland	2	190,079	190,081	12,803
New Jersey	–	390,944	390,944	5,986
New York	424	1,420,515	1,420,939	68,977
Pennsylvania	226	885,502	885,728	83,366
Subdistrict 1C Total	**1,631**	**375,495**	**377,126**	**119,918**
Florida	–	4,042	4,042	2,665
Georgia	–	2,376	2,376	3,394
North Carolina	–	121,287	121,287	51,351
South Carolina	49	16,642	16,691	12,221
Virginia	1,126	209,847	210,973	39,275
West Virginia	456	21,301	21,757	11,012
PAD District 2 Total	**65,401**	**528,708**	**594,109**	**58,983**
Illinois	1,488	9,916	11,404	5,981
Indiana	4,894	31,513	36,407	11,916
Iowa	3,525	21,540	25,065	932
Kansas	408	1,141	1,549	402
Kentucky	395	17,111	17,506	7,118
Michigan	8,396	87,174	95,570	6,740
Minnesota	17,969	77,747	95,716	682
Missouri	1,580	10,953	12,533	2,137
Nebraska	876	2,063	2,939	127
North Dakota	3,016	15,318	18,334	87
Ohio	7,190	129,977	137,167	13,808
Oklahoma	46	39	85	641
South Dakota	3,006	8,541	11,547	115
Tennessee	451	4,507	4,958	7,046
Wisconsin	12,158	111,167	123,325	1,250
PAD District 3 Total	**29**	**2,812**	**2,841**	**3,508**
Alabama	2	1,576	1,578	917
Arkansas	1	369	370	820
Louisiana	–	377	377	551
Mississippi	–	46	46	385
New Mexico	26	276	302	108
Texas	–	167	167	728
PAD District 4 Total	**5,234**	**21,126**	**26,360**	**653**
Colorado	124	942	1,066	377
Idaho	3,121	12,019	15,140	111
Montana	1,732	3,558	5,290	21
Utah	155	3,409	3,564	97
Wyoming	102	1,199	1,301	46
PAD District 5 Total	**36,088**	**167,905**	**203,993**	**15,455**
Alaska	29,494	34,902	64,396	1
Arizona	20	386	406	24
California	81	6,257	6,338	9,087
Hawaii	–	13	13	–
Nevada	278	8,702	8,980	289
Oregon	3,082	38,866	41,948	4,602
Washington	3,134	78,780	81,914	1,451

Dashed (-) = No data reported.

Notes: • Totals may not equal sum of components due to independent rounding.

Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 2002. • Kerosene data are also based on data from Energy Information Administration's "Petroleum Supply Annual," Volume 1, 2002, (DOE/EIA-0340(02)/1).

Table 8. Sales for Commercial Use: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 2002
(Thousand Gallons)

Destination	Distillate Fuel Oil							Residual Fuel Oil	Kerosene
	No. 1 Distillate	No. 2 Distillate				No. 4 Fuel	Total Distillate		
		No. 2 Fuel Oil	Low Sulfur Diesel	High Sulfur Diesel	No. 2 Total				
U.S. Total	**66,278**	**1,432,145**	**1,091,396**	**511,828**	**3,035,369**	**191,740**	**3,293,387**	**572,039**	**118,125**
PAD District 1 Total	**3,936**	**1,265,635**	**408,768**	**272,448**	**1,946,851**	**191,285**	**2,142,071**	**532,346**	**94,565**
Subdistrict 1A Total	**359**	**456,989**	**47,354**	**10,880**	**515,223**	**25,091**	**540,673**	**88,501**	**17,163**
Connecticut	94	97,422	22,130	1,279	120,831	3,719	124,644	14,465	5,546
Maine	70	111,583	2,996	1,860	116,439	1,049	117,558	17,855	4,721
Massachusetts	–	140,222	9,883	1,991	152,096	13,553	165,649	28,946	2,459
New Hampshire	27	56,799	6,238	496	63,533	3,267	66,826	5,558	1,458
Rhode Island	168	23,360	2,607	644	26,610	1,840	28,618	16,235	2,308
Vermont	–	27,604	3,501	4,609	35,715	1,663	37,377	5,442	670
Subdistrict 1B Total	**2,064**	**715,227**	**209,708**	**119,326**	**1,044,261**	**164,674**	**1,210,999**	**433,113**	**63,384**
Delaware	–	8,880	2,892	2,476	14,248	406	14,654	9,648	187
District of Columbia	1	10,665	646	196	11,508	1,269	12,778	–	12
Maryland	52	50,880	21,744	34,314	106,938	951	107,941	2,849	7,194
New Jersey	25	84,197	7,683	8,716	100,596	3,644	104,265	12,574	18,983
New York	816	418,049	59,622	15,780	493,451	155,087	649,354	391,092	20,717
Pennsylvania	1,170	142,557	117,120	57,843	317,520	3,317	322,007	16,950	16,290
Subdistrict 1C Total	**1,512**	**93,418**	**151,705**	**142,243**	**387,366**	**1,521**	**390,399**	**10,733**	**14,018**
Florida	–	3,886	67,671	38,756	110,313	615	110,928	3,199	655
Georgia	42	2,589	25,580	16,134	44,302	–	44,344	–	1,974
North Carolina	6	32,887	22,449	30,507	85,843	188	86,037	3,356	3,978
South Carolina	–	5,040	15,537	8,323	28,900	–	28,900	848	1,022
Virginia	1,238	45,053	15,254	43,989	104,296	596	106,131	3,330	3,688
West Virginia	226	3,962	5,215	4,533	13,711	122	14,060	–	2,701
PAD District 2 Total	**26,294**	**121,810**	**297,960**	**125,065**	**544,835**	**13**	**571,142**	**35,593**	**14,436**
Illinois	5,371	5,651	35,381	24,463	65,495	–	70,866	580	1,560
Indiana	1,896	16,306	31,547	9,809	57,661	–	59,558	30	1,299
Iowa	1,539	8,558	7,572	1,931	18,061	–	19,601	93	268
Kansas	1,961	854	22,386	2,256	25,495	–	27,456	390	229
Kentucky	80	3,626	22,484	19,927	46,037	–	46,117	–	1,342
Michigan	647	8,167	25,033	7,890	41,089	6	41,743	2,888	1,189
Minnesota	3,622	13,445	11,691	6,694	31,830	7	35,459	8,809	915
Missouri	674	8,886	21,870	11,530	42,286	–	42,960	1,350	775
Nebraska	1,190	383	2,259	159	2,801	–	3,991	–	86
North Dakota	947	2,343	2,134	697	5,174	–	6,121	4,251	53
Ohio	2,970	29,573	43,236	21,675	94,484	–	97,454	198	3,892
Oklahoma	1	32	13,865	1,210	15,107	–	15,108	458	208
South Dakota	911	3,112	3,133	602	6,847	–	7,757	14	82
Tennessee	79	1,596	32,124	10,871	44,592	–	44,671	–	1,977
Wisconsin	4,406	19,279	23,244	5,351	47,874	–	52,280	16,531	560
PAD District 3 Total	**546**	**1,506**	**137,396**	**55,213**	**194,115**	**410**	**195,072**	**1,055**	**4,278**
Alabama	–	617	27,239	5,560	33,416	410	33,827	–	690
Arkansas	207	10	11,656	7,411	19,077	–	19,284	–	172
Louisiana	138	70	9,747	6,440	16,257	–	16,395	13	308
Mississippi	–	5	6,442	4,877	11,324	–	11,324	–	338
New Mexico	167	363	10,283	3,386	14,031	–	14,199	–	355
Texas	34	442	72,030	27,538	100,010	–	100,044	1,042	2,416
PAD District 4 Total	**5,799**	**6,963**	**52,350**	**12,812**	**72,125**	**–**	**77,924**	**–**	**665**
Colorado	1,590	831	18,287	757	19,875	–	21,465	–	401
Idaho	646	2,340	6,932	4,271	13,543	–	14,188	–	56
Montana	551	2,793	2,122	470	5,384	–	5,935	–	33
Utah	958	738	15,855	6,559	23,153	–	24,110	–	148
Wyoming	2,055	261	9,154	755	10,170	–	12,225	–	26
PAD District 5 Total	**29,704**	**36,231**	**194,923**	**46,290**	**277,443**	**31**	**307,178**	**3,044**	**4,182**
Alaska	25,483	11,700	2,612	13,689	28,001	28	53,512	–	9
Arizona	69	7	35,777	85	35,869	–	35,937	–	71
California	24	4,017	88,626	1,940	94,583	4	94,610	–	1,147
Hawaii	–	67	8,746	4,584	13,397	–	13,397	3	1
Nevada	886	2,279	12,092	182	14,553	–	15,440	–	30
Oregon	1,068	4,753	23,737	14,810	43,299	–	44,367	2,887	1,952
Washington	2,174	13,409	23,332	11,000	47,741	–	49,915	154	972

Dashed (-) = No data reported.

Notes: • Totals may not equal sum of components due to independent rounding.

Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 2002. • Kerosene data are also based on data from Energy Information Administration's "Petroleum Supply Annual," Volume 1, 2002, (DOE/EIA-0340(02)/1).

Table 9. Sales for Industrial Use: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 2002
(Thousand Gallons)

Destination	Distillate Fuel Oil							Residual Fuel Oil	Kerosene
	No. 1 Distillate	No. 2 Distillate				No. 4 Fuel	Total Distillate		
		No. 2 Fuel Oil	Low Sulfur Diesel	High Sulfur Diesel	No. 2 Total				
U.S. Total	**49,712**	**322,541**	**829,028**	**1,150,692**	**2,302,261**	**32,409**	**2,384,383**	**1,250,634**	**77,508**
PAD District 1 Total	**1,046**	**199,862**	**89,802**	**476,970**	**766,634**	**27,477**	**795,157**	**857,039**	**33,189**
Subdistrict 1A Total	**443**	**39,820**	**6,679**	**3,339**	**49,838**	**10,957**	**61,238**	**319,056**	**1,782**
Connecticut	–	9,589	1,358	177	11,124	4,969	16,094	15,056	312
Maine	29	12,209	1,924	758	14,891	1,657	16,577	186,917	452
Massachusetts	14	6,520	1,236	1,612	9,368	1,712	11,094	77,637	244
New Hampshire	400	4,666	1,604	40	6,310	621	7,331	22,239	300
Rhode Island	–	2,923	162	–	3,086	1,101	4,186	11,243	5
Vermont	–	3,913	394	752	5,059	898	5,956	5,963	470
Subdistrict 1B Total	**6**	**87,600**	**22,863**	**83,284**	**193,747**	**13,836**	**207,590**	**145,183**	**24,709**
Delaware	–	1,043	1,552	213	2,809	746	3,554	22,164	11
District of Columbia	–	–	–	–	–	192	192	–	–
Maryland	–	13,754	3,050	9,205	26,009	369	26,378	18,006	1,677
New Jersey	–	17,455	929	1,269	19,652	5,559	25,212	11,317	12,000
New York	–	29,530	4,773	6,729	41,031	4,459	45,491	60,767	8,503
Pennsylvania	6	25,819	12,560	65,867	104,246	2,511	106,763	32,929	2,519
Subdistrict 1C Total	**597**	**72,442**	**60,260**	**390,347**	**523,049**	**2,683**	**526,329**	**392,800**	**6,698**
Florida	44	3,457	17,732	33,132	54,322	782	55,149	69,400	38
Georgia	–	9,320	23,043	41,275	73,638	6	73,644	81,668	493
North Carolina	–	13,592	10,666	25,455	49,713	727	50,440	139,573	2,416
South Carolina	–	6,313	1,127	7,678	15,118	387	15,506	66,418	2,458
Virginia	32	21,150	4,516	62,142	87,807	762	88,602	30,650	1,047
West Virginia	521	18,610	3,176	220,665	242,450	19	242,990	5,090	245
PAD District 2 Total	**18,958**	**110,818**	**204,321**	**362,451**	**677,590**	**3,285**	**699,833**	**159,458**	**9,205**
Illinois	4,231	8,712	22,790	33,723	65,225	20	69,476	3,908	1,530
Indiana	4,499	16,468	32,376	77,306	126,150	643	131,292	7,724	805
Iowa	527	1,916	6,515	1,286	9,716	–	10,243	2,643	117
Kansas	385	480	8,976	3,457	12,913	3	13,301	7,762	106
Kentucky	75	5,928	19,638	120,134	145,700	438	146,214	1,135	1,256
Michigan	1,407	5,255	6,483	12,590	24,328	–	25,735	12,635	553
Minnesota	1,943	20,204	16,526	1,706	38,435	–	40,378	19,704	42
Missouri	1,840	6,042	19,904	21,286	47,232	–	49,072	3,189	192
Nebraska	458	–	1,282	4,026	5,307	–	5,766	5,559	3
North Dakota	733	164	2,837	6,266	9,268	–	10,000	170	2
Ohio	326	21,137	25,424	36,848	83,409	1,711	85,446	34,078	3,243
Oklahoma	49	2,941	5,156	12,228	20,325	–	20,373	19,715	373
South Dakota	438	561	7,828	175	8,565	–	9,003	4,662	6
Tennessee	–	3,937	6,956	16,316	27,210	269	27,478	5,973	840
Wisconsin	2,046	17,074	21,629	15,105	53,807	202	56,056	30,600	139
PAD District 3 Total	**1,976**	**4,749**	**174,990**	**170,226**	**349,965**	**651**	**352,592**	**192,493**	**33,641**
Alabama	–	205	21,174	35,807	57,186	651	57,837	84,306	181
Arkansas	–	135	15,199	10,766	26,100	–	26,100	2,090	45
Louisiana	–	2,916	20,034	51,613	74,564	–	74,564	59,248	30,111
Mississippi	–	–	11,378	20,876	32,254	–	32,254	5,441	738
New Mexico	1,976	1,362	30,893	1,930	34,185	–	36,161	5,896	64
Texas	–	131	76,312	49,234	125,677	–	125,677	35,512	2,501
PAD District 4 Total	**8,820**	**6,498**	**193,882**	**28,208**	**228,588**	**–**	**237,408**	**10,461**	**263**
Colorado	1,525	197	27,197	1,889	29,282	–	30,808	–	60
Idaho	1,285	4,883	6,143	6,782	17,809	–	19,094	3,608	2
Montana	851	167	12,752	8,822	21,741	–	22,592	51	3
Utah	2,056	1,248	25,028	10,618	36,894	–	38,951	397	192
Wyoming	3,102	3	122,762	97	122,862	–	125,964	6,405	5
PAD District 5 Total	**18,912**	**615**	**166,033**	**112,837**	**279,484**	**996**	**299,393**	**31,184**	**1,210**
Alaska	18,649	388	8,098	21,851	30,337	–	48,987	–	–
Arizona	64	–	32,950	40,716	73,666	51	73,780	1,313	23
California	–	152	50,490	1,896	52,537	–	52,537	2,177	308
Hawaii	–	64	1,477	942	2,483	–	2,483	281	3
Nevada	121	–	44,708	14,926	59,634	946	60,700	292	6
Oregon	60	10	13,405	22,120	35,535	–	35,596	20,116	759
Washington	18	–	14,905	10,386	25,292	–	25,310	7,005	110

Dashed (-) = No data reported.

Notes: • Totals may not equal sum of components due to independent rounding.

Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 2002. • Kerosene data are also based on data from Energy Information Administration's "Petroleum Supply Annual," Volume 1, 2002, (DOE/EIA-0340(02)/1).

Table 10. Sales for Farm Use: Distillate Fuel Oil and Kerosene; Sales for Electric Power and Oil Company Uses: Distillate Fuel Oil and Residual Fuel Oil, 2002
(Thousand Gallons)

Destination	Farm				Electric Power		Oil Company Use	
	Diesel	Other Distillate	Total Distillate	Kerosene	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil
U.S. Total	**3,342,918**	**75,534**	**3,418,452**	**19,390**	**750,557**	**3,575,249**	**770,682**	**108,673**
PAD District 1 Total	**450,508**	**44,836**	**495,343**	**4,026**	**345,651**	**2,996,269**	**26,012**	**61,152**
Subdistrict 1A Total	**17,083**	**15,171**	**32,254**	**617**	**8,881**	**277,957**	**40**	**1,172**
Connecticut	2,580	5,380	7,960	5	1,367	85,652	6	339
Maine	3,850	4,238	8,088	264	320	39,914	34	404
Massachusetts	4,830	651	5,482	9	3,405	106,304	–	429
New Hampshire	1,946	3,051	4,997	206	2,185	46,052	–	–
Rhode Island	106	30	136	–	1,191	34	–	–
Vermont	3,771	1,820	5,592	133	414	–	–	–
Subdistrict 1B Total	**89,399**	**22,000**	**111,400**	**1,822**	**129,282**	**683,071**	**19,255**	**59,483**
Delaware	8,320	112	8,432	20	4,456	33,212	11,183	30,073
District of Columbia	–	–	–	–	19,246	–	–	–
Maryland	15,124	191	15,315	194	23,845	89,029	8	591
New Jersey	9,630	519	10,149	2	18,415	86,559	296	1,831
New York	30,170	14,479	44,649	670	10,697	379,756	1	620
Pennsylvania	26,155	6,700	32,855	937	52,622	94,514	7,767	26,368
Subdistrict 1C Total	**344,025**	**7,665**	**351,690**	**1,587**	**207,488**	**2,035,241**	**6,716**	**498**
Florida	132,915	720	133,634	6	125,324	1,812,239	219	–
Georgia	118,586	–	118,586	336	10,335	3,690	90	–
North Carolina	39,574	4,598	44,171	227	31,432	–	276	111
South Carolina	19,526	1,347	20,873	472	14,807	–	603	132
Virginia	31,988	983	32,970	518	10,281	219,312	425	254
West Virginia	1,438	17	1,455	29	15,308	–	5,104	–
PAD District 2 Total	**1,686,421**	**26,412**	**1,712,833**	**13,238**	**143,793**	**69,638**	**47,371**	**14,809**
Illinois	149,199	4,788	153,987	316	8,840	2,298	528	–
Indiana	84,560	2,769	87,329	6,354	15,010	–	66	–
Iowa	226,629	4,289	230,919	862	2,894	–	–	–
Kansas	151,364	231	151,596	425	5,184	27,597	8,844	–
Kentucky	36,061	299	36,361	473	10,319	–	467	3,024
Michigan	47,166	1,371	48,537	234	23,974	36,342	25	2,829
Minnesota	115,933	3,585	119,518	192	5,730	2,251	2	4,180
Missouri	70,103	43	70,146	86	6,910	73	155	–
Nebraska	200,856	366	201,222	86	683	–	–	–
North Dakota	95,704	1,369	97,073	23	1,620	–	3,838	–
Ohio	91,378	778	92,156	3,083	27,126	1,077	1,734	4,253
Oklahoma	64,083	533	64,616	82	10,348	–	31,621	522
South Dakota	55,672	1,062	56,734	53	701	–	12	–
Tennessee	31,352	61	31,413	71	18,185	–	–	–
Wisconsin	266,359	4,865	271,224	896	6,269	–	80	–
PAD District 3 Total	**536,855**	**850**	**537,705**	**612**	**73,061**	**42,318**	**620,054**	**382**
Alabama	21,183	112	21,295	8	3,005	–	245	–
Arkansas	112,038	501	112,539	154	5,344	2,637	1,427	–
Louisiana	70,195	–	70,195	6	8,390	39,184	338,520	–
Mississippi	64,802	220	65,022	16	1,317	497	8,830	–
New Mexico	15,727	18	15,745	61	2,785	–	20,613	–
Texas	252,909	–	252,909	367	52,221	–	250,419	382
PAD District 4 Total	**167,511**	**3,241**	**170,752**	**525**	**6,923**	–	**21,690**	**5,405**
Colorado	43,937	2,409	46,346	108	1,868	–	4,482	–
Idaho	60,346	271	60,617	17	19	–	–	–
Montana	38,181	468	38,649	380	–	–	1,268	1,716
Utah	12,323	39	12,362	20	1,896	–	771	3,312
Wyoming	12,724	53	12,778	1	3,140	–	15,169	377
PAD District 5 Total	**501,623**	**197**	**501,820**	**989**	**181,128**	**467,024**	**55,555**	**26,925**
Alaska	16	–	16	–	49,676	–	38,615	–
Arizona	38,030	–	38,030	1	4,988	–	378	–
California	360,335	9	360,343	285	6,915	624	12,618	5,832
Hawaii	9,526	–	9,526	–	112,254	463,233	4	19,823
Nevada	5,473	1	5,475	1	2,001	2,588	1,099	–
Oregon	51,608	186	51,794	475	4,807	578	2,057	1,252
Washington	36,635	–	36,635	227	488	–	785	17

Dashed (-) = No data reported.

Notes: • Totals may not equal sum of components due to independent rounding.

Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 2002. • Kerosene data are also based on data from Energy Information Administration's "Petroleum Supply Annual," Volume 1, 2002, (DOE/EIA-0340(02)/1).

Table 11. Sales for Transportation Use: Distillate Fuel Oil and Residual Fuel Oil, 2002
(Thousand Gallons)

Destination	Railroad Use	Vessel Bunkering		On-Highway Diesel	Total Transportation Use	
	Distillate Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil
U.S. Total	**3,245,482**	**2,078,921**	**4,847,704**	**34,308,885**	**39,633,288**	**4,847,704**
PAD District 1 Total	**547,030**	**481,186**	**1,735,512**	**10,373,983**	**11,402,199**	**1,735,512**
Subdistrict 1A Total	**18,360**	**60,636**	**51,445**	**1,077,477**	**1,156,473**	**51,445**
Connecticut	5,123	2,589	–	228,081	235,793	–
Maine	360	9,257	37,476	167,632	177,248	37,476
Massachusetts	12,757	38,573	13,969	398,217	449,547	13,969
New Hampshire	98	363	–	164,623	165,084	–
Rhode Island	–	9,002	–	54,785	63,787	–
Vermont	23	853	–	64,139	65,016	–
Subdistrict 1B Total	**160,288**	**131,213**	**1,036,387**	**3,785,263**	**4,076,764**	**1,036,387**
Delaware	896	634	52,593	62,154	63,684	52,593
District of Columbia	4,680	286	–	27,049	32,015	–
Maryland	1,337	12,020	31,279	501,802	515,159	31,279
New Jersey	31,802	85,235	650,531	833,183	950,220	650,531
New York	20,300	9,567	172,427	988,428	1,018,295	172,427
Pennsylvania	101,273	23,471	129,557	1,372,647	1,497,390	129,557
Subdistrict 1C Total	**368,382**	**289,337**	**647,680**	**5,511,243**	**6,168,962**	**647,680**
Florida	78,074	153,315	470,387	1,344,310	1,575,700	470,387
Georgia	122,300	23,841	80,874	1,313,424	1,459,566	80,874
North Carolina	88,461	10,739	35,958	976,151	1,075,351	35,958
South Carolina	12,646	21,123	23,241	634,567	668,336	23,241
Virginia	56,308	30,150	37,220	973,906	1,060,364	37,220
West Virginia	10,593	50,167	–	268,885	329,645	–
PAD District 2 Total	**1,227,782**	**313,245**	**31,419**	**11,548,458**	**13,089,484**	**31,419**
Illinois	117,340	51,965	965	1,137,642	1,306,947	965
Indiana	88,502	9,400	11,078	1,354,201	1,452,103	11,078
Iowa	22,255	3,574	–	504,461	530,290	–
Kansas	72,082	1,428	–	405,689	479,199	–
Kentucky	101,007	62,655	70	991,256	1,154,918	70
Michigan	26,776	5,515	2,130	939,587	971,877	2,130
Minnesota	58,524	4,181	11,788	649,613	712,318	11,788
Missouri	22,439	33,602	459	946,940	1,002,981	459
Nebraska	2,781	–	–	373,857	376,638	–
North Dakota	51,746	–	–	152,301	204,047	–
Ohio	185,793	5,690	4,617	1,498,239	1,689,721	4,617
Oklahoma	342,948	190	–	819,929	1,163,067	–
South Dakota	4,792	–	–	191,656	196,448	–
Tennessee	90,602	125,340	126	903,682	1,119,624	126
Wisconsin	40,196	9,704	185	679,405	729,305	185
PAD District 3 Total	**762,793**	**943,474**	**1,344,372**	**5,945,268**	**7,651,535**	**1,344,372**
Alabama	53,202	65,786	95,474	667,844	786,832	95,474
Arkansas	114,146	804	–	610,663	725,613	–
Louisiana	46,931	546,297	468,698	615,227	1,208,455	468,698
Mississippi	16,913	61,545	55,179	538,079	616,537	55,179
New Mexico	8,982	–	–	419,853	428,835	–
Texas	522,619	269,043	725,022	3,093,602	3,885,264	725,022
PAD District 4 Total	**243,345**	**23**	**–**	**1,632,707**	**1,876,075**	**–**
Colorado	38,399	11	–	544,627	583,037	–
Idaho	24,390	12	–	223,184	247,586	–
Montana	58,404	–	–	201,566	259,970	–
Utah	31,095	–	–	353,215	384,310	–
Wyoming	91,057	–	–	310,115	401,172	–
PAD District 5 Total	**464,532**	**340,993**	**1,736,400**	**4,808,469**	**5,613,995**	**1,736,400**
Alaska	5,831	102,192	2,279	108,777	216,799	2,279
Arizona	15,353	–	–	642,850	658,203	–
California	296,168	68,957	1,376,071	2,703,680	3,068,805	1,376,071
Hawaii	–	92,960	64,765	38,122	131,082	64,765
Nevada	9,101	3	–	286,639	295,744	–
Oregon	76,495	15,836	54,972	458,057	550,389	54,972
Washington	61,584	61,045	238,314	570,344	692,973	238,314

Dashed (-) = No data reported.

Notes: • Totals may not equal sum of components due to independent rounding.

Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 2002. • On-Highway Diesel data are Federal Highway Administration statistics of highway special fuels use.

Table 12. Sales for Military, Off-Highway, and All Other Uses: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 2002
(Thousand Gallons)

Destination	Military				Off-Highway Distillate Fuel Oil			All Other	
	Diesel	Other Distillate	Total Distillate	Residual Fuel Oil	Construction	Other	Total	Residual Fuel Oil	Kerosene
U.S. Total	**327,804**	**29,555**	**357,359**	**3,882**	**1,934,793**	**423,079**	**2,357,872**	**3,435**	**5,372**
PAD District 1 Total	**47,394**	**20,548**	**67,941**	**1,175**	**572,878**	**124,638**	**697,516**	**2,489**	**3,362**
Subdistrict 1A Total	**4,297**	**5,736**	**10,033**	**254**	**58,137**	**10,422**	**68,559**	**264**	**503**
Connecticut	280	567	848	49	12,148	407	12,556	264	155
Maine	2,341	3,077	5,418	8	9,376	1,279	10,655	–	23
Massachusetts	568	494	1,062	197	22,338	3,321	25,659	–	135
New Hampshire	755	1,344	2,099	–	10,507	3,920	14,427	–	129
Rhode Island	30	2	32	–	2,217	1	2,218	–	19
Vermont	323	253	575	–	1,550	1,494	3,044	–	42
Subdistrict 1B Total	**12,404**	**10,043**	**22,447**	**396**	**193,176**	**19,034**	**212,210**	–	**1,523**
Delaware	207	187	394	–	3,129	204	3,333	–	–
District of Columbia	1,516	752	2,268	–	2,801	–	2,801	–	–
Maryland	5,010	2,712	7,721	–	32,344	2,281	34,626	–	17
New Jersey	1,067	759	1,826	238	47,693	9,486	57,178	–	26
New York	1,140	1,820	2,961	–	31,365	3,306	34,671	–	831
Pennsylvania	3,464	3,813	7,278	157	75,844	3,757	79,601	–	649
Subdistrict 1C Total	**30,692**	**4,769**	**35,461**	**524**	**321,565**	**95,182**	**416,748**	**2,225**	**1,335**
Florida	5,787	–	5,787	–	107,920	10,443	118,363	2,225	23
Georgia	3,451	15	3,466	–	64,465	26,425	90,890	–	6
North Carolina	3,459	3,805	7,263	–	37,823	14,641	52,463	–	487
South Carolina	1,509	611	2,120	–	39,002	24,813	63,815	–	431
Virginia	16,326	248	16,573	524	62,033	13,382	75,415	–	384
West Virginia	161	91	252	–	10,323	5,478	15,801	–	4
PAD District 2 Total	**8,314**	**1,624**	**9,938**	**2,707**	**549,048**	**76,455**	**625,502**	**167**	**1,010**
Illinois	481	1	482	2,378	91,117	4,322	95,439	11	203
Indiana	55	–	55	–	35,762	4,803	40,565	–	64
Iowa	2,168	47	2,215	–	24,720	2,357	27,076	58	29
Kansas	190	1	190	329	17,016	2,324	19,340	9	133
Kentucky	864	226	1,090	–	38,550	5,298	43,848	–	65
Michigan	720	–	720	–	41,175	4,048	45,223	28	22
Minnesota	246	–	246	–	39,253	17,265	56,518	3	86
Missouri	1,122	232	1,354	–	72,230	8,270	80,500	–	17
Nebraska	7	–	7	–	7,404	2,214	9,618	12	3
North Dakota	395	–	395	–	10,965	752	11,718	–	6
Ohio	1,073	601	1,674	–	51,354	4,783	56,137	46	44
Oklahoma	–	–	–	–	30,244	2,579	32,823	–	7
South Dakota	153	3	156	–	9,262	1,694	10,957	–	1
Tennessee	136	19	155	–	28,642	8,238	36,880	–	62
Wisconsin	705	495	1,200	–	51,354	7,508	58,863	–	270
PAD District 3 Total	**84,351**	–	**84,351**	–	**345,505**	**115,768**	**461,273**	**25**	**349**
Alabama	1,948	–	1,948	–	32,107	30,236	62,343	–	–
Arkansas	601	–	601	–	20,844	26,864	47,707	–	15
Louisiana	1,387	–	1,387	–	51,950	14,625	66,575	–	1
Mississippi	7,089	–	7,089	–	28,986	15,979	44,965	–	–
New Mexico	37	–	37	–	14,147	3,104	17,251	25	140
Texas	73,288	–	73,288	–	197,471	24,961	222,432	–	193
PAD District 4 Total	**5,847**	**8**	**5,856**	–	**130,619**	**23,488**	**154,107**	**19**	**460**
Colorado	388	8	396	–	61,573	756	62,329	–	273
Idaho	4,168	–	4,168	–	11,892	11,486	23,377	–	5
Montana	10	–	10	–	9,920	7,132	17,053	–	–
Utah	1,279	–	1,279	–	24,332	2,160	26,492	–	8
Wyoming	2	–	2	–	22,902	1,953	24,855	19	173
PAD District 5 Total	**181,899**	**7,375**	**189,274**	–	**336,743**	**82,731**	**419,474**	**735**	**192**
Alaska	7,625	–	7,625	–	10,710	2,639	13,349	–	–
Arizona	12	–	12	–	46,496	3,320	49,816	–	1
California	57,735	–	57,735	–	178,366	28,722	207,088	735	28
Hawaii	12,731	–	12,731	–	7,834	–	7,834	–	–
Nevada	580	–	580	–	27,429	811	28,240	–	–
Oregon	2,577	20	2,597	–	21,500	16,436	37,936	–	63
Washington	100,640	7,355	107,995	–	44,409	30,802	75,211	–	100

Dashed (-) = No data reported.

Notes: • Totals may not equal sum of components due to independent rounding.

Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 2002. • Kerosene data are also based on data from Energy Information Administration's "Petroleum Supply Annual," Volume 1, 2002, (DOE/EIA-0340(02)/1).

Adjusted Sales of Fuel Oil and Kerosene in 2002

Tables 13 through 24 contain estimates of distillate fuel oil that have been adjusted at the PAD district level to equal published EIA volume estimates of petroleum products supplied in the U.S. Marketplace. The kerosene and residual fuel oil sales estimates have been adjusted at the nation level. The products supplied estimates can be found in the 1998 through 2002 issues of the *Petroleum Supply Annual, Volume 1 (PSA)*. In addition, electric power generation data and on-highway diesel data are used in lieu of adjusted survey results. See "Technical Note 3" in Appendix A for further explanation of data adjustments.

NOTE: The 2001 adjusted numbers have been revised since they were first published in the Fuel *Oil and Kerosene Sales 2001*. The revisions to the data were made to include new distillate and residual volumes for "Electric Power" and a new residual fuel oil product supplied number. In 2001, the Electric Power division began to revise their data collection process to include nonutility information. When we originally published the *Fuel Oil and Kerosene Sales 2001*, the "Electric Power" information was still being collected and verified. The residual fuel oil product supplied number was revised to include new export and import information. The 2002 PSA explains the revision within the Front Matter section in more detail. This information can be found on the EIA's WEB page or use the url:

http://www.eia.doe.gov/pub/oil_gas/petroleum/data_publications/petroleum_supply_annual/psa_volume1/current/pdf/volume1_front_matter.pdf.

Table 13. Adjusted Sales of Distillate Fuel Oil by Energy Use in the United States: 1998-2002
(Thousand Gallons)

Energy Use	Distillate Fuel Oil				
	1998	1999	2000	2001	2002
U.S. Total	**53,063,934**	**54,758,718**	**57,217,230**	**58,971,486**	**57,884,652**
Residential	5,633,409	5,847,762	6,123,946	R6,275,678	5,928,071
Commercial	3,044,495	3,003,653	3,324,687	R3,512,488	3,065,777
Industrial	2,258,248	2,170,075	2,117,531	R2,329,029	2,238,458
Oil Company	565,174	576,997	671,170	R822,797	825,464
Farm	3,033,405	2,899,222	3,122,416	R3,434,936	3,179,309
Electric Power	962,921	912,807	1,139,740	R1,455,075	633,714
Railroad	2,833,276	2,789,926	3,026,147	R2,958,815	3,080,831
Vessel Bunkering	2,125,568	2,064,590	2,041,433	R2,099,011	2,069,514
On-Highway Diesel	30,150,191	32,062,447	33,129,664	33,215,320	34,308,885
Military	277,688	288,926	227,998	R347,220	330,542
Off-Highway Diesel	2,179,560	2,142,313	2,292,498	R2,521,118	2,224,086

R = Revised.

Notes: • See Technical Note 3 for further explanations on 2001 revised data and adjustments. • Distillate fuel oil data in the Adjusted Sales tables (13-24) are adjusted at the PAD District level. • Totals may not equal sum of components due to independent rounding.

Note: Distillate fuel oil data in the Adjusted Sales tables (13-24) are adjusted at the PAD District level. See Technical Note 3 for further explanation.

Sources: • Energy Information Administration's Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 1998-2002 and "Petroleum Supply Annual," Volume 1, 1998-2002, (DOE/EIA-0340(98)/1 - (02)/1). • See Technical Note 3 for further explanation of Electric Power. • On-Highway Diesel data are Federal Highway Administration statistics of highway special fuels use.

Table 14. Adjusted Sales of Residual Fuel Oil by Energy Use in the United States: 1998-2002
(Thousand Gallons)

Energy Use	Residual Fuel Oil				
	1998	1999	2000	2001	2002
U.S. Total	**13,599,558**	**12,725,916**	**13,966,134**	**R13,508,460**	**10,724,994**
Commercial	590,388	619,429	641,810	R520,335	560,137
Industrial	1,484,331	1,630,313	1,531,336	R1,403,638	1,224,614
Oil Company	105,233	118,898	148,311	R106,176	106,412
Electric Power	6,748,744	4,729,990	5,418,215	R7,112,731	4,079,824
Vessel Bunkering	4,640,153	5,598,630	6,192,294	R4,345,284	4,746,843
Military	27,779	24,647	27,462	R16,160	3,801
All Other	2,930	4,009	6,706	R4,136	3,363

R = Revised.

Notes: • See "Technical Note 3" for further explanations on 2001 revised data and adjustments. • Residual fuel oil data in the Adjusted Sales tables (13-24) are adjusted at the national level. • Totals may not equal sum of components due to independent rounding.

Sources: • Energy Information Administration's Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 1998-2002 and "Petroleum Supply Annual," Volume 1, 1998-2002, (DOE/EIA-0340(98)/1 - (02)/1). • See Technical Note 3 for further explanation of Electric Power.

Table 15. Adjusted Sales of Kerosene by Energy Use in the United States: 1998-2002
(Thousand Gallons)

Energy Use	Kerosene				
	1998	1999	2000	2001	2002
U.S. Total	**1,196,580**	**1,118,124**	**1,036,014**	**1,108,926**	**664,314**
Residential	802,348	823,436	700,532	704,305	443,919
Commercial	230,743	199,577	219,633	232,608	118,125
Industrial	123,246	58,279	86,844	141,317	77,508
Farm	26,823	26,312	23,084	27,162	19,390
All Other	13,420	10,521	5,921	3,535	5,372

Notes: • See Technical Note 3 for further explanation on adjustments. • Kerosene data in the Adjusted Sales tables (13-24) are adjusted at the national level. • Totals may not equal sum of components due to independent rounding.

Sources: • Energy Information Administration's Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 1998-2002 and "Petroleum Supply Annual," Volume 1, 1998-2002, (DOE/EIA-0340(98)/1 - (02)/1).

Table 16. Adjusted Sales of Distillate Fuel Oil by Energy Use, 2001 and 2002

(Thousand Gallons)

Destination	Residential		Commercial		Industrial	
	R2001	2002	R2001	2002	R2001	2002
U.S. Total	**6,275,678**	**5,928,071**	**3,512,488**	**3,065,777**	**2,329,029**	**2,238,458**
PAD District 1 Total	**5,479,535**	**5,196,873**	**2,227,698**	**2,006,014**	**761,542**	**744,651**
Subdistrict 1A Total	**2,148,315**	**2,085,154**	**547,583**	**506,331**	**78,240**	**57,348**
Connecticut	550,854	529,753	137,823	116,727	23,495	15,072
Maine	277,402	273,024	101,901	110,091	14,628	15,524
Massachusetts	902,769	892,689	170,800	155,128	24,325	10,389
New Hampshire	183,148	168,438	70,688	62,582	7,311	6,865
Rhode Island	144,259	135,745	25,509	26,800	2,984	3,920
Vermont	89,882	85,505	40,862	35,003	5,497	5,578
Subdistrict 1B Total	**2,949,473**	**2,758,547**	**1,199,106**	**1,134,080**	**233,685**	**194,404**
Delaware	40,658	40,038	12,283	13,724	3,366	3,328
District of Columbia	8,062	14,234	21,925	11,966	249	180
Maryland	194,281	178,007	101,764	101,085	27,585	24,702
New Jersey	383,446	366,112	137,438	97,642	38,195	23,610
New York	1,478,178	1,330,685	682,961	608,109	43,764	42,601
Pennsylvania	844,849	829,470	242,735	301,554	120,526	99,982
Subdistrict 1C Total	**381,747**	**353,172**	**481,008**	**365,602**	**449,617**	**492,898**
Florida	4,922	3,785	122,968	103,882	70,710	51,646
Georgia	2,462	2,225	65,251	41,527	72,564	68,966
North Carolina	126,275	113,584	125,365	80,572	77,699	47,236
South Carolina	16,983	15,631	31,147	27,064	30,508	14,521
Virginia	210,044	197,573	119,836	99,390	94,495	82,974
West Virginia	21,060	20,375	16,441	13,167	103,641	227,556
PAD District 2 Total	**619,264**	**532,602**	**669,866**	**512,013**	**698,692**	**627,381**
Illinois	13,581	10,224	77,140	63,529	75,494	62,283
Indiana	33,104	32,638	66,967	53,392	132,673	117,699
Iowa	17,621	22,470	23,107	17,571	16,462	9,183
Kansas	1,889	1,388	34,277	24,614	18,763	11,924
Kentucky	19,392	15,694	47,706	41,343	135,025	131,077
Michigan	112,784	85,676	64,798	37,421	33,326	23,070
Minnesota	97,208	85,807	48,172	31,788	29,438	36,198
Missouri	17,174	11,235	66,217	38,513	40,270	43,992
Nebraska	3,451	2,635	10,330	3,578	4,020	5,169
North Dakota	20,891	16,436	11,116	5,487	12,625	8,965
Ohio	117,469	122,967	80,130	87,365	79,968	76,600
Oklahoma	108	76	28,581	13,544	20,188	18,264
South Dakota	15,564	10,351	10,677	6,954	7,357	8,071
Tennessee	7,058	4,445	39,751	40,046	34,784	24,633
Wisconsin	141,970	110,558	60,896	46,868	58,300	50,253
PAD District 3 Total	**2,579**	**3,170**	**299,198**	**217,649**	**414,085**	**393,400**
Alabama	1,923	1,761	41,632	37,742	64,342	64,531
Arkansas	41	414	29,512	21,516	17,776	29,120
Louisiana	73	420	13,766	18,293	81,692	83,193
Mississippi	270	51	16,493	12,634	46,953	35,987
New Mexico	227	337	17,402	15,842	36,995	40,346
Texas	46	187	180,392	111,623	166,328	140,223
PAD District 4 Total	**27,013**	**24,700**	**88,321**	**73,016**	**206,489**	**222,456**
Colorado	2,144	999	24,156	20,113	23,310	28,868
Idaho	13,959	14,186	14,194	13,295	23,390	17,892
Montana	6,494	4,957	7,514	5,561	18,355	21,169
Utah	3,468	3,340	26,588	22,592	29,457	36,498
Wyoming	947	1,218	15,869	11,455	111,976	118,031
PAD District 5 Total	**147,287**	**170,727**	**227,405**	**257,084**	**248,221**	**250,569**
Alaska	50,763	53,894	46,925	44,785	26,654	40,998
Arizona	181	339	21,316	30,077	62,340	61,748
California	8,169	5,305	79,000	79,182	50,022	43,970
Hawaii	8	11	3,794	11,212	2,427	2,078
Nevada	6,081	7,515	9,339	12,922	45,552	50,801
Oregon	29,305	35,107	33,519	37,132	33,748	29,791
Washington	52,779	68,556	33,512	41,775	27,478	21,182

See footnotes at end of table.

Table 16. Adjusted Sales of Distillate Fuel Oil by Energy Use, 2001 and 2002 (Continued)

(Thousand Gallons)

Destination	Oil Company		Farm		Electric Power	
	R2001	2002	R2001	2002	R2001	2002
U.S. Total	**822,797**	**825,464**	**3,434,936**	**3,179,309**	**1,455,075**	**633,714**
PAD District 1 Total	**21,494**	**24,359**	**488,899**	**463,881**	**543,269**	**291,842**
Subdistrict 1A Total	**187**	**38**	**27,394**	**30,205**	**19,088**	**7,499**
Connecticut	8	6	6,061	7,454	2,279	1,154
Maine	–	32	6,757	7,574	41	270
Massachusetts	179	–	3,439	5,134	10,074	2,875
New Hampshire	–	–	4,705	4,680	2,383	1,845
Rhode Island	–	–	57	127	2,706	1,005
Vermont	–	–	6,375	5,237	1,604	349
Subdistrict 1B Total	**13,986**	**18,032**	**107,779**	**104,324**	**141,492**	**109,156**
Delaware	8,681	10,473	6,841	7,896	5,816	3,762
District of Columbia	–	–	–	–	18,847	16,250
Maryland	58	7	19,642	14,342	61,359	20,133
New Jersey	172	277	11,043	9,505	5,869	15,548
New York	88	1	38,527	41,813	18,261	9,032
Pennsylvania	4,986	7,274	31,726	30,768	31,339	44,430
Subdistrict 1C Total	**7,321**	**6,290**	**353,727**	**329,352**	**382,689**	**175,188**
Florida	199	205	118,029	125,146	166,746	105,814
Georgia	921	84	135,701	111,054	34,686	8,726
North Carolina	1	259	43,049	41,366	52,671	26,539
South Carolina	–	564	20,756	19,547	32,649	12,502
Virginia	207	398	33,622	30,876	77,582	8,681
West Virginia	5,993	4,780	2,569	1,362	18,356	12,925
PAD District 2 Total	**52,636**	**42,467**	**1,796,630**	**1,535,508**	**245,714**	**121,408**
Illinois	375	473	154,876	138,046	17,711	7,464
Indiana	66	59	90,104	78,288	34,328	12,673
Iowa	–	–	235,674	207,012	7,321	2,443
Kansas	6,297	7,928	157,967	135,901	11,086	4,377
Kentucky	997	419	37,281	32,596	6,561	8,712
Michigan	26	22	53,287	43,512	34,605	20,242
Minnesota	–	2	138,671	107,145	15,251	4,838
Missouri	74	139	62,975	62,884	15,249	5,835
Nebraska	–	–	196,295	180,390	3,068	577
North Dakota	5,940	3,441	114,784	87,024	1,718	1,368
Ohio	1,920	1,554	84,228	82,616	38,696	22,903
Oklahoma	36,860	28,348	63,924	57,927	11,335	8,737
South Dakota	72	11	67,370	50,861	1,193	592
Tennessee	9	–	35,739	28,161	39,170	15,354
Wisconsin	–	72	303,454	243,145	8,421	5,293
PAD District 3 Total	**690,085**	**691,818**	**629,330**	**599,938**	**394,062**	**61,688**
Alabama	78	274	25,685	23,760	23,533	2,537
Arkansas	2,307	1,592	136,532	125,564	5,147	4,512
Louisiana	360,158	377,699	77,164	78,319	31,083	7,084
Mississippi	5,216	9,853	83,714	72,548	3,144	1,112
New Mexico	29,853	22,999	20,993	17,567	3,489	2,351
Texas	292,472	279,402	285,244	282,180	327,665	44,091
PAD District 4 Total	**20,475**	**20,324**	**159,803**	**159,998**	**23,021**	**5,846**
Colorado	4,305	4,199	41,583	43,427	14,553	1,577
Idaho	–	–	52,948	56,799	485	16
Montana	2,879	1,189	36,964	36,215	538	–
Utah	246	722	13,600	11,584	2,459	1,601
Wyoming	13,036	14,214	14,709	11,973	4,986	2,651
PAD District 5 Total	**38,106**	**46,495**	**360,274**	**419,985**	**249,010**	**152,931**
Alaska	27,149	32,318	8	13	61,383	41,943
Arizona	115	316	23,532	31,829	23,626	4,212
California	7,963	10,560	262,592	301,580	24,752	5,839
Hawaii	60	3	6,994	7,973	113,266	94,779
Nevada	26	919	3,968	4,582	1,020	1,689
Oregon	219	1,721	30,875	43,348	12,917	4,059
Washington	2,574	657	32,305	30,661	12,045	412

See footnotes at end of table.

Table 16. Adjusted Sales of Distillate Fuel Oil by Energy Use, 2001 and 2002 (Continued)

(Thousand Gallons)

Destination	Railroad		Vessel Bunkering		On-Highway	
	R2001	2002	R2001	2002	2001	2002
U.S. Total	**2,958,815**	**3,080,831**	**2,099,011**	**2,069,514**	**33,215,320**	**34,308,885**
PAD District 1 Total	**507,365**	**512,284**	**462,349**	**450,623**	**10,283,551**	**10,373,983**
Subdistrict 1A Total	**27,773**	**17,194**	**40,657**	**56,785**	**1,054,431**	**1,077,477**
Connecticut	5,533	4,797	2,697	2,425	271,949	228,081
Maine	466	337	10,310	8,669	157,265	167,632
Massachusetts	20,612	11,947	22,392	36,123	400,652	398,217
New Hampshire	30	91	347	340	99,664	164,623
Rhode Island	43	–	4,298	8,430	54,843	54,785
Vermont	1,089	22	612	799	70,058	64,139
Subdistrict 1B Total	**137,676**	**150,107**	**144,508**	**122,879**	**3,757,549**	**3,785,263**
Delaware	234	839	1,158	594	56,556	62,154
District of Columbia	4,142	4,383	10	268	27,358	27,049
Maryland	3,534	1,252	23,264	11,257	499,563	501,802
New Jersey	13,557	29,782	82,568	79,821	833,297	833,183
New York	25,962	19,011	15,032	8,959	956,982	988,428
Pennsylvania	90,247	94,840	22,477	21,980	1,383,793	1,372,647
Subdistrict 1C Total	**341,917**	**344,984**	**277,184**	**270,959**	**5,471,571**	**5,511,243**
Florida	107,290	73,115	138,453	143,577	1,284,054	1,344,310
Georgia	70,674	114,532	23,365	22,327	1,406,878	1,313,424
North Carolina	77,911	82,842	13,104	10,057	954,529	976,151
South Carolina	15,967	11,843	14,889	19,782	618,958	634,567
Virginia	61,272	52,732	27,885	28,235	936,738	973,906
West Virginia	8,803	9,920	59,489	46,981	270,414	268,885
PAD District 2 Total	**1,053,615**	**1,100,673**	**318,130**	**280,815**	**10,946,605**	**11,548,458**
Illinois	74,416	105,192	53,658	46,586	1,242,862	1,137,642
Indiana	24,559	79,340	19,050	8,427	976,154	1,354,201
Iowa	15,538	19,951	5,592	3,204	494,746	504,461
Kansas	36,037	64,619	784	1,280	366,378	405,689
Kentucky	99,969	90,550	90,084	56,169	813,305	991,256
Michigan	10,429	24,004	4,161	4,944	898,950	939,587
Minnesota	53,881	52,465	4,424	3,748	629,517	649,613
Missouri	23,686	20,116	64,423	30,123	911,037	946,940
Nebraska	2,519	2,493	–	–	365,060	373,857
North Dakota	46,907	46,389	–	–	149,766	152,301
Ohio	168,220	166,558	3,638	5,101	1,468,979	1,498,239
Oklahoma	354,919	307,443	159	170	947,603	819,929
South Dakota	5,073	4,296	–	–	148,841	191,656
Tennessee	91,508	81,222	62,207	112,364	867,065	903,682
Wisconsin	45,954	36,035	9,950	8,699	666,342	679,405
PAD District 3 Total	**886,021**	**851,077**	**1,156,237**	**1,052,670**	**5,743,372**	**5,945,268**
Alabama	55,951	59,360	77,971	73,400	680,321	667,844
Arkansas	99,176	127,357	298	897	580,583	610,663
Louisiana	61,188	52,363	697,715	609,524	599,491	615,227
Mississippi	24,889	18,870	21,645	68,668	503,217	538,079
New Mexico	18,134	10,021	1	–	402,953	419,853
Texas	626,684	583,106	358,607	300,181	2,976,807	3,093,602
PAD District 4 Total	**222,735**	**228,020**	**38**	**21**	**1,569,650**	**1,632,707**
Colorado	39,800	35,981	–	10	510,659	544,627
Idaho	23,985	22,854	38	11	218,109	223,184
Montana	59,763	54,726	–	–	197,340	201,566
Utah	24,222	29,136	–	–	336,377	353,215
Wyoming	74,965	85,323	–	–	307,165	310,115
PAD District 5 Total	**289,078**	**388,778**	**162,257**	**285,385**	**4,672,142**	**4,808,469**
Alaska	4,367	4,880	67,380	85,527	111,433	108,777
Arizona	5,029	12,850	–	–	675,847	642,850
California	184,232	247,870	51,775	57,712	2,627,366	2,703,680
Hawaii	–	–	20,472	77,800	32,754	38,122
Nevada	6,066	7,617	–	3	267,368	286,639
Oregon	53,312	64,021	8,445	13,254	414,373	458,057
Washington	36,072	51,541	14,185	51,090	543,001	570,344

See footnotes at end of table.

Table 16. Adjusted Sales of Distillate Fuel Oil by Energy Use, 2001 and 2002 (Continued)

(Thousand Gallons)

Destination	Military		Off-Highway		Total	
	R2001	2002	R2001	2002	R2001	2002
U.S. Total	**347,220**	**330,542**	**2,521,118**	**2,224,086**	**58,971,486**	**57,884,652**
PAD District 1 Total	**72,210**	**63,626**	**700,901**	**653,212**	**21,548,814**	**20,781,348**
Subdistrict 1A Total	**13,495**	**9,396**	**65,331**	**64,204**	**4,022,494**	**3,911,630**
Connecticut	3,876	794	11,966	11,758	1,016,542	918,021
Maine	6,896	5,074	10,917	9,978	586,584	598,204
Massachusetts	544	994	23,997	24,030	1,579,782	1,537,524
New Hampshire	2,037	1,965	13,696	13,511	384,008	424,941
Rhode Island	18	30	1,814	2,077	236,532	232,920
Vermont	125	539	2,941	2,851	219,046	200,022
Subdistrict 1B Total	**19,119**	**21,021**	**226,804**	**198,731**	**8,931,178**	**8,596,544**
Delaware	876	369	5,260	3,121	141,728	146,299
District of Columbia	3,518	2,124	1,206	2,623	85,317	79,077
Maryland	5,060	7,231	47,225	32,426	983,336	892,246
New Jersey	1,500	1,710	49,156	53,547	1,556,241	1,510,737
New York	1,766	2,772	38,326	32,469	3,299,849	3,083,880
Pennsylvania	6,399	6,815	85,629	74,545	2,864,707	2,884,305
Subdistrict 1C Total	**39,595**	**33,209**	**408,766**	**390,277**	**8,595,142**	**8,273,173**
Florida	9,286	5,419	87,242	110,845	2,109,900	2,067,745
Georgia	3,728	3,246	110,733	85,117	1,926,965	1,771,229
North Carolina	6,985	6,802	68,607	49,131	1,546,197	1,434,539
South Carolina	2,117	1,985	48,266	59,762	832,239	817,767
Virginia	17,298	15,521	77,832	70,625	1,656,809	1,560,909
West Virginia	180	236	16,086	14,797	523,033	620,984
PAD District 2 Total	**18,824**	**8,909**	**672,219**	**560,746**	**17,092,194**	**16,870,980**
Illinois	1,099	432	90,384	85,558	1,801,596	1,657,429
Indiana	265	49	42,082	36,365	1,419,352	1,773,132
Iowa	6	1,986	37,384	24,273	853,452	812,555
Kansas	5,798	171	25,294	17,338	664,570	675,230
Kentucky	546	977	53,633	39,308	1,304,501	1,408,100
Michigan	1,134	645	61,848	40,541	1,275,348	1,219,664
Minnesota	3,043	220	50,907	50,667	1,070,512	1,022,491
Missouri	2,124	1,213	72,120	72,166	1,275,349	1,233,156
Nebraska	958	6	19,391	8,622	605,092	577,328
North Dakota	516	354	11,981	10,505	376,244	332,269
Ohio	1,388	1,501	66,362	50,325	2,110,998	2,115,729
Oklahoma	67	–	39,184	29,425	1,502,926	1,283,864
South Dakota	52	140	9,269	9,822	265,468	282,753
Tennessee	286	139	40,819	33,062	1,218,396	1,243,109
Wisconsin	1,542	1,075	51,560	52,769	1,348,389	1,234,171
PAD District 3 Total	**124,360**	**94,113**	**592,473**	**514,660**	**10,931,802**	**10,425,450**
Alabama	2,314	2,174	69,648	69,559	1,043,397	1,002,939
Arkansas	216	671	71,608	53,229	943,196	975,534
Louisiana	1,526	1,547	87,350	74,280	2,011,205	1,917,950
Mississippi	8,022	7,909	48,116	50,169	761,679	815,880
New Mexico	31	41	20,561	19,248	550,640	548,606
Texas	112,250	81,771	295,190	248,176	5,621,685	5,164,541
PAD District 4 Total	**4,518**	**5,487**	**146,235**	**144,401**	**2,468,298**	**2,516,976**
Colorado	397	371	59,506	58,404	720,414	738,577
Idaho	3,730	3,905	20,493	21,905	371,339	374,047
Montana	123	9	14,652	15,979	344,622	341,370
Utah	267	1,199	25,517	24,824	462,202	484,710
Wyoming	1	2	26,067	23,290	569,722	578,271
PAD District 5 Total	**127,309**	**158,408**	**409,289**	**351,067**	**6,930,378**	**7,289,898**
Alaska	5,297	6,382	9,879	11,172	411,237	430,689
Arizona	–	10	34,756	41,692	846,743	825,922
California	28,356	48,320	283,448	173,317	3,607,676	3,677,333
Hawaii	26,465	10,655	3,677	6,556	209,918	249,189
Nevada	941	485	20,867	23,635	361,229	396,807
Oregon	233	2,174	19,213	31,750	636,159	720,412
Washington	66,017	90,383	37,450	62,946	857,418	989,546

Dashed (-) = No data reported. R = Revised.

Notes: • See "Technical Note 3" for further explanations on 2001 revised data. • Totals may not equal sum of components due to independent rounding.

Sources: • Energy Information Administration's Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 2001-2002 and "Petroleum Supply Annual," Volume 1, 2001-2002, (DOE/EIA-0340(01)/1 - (02)/1). • See "Technical Note 3" in for further explanation of Electric Power. • On-Highway Diesel data are Federal Highway Administration statistics of highway special fuels use.

Table 17. Adjusted Sales of Residual Fuel Oil by Energy Use, 2001 and 2002

(Thousand Gallons)

Destination	Commercial		Industrial		Oil Company		Electric Power	
	R2001	2002	R2001	2002	R2001	2002	R2001	2002
U.S. Total	**520,335**	**560,137**	**1,403,638**	**1,224,614**	**106,176**	**106,412**	**7,112,731**	**4,079,824**
PAD District 1 Total	**484,393**	**521,271**	**1,050,758**	**839,208**	**70,885**	**59,880**	**5,489,145**	**3,419,132**
Subdistrict 1A Total	**69,202**	**86,660**	**380,947**	**312,418**	**189**	**1,148**	**491,513**	**317,185**
Connecticut	7,735	14,164	27,635	14,743	189	332	116,993	97,741
Maine	8,762	17,484	206,962	183,028	–	395	38,081	45,547
Massachusetts	24,471	28,344	100,814	76,022	–	420	294,511	121,307
New Hampshire	3,844	5,442	29,010	21,776	–	–	41,929	52,551
Rhode Island	20,092	15,897	9,559	11,009	–	–	–	39
Vermont	4,298	5,329	6,966	5,839	–	–	–	–
Subdistrict 1B Total	**390,004**	**424,102**	**193,112**	**142,163**	**70,330**	**58,245**	**1,642,791**	**779,473**
Delaware	10,074	9,447	24,149	21,703	38,684	29,447	145,440	37,900
District of Columbia	64	–	–	–	–	–	–	–
Maryland	1,584	2,790	24,721	17,631	549	579	142,254	101,594
New Jersey	18,014	12,312	26,528	11,082	1,573	1,793	459,455	98,775
New York	336,848	382,955	71,753	59,503	545	607	715,560	433,351
Pennsylvania	23,420	16,597	45,961	32,244	28,979	25,819	180,083	107,853
Subdistrict 1C Total	**25,187**	**10,509**	**476,699**	**384,627**	**367**	**487**	**3,354,841**	**2,322,475**
Florida	685	3,132	127,626	67,956	–	–	3,014,949	2,068,001
Georgia	9	–	43,190	79,969	–	–	28,325	4,211
North Carolina	5,972	3,286	158,690	136,669	89	109	–	–
South Carolina	5,311	830	79,540	65,036	89	130	4,180	–
Virginia	13,211	3,261	56,966	30,013	188	249	307,387	250,263
West Virginia	–	–	10,688	4,984	–	–	–	–
PAD District 2 Total	**28,021**	**34,853**	**201,853**	**156,140**	**20,399**	**14,501**	**304,719**	**79,466**
Illinois	2,734	568	14,387	3,826	76	–	160,190	2,622
Indiana	24	29	18,366	7,563	–	–	18,393	–
Iowa	35	91	2,028	2,588	–	–	861	–
Kansas	314	382	14,803	7,601	–	–	30,501	31,492
Kentucky	281	–	2,580	1,112	3,782	2,961	473	–
Michigan	800	2,828	13,174	12,372	3,293	2,770	88,941	41,471
Minnesota	10,225	8,626	28,568	19,294	4,139	4,093	3,970	2,568
Missouri	1,363	1,322	5,038	3,123	–	–	–	83
Nebraska	985	–	4,931	5,443	–	–	–	–
North Dakota	1,704	4,163	1,550	167	–	–	245	–
Ohio	33	194	41,421	33,369	3,094	4,165	1,145	1,229
Oklahoma	–	449	15,446	19,305	533	511	–	–
South Dakota	228	14	4,750	4,565	–	–	–	–
Tennessee	–	–	6,839	5,849	–	–	–	–
Wisconsin	9,296	16,187	27,972	29,963	5,482	–	–	–
PAD District 3 Total	**2,841**	**1,033**	**130,561**	**188,488**	**61**	**374**	**632,172**	**48,290**
Alabama	–	–	37,287	82,552	–	–	–	–
Arkansas	–	–	9,491	2,047	–	–	58,535	3,009
Louisiana	–	13	46,449	58,015	–	–	103,347	44,714
Mississippi	2,319	–	9,128	5,328	–	–	448,013	567
New Mexico	–	–	3,939	5,773	61	–	–	–
Texas	523	1,020	24,266	34,774	–	374	22,278	–
PAD District 4 Total	**850**	**–**	**4,506**	**10,243**	**–**	**5,293**	**–**	**–**
Colorado	–	–	191	–	–	–	–	–
Idaho	–	–	1,056	3,533	–	–	–	–
Montana	–	–	116	50	–	1,681	–	–
Utah	850	–	–	388	–	3,243	–	–
Wyoming	–	–	3,143	6,272	–	369	–	–
PAD District 5 Total	**4,229**	**2,981**	**15,959**	**30,535**	**14,831**	**26,364**	**686,695**	**532,935**
Alaska	–	–	856	–	–	–	–	–
Arizona	–	–	1,278	1,286	–	–	16,282	–
California	1,287	–	750	2,131	14,831	5,711	23,828	712
Hawaii	252	3	373	275	–	19,410	560,028	528,609
Nevada	–	–	–	286	–	–	86,556	2,954
Oregon	2,360	2,826	6,260	19,697	–	1,226	–	660
Washington	330	151	6,442	6,860	–	17	–	–

See footnotes at end of table.

Table 17. Adjusted Sales of Residual Fuel Oil by Energy Use, 2001 and 2002 (Continued)

(Thousand Gallons)

Destination	Vessel Bunkering		Military		All Other		Total	
	R2001	2002	R2001	2002	R2001	2002	R2001	2002
U.S. Total	**4,345,284**	**4,746,843**	**16,160**	**3,801**	**4,136**	**3,363**	**13,508,460**	**10,724,994**
PAD District 1 Total	**1,365,554**	**1,699,403**	**10,180**	**1,150**	**3,881**	**2,437**	**8,474,797**	**6,542,481**
Subdistrict 1A Total	**37,618**	**50,375**	**1,773**	**249**	**179**	**258**	**981,420**	**768,292**
Connecticut	66	–	412	48	179	258	153,208	127,286
Maine	24,102	36,696	1,361	8	–	–	279,268	283,159
Massachusetts	13,450	13,679	–	193	–	–	433,246	239,965
New Hampshire	–	–	–	–	–	–	74,783	79,770
Rhode Island	–	–	–	–	–	–	29,651	26,945
Vermont	–	–	–	–	–	–	11,264	11,168
Subdistrict 1B Total	**834,169**	**1,014,824**	**7,187**	**388**	**–**	**–**	**3,137,593**	**2,419,194**
Delaware	60,477	51,499	587	–	–	–	279,412	149,995
District of Columbia	–	–	16	–	–	–	80	–
Maryland	24,854	30,628	3,832	–	–	–	197,792	153,223
New Jersey	486,533	636,996	338	233	–	–	992,441	761,192
New York	148,581	168,839	1,603	–	–	–	1,274,890	1,045,255
Pennsylvania	113,723	126,861	811	154	–	–	392,977	309,529
Subdistrict 1C Total	**493,768**	**634,205**	**1,220**	**514**	**3,703**	**2,179**	**4,355,784**	**3,354,995**
Florida	397,491	460,600	–	–	3,703	2,179	3,544,454	2,601,868
Georgia	30,440	79,191	–	–	–	–	101,963	163,371
North Carolina	4,892	35,210	–	–	–	–	169,643	175,274
South Carolina	13,088	22,758	–	–	–	–	102,208	88,754
Virginia	47,857	36,445	1,220	514	–	–	426,828	320,744
West Virginia	–	–	–	–	–	–	10,688	4,984
PAD District 2 Total	**24,100**	**30,766**	**5,687**	**2,651**	**163**	**164**	**584,942**	**318,540**
Illinois	653	945	5,619	2,328	–	11	183,660	10,300
Indiana	8,003	10,848	–	–	–	–	44,785	18,440
Iowa	–	–	–	–	6	56	2,930	2,735
Kansas	–	–	68	323	27	9	45,713	39,807
Kentucky	31	69	–	–	–	–	7,148	4,142
Michigan	3,313	2,086	–	–	32	28	109,552	61,556
Minnesota	8,386	11,543	–	–	–	3	55,287	46,128
Missouri	195	449	–	–	14	–	6,609	4,978
Nebraska	–	–	–	–	10	11	5,926	5,455
North Dakota	–	–	–	–	–	–	3,499	4,330
Ohio	3,192	4,521	–	–	61	45	48,947	43,522
Oklahoma	–	–	–	–	14	–	15,993	20,265
South Dakota	–	–	–	–	–	–	4,978	4,579
Tennessee	198	124	–	–	–	–	7,037	5,972
Wisconsin	129	181	–	–	–	–	42,878	46,331
PAD District 3 Total	**1,327,370**	**1,316,402**	**–**	**–**	**74**	**24**	**2,093,079**	**1,554,610**
Alabama	33,758	93,487	–	–	–	–	71,045	176,039
Arkansas	–	–	–	–	–	–	68,025	5,056
Louisiana	479,666	458,946	–	–	–	–	629,461	561,688
Mississippi	60,439	54,031	–	–	–	–	519,899	59,926
New Mexico	–	–	–	–	36	24	4,036	5,797
Texas	753,508	709,937	–	–	37	–	800,612	746,105
PAD District 4 Total	**–**	**–**	**–**	**–**	**19**	**19**	**5,375**	**15,555**
Colorado	–	–	–	–	–	–	191	–
Idaho	–	–	–	–	–	–	1,056	3,533
Montana	–	–	–	–	–	–	116	1,731
Utah	–	–	–	–	–	–	850	3,632
Wyoming	–	–	–	–	19	19	3,162	6,660
PAD District 5 Total	**1,628,260**	**1,700,273**	**293**	**–**	**–**	**720**	**2,350,266**	**2,293,808**
Alaska	2,529	2,231	–	–	–	–	3,385	2,231
Arizona	–	–	–	–	–	–	17,561	1,286
California	1,152,664	1,347,440	157	–	–	720	1,193,518	1,356,714
Hawaii	124,324	63,418	135	–	–	–	685,112	611,715
Nevada	–	–	–	–	–	–	86,556	3,240
Oregon	55,082	53,828	–	–	–	–	63,702	78,238
Washington	293,661	233,355	–	–	–	–	300,433	240,383

Dashed (-) = No data reported. R = Revised.

Notes: • See Technical Note 3 for further explanations on 2001 revised data. • Totals may not equal sum of components due to independent rounding.

Sources: • Energy Information Administration's Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 2001-2002 and "Petroleum Supply Annual," Volume 1, 2001-2002, (DOE/EIA-0340(01)/1 - (02)/1). • See Technical Note 3 for further explanation of Electric Power.

Table 18. Adjusted Sales of Kerosene by Energy Use, 2001 and 2002

(Thousand Gallons)

Destination	Residential		Commercial		Industrial	
	2001	2002	2001	2002	2001	2002
U.S. Total	**704,305**	**443,919**	**232,608**	**118,125**	**141,317**	**77,508**
PAD District 1 Total	**582,448**	**365,321**	**194,860**	**94,565**	**56,572**	**33,189**
Subdistrict 1A Total	**116,507**	**71,521**	**30,483**	**17,163**	**6,689**	**1,782**
Connecticut	6,742	3,870	9,684	5,546	2,775	312
Maine	70,328	42,072	6,402	4,721	688	452
Massachusetts	8,269	5,342	6,572	2,459	1,280	244
New Hampshire	14,819	10,992	2,238	1,458	330	300
Rhode Island	2,890	1,421	4,117	2,308	10	5
Vermont	13,459	7,824	1,470	670	1,605	470
Subdistrict 1B Total	**263,226**	**173,882**	**138,781**	**63,384**	**37,188**	**24,709**
Delaware	4,745	2,749	5,339	187	181	11
District of Columbia	4	–	8,705	12	–	–
Maryland	19,761	12,803	14,563	7,194	2,762	1,677
New Jersey	17,203	5,986	52,410	18,983	19,645	12,000
New York	100,395	68,977	36,704	20,717	6,279	8,503
Pennsylvania	121,118	83,366	21,060	16,290	8,321	2,519
Subdistrict 1C Total	**202,715**	**119,918**	**25,596**	**14,018**	**12,695**	**6,698**
Florida	3,833	2,665	1,043	655	4,756	38
Georgia	7,605	3,394	2,571	1,974	940	493
North Carolina	84,907	51,351	8,079	3,978	943	2,416
South Carolina	20,896	12,221	1,680	1,022	3,929	2,458
Virginia	70,602	39,275	9,564	3,688	1,679	1,047
West Virginia	14,873	11,012	2,660	2,701	448	245
PAD District 2 Total	**85,756**	**58,983**	**23,163**	**14,436**	**17,116**	**9,205**
Illinois	5,040	5,981	2,715	1,560	2,087	1,530
Indiana	15,025	11,916	1,828	1,299	1,016	805
Iowa	1,538	932	545	268	197	117
Kansas	603	402	282	229	142	106
Kentucky	11,382	7,118	2,437	1,342	2,183	1,256
Michigan	9,341	6,740	1,460	1,189	1,085	553
Minnesota	7,886	682	1,479	915	117	42
Missouri	3,279	2,137	983	775	455	192
Nebraska	438	127	109	86	31	3
North Dakota	175	87	105	53	16	2
Ohio	18,555	13,808	6,153	3,892	4,319	3,243
Oklahoma	277	641	334	208	1,347	373
South Dakota	153	115	54	82	10	6
Tennessee	10,365	7,046	3,778	1,977	3,752	840
Wisconsin	1,699	1,250	899	560	360	139
PAD District 3 Total	**7,703**	**3,508**	**6,760**	**4,278**	**63,955**	**33,641**
Alabama	1,627	917	1,077	690	431	181
Arkansas	1,014	820	392	172	85	45
Louisiana	1,120	551	674	308	46,033	30,111
Mississippi	1,325	385	426	338	1,111	738
New Mexico	197	108	680	355	136	64
Texas	2,420	728	3,511	2,416	16,159	2,501
PAD District 4 Total	**1,198**	**653**	**980**	**665**	**519**	**263**
Colorado	748	377	431	401	181	60
Idaho	214	111	194	56	15	2
Montana	26	21	1	33	6	3
Utah	131	97	329	148	237	192
Wyoming	79	46	25	26	81	5
PAD District 5 Total	**27,199**	**15,455**	**6,845**	**4,182**	**3,156**	**1,210**
Alaska	670	1	22	9	1	–
Arizona	36	24	135	71	54	23
California	14,701	9,087	2,647	1,147	1,134	308
Hawaii	–	–	3	1	4	3
Nevada	295	289	86	30	16	6
Oregon	7,254	4,602	3,049	1,952	1,392	759
Washington	4,243	1,451	903	972	555	110

See footnotes at end of table.

Table 18. Adjusted Sales of Kerosene by Energy Use, 2001 and 2002 (Continued)

(Thousand Gallons)

Destination	Farm		All Other		Total	
	2001	2002	2001	2002	2001	2002
U.S. Total	**27,162**	**19,390**	**3,535**	**5,372**	**1,108,926**	**664,314**
PAD District 1 Total	**8,366**	**4,026**	**1,776**	**3,362**	**844,021**	**500,462**
Subdistrict 1A Total	**1,240**	**617**	**495**	**503**	**155,414**	**91,585**
Connecticut	18	5	135	155	19,354	9,887
Maine	638	264	65	23	78,120	47,531
Massachusetts	6	9	71	135	16,198	8,188
New Hampshire	313	206	163	129	17,863	13,085
Rhode Island	–	–	–	19	7,017	3,753
Vermont	266	133	62	42	16,862	9,141
Subdistrict 1B Total	**4,251**	**1,822**	**900**	**1,523**	**444,346**	**265,320**
Delaware	37	20	–	–	10,301	2,968
District of Columbia	–	–	–	–	8,709	12
Maryland	327	194	27	17	37,440	21,885
New Jersey	16	2	6	26	89,280	36,997
New York	827	670	475	831	144,679	99,698
Pennsylvania	3,045	937	392	649	153,936	103,761
Subdistrict 1C Total	**2,875**	**1,587**	**380**	**1,335**	**244,261**	**143,557**
Florida	311	6	8	23	9,952	3,387
Georgia	42	336	6	6	11,164	6,205
North Carolina	484	227	87	487	94,499	58,459
South Carolina	1,217	472	71	431	27,792	16,604
Virginia	781	518	194	384	82,820	44,911
West Virginia	39	29	15	4	18,034	13,991
PAD District 2 Total	**12,502**	**13,238**	**1,137**	**1,010**	**139,675**	**96,872**
Illinois	824	316	110	203	10,777	9,591
Indiana	810	6,354	226	64	18,905	20,437
Iowa	1,536	862	90	29	3,905	2,208
Kansas	673	425	22	133	1,721	1,295
Kentucky	874	473	35	65	16,911	10,254
Michigan	787	234	26	22	12,699	8,739
Minnesota	384	192	108	86	9,975	1,917
Missouri	131	86	138	17	4,986	3,207
Nebraska	257	86	33	3	869	305
North Dakota	33	23	17	6	345	170
Ohio	4,151	3,083	89	44	33,268	24,071
Oklahoma	136	82	53	7	2,148	1,311
South Dakota	81	53	20	1	317	257
Tennessee	138	71	119	62	18,152	9,995
Wisconsin	1,688	896	52	270	4,698	3,114
PAD District 3 Total	**3,848**	**612**	**338**	**349**	**82,605**	**42,388**
Alabama	19	8	–	–	3,154	1,796
Arkansas	690	154	5	15	2,186	1,206
Louisiana	17	6	41	1	47,885	30,977
Mississippi	26	16	1	–	2,889	1,477
New Mexico	102	61	67	140	1,182	728
Texas	2,994	367	224	193	25,308	6,205
PAD District 4 Total	**596**	**525**	**29**	**460**	**3,321**	**2,565**
Colorado	39	108	16	273	1,414	1,220
Idaho	33	17	8	5	464	192
Montana	492	380	–	–	524	437
Utah	30	20	3	8	730	465
Wyoming	1	1	2	173	188	251
PAD District 5 Total	**1,850**	**989**	**255**	**192**	**39,304**	**22,027**
Alaska	–	–	–	–	693	11
Arizona	–	1	5	1	230	119
California	481	285	152	28	19,115	10,855
Hawaii	–	–	–	–	7	5
Nevada	9	1	–	–	407	326
Oregon	933	475	38	63	12,666	7,851
Washington	427	227	59	100	6,187	2,861

Dashed (-) = No data reported.

Notes: • Totals may not equal sum of components due to independent rounding.

Sources: • Energy Information Administration's Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 2001-2002 and "Petroleum Supply Annual," Volume 1, 2001-2002, (DOE/EIA-0340(01)/1 - (02)/1).

Table 19. Adjusted Sales for Residential Use: Distillate Fuel Oil and Kerosene, 2002
(Thousand Gallons)

Destination	Distillate Fuel Oil			Kerosene
	No. 1	No. 2	Total	
U.S. Total	**97,892**	**5,830,179**	**5,928,071**	**443,919**
PAD District 1 Total	**4,123**	**5,192,749**	**5,196,872**	**365,321**
Subdistrict 1A Total	**1,986**	**2,083,168**	**2,085,154**	**71,521**
Connecticut	106	529,648	529,754	3,870
Maine	1,169	271,855	273,024	42,072
Massachusetts	13	892,675	892,688	5,342
New Hampshire	698	167,740	168,438	10,992
Rhode Island	–	135,745	135,745	1,421
Vermont	–	85,505	85,505	7,824
Subdistrict 1B Total	**610**	**2,757,936**	**2,758,546**	**173,882**
Delaware	–	40,038	40,038	2,749
District of Columbia	–	14,234	14,234	–
Maryland	2	178,006	178,008	12,803
New Jersey	–	366,112	366,112	5,986
New York	397	1,330,288	1,330,685	68,977
Pennsylvania	212	829,258	829,470	83,366
Subdistrict 1C Total	**1,527**	**351,645**	**353,172**	**119,918**
Florida	–	3,785	3,785	2,665
Georgia	–	2,225	2,225	3,394
North Carolina	–	113,584	113,584	51,351
South Carolina	46	15,585	15,631	12,221
Virginia	1,055	196,518	197,573	39,275
West Virginia	427	19,948	20,375	11,012
PAD District 2 Total	**58,630**	**473,972**	**532,602**	**58,983**
Illinois	1,334	8,889	10,223	5,981
Indiana	4,387	28,251	32,638	11,916
Iowa	3,160	19,310	22,470	932
Kansas	366	1,023	1,389	402
Kentucky	354	15,340	15,694	7,118
Michigan	7,527	78,149	85,676	6,740
Minnesota	16,109	69,698	85,807	682
Missouri	1,417	9,819	11,236	2,137
Nebraska	786	1,850	2,636	127
North Dakota	2,704	13,733	16,437	87
Ohio	6,446	116,521	122,967	13,808
Oklahoma	41	35	76	641
South Dakota	2,695	7,656	10,351	115
Tennessee	405	4,040	4,445	7,046
Wisconsin	10,899	99,658	110,557	1,250
PAD District 3 Total	**32**	**3,138**	**3,170**	**3,508**
Alabama	2	1,759	1,761	917
Arkansas	2	412	414	820
Louisiana	–	420	420	551
Mississippi	–	51	51	385
New Mexico	29	308	337	108
Texas	–	187	187	728
PAD District 4 Total	**4,904**	**19,796**	**24,700**	**653**
Colorado	116	883	999	377
Idaho	2,924	11,262	14,186	111
Montana	1,623	3,334	4,957	21
Utah	146	3,194	3,340	97
Wyoming	95	1,123	1,218	46
PAD District 5 Total	**30,203**	**140,524**	**170,727**	**15,455**
Alaska	24,684	29,210	53,894	1
Arizona	17	323	340	24
California	68	5,237	5,305	9,087
Hawaii	–	11	11	–
Nevada	232	7,283	7,515	289
Oregon	2,579	32,528	35,107	4,602
Washington	2,623	65,933	68,556	1,451

Dashed (-) = No data reported.

Notes: • See Technical Note 3 for further explanations. • Totals may not equal sum of components due to independent rounding.

Sources: • Energy Information Administration's Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 2002 and "Petroleum Supply Annual," Volume 1, 2002, (DOE/EIA-0340(02)/1).

Table 20. Adjusted Sales for Commercial Use: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 2002
(Thousand Gallons)

Destination	Distillate Fuel Oil							Residual Fuel Oil	Kerosene
	No. 1 Distillate	No. 2 Distillate				No. 4 Fuel	Total Distillate		
		No. 2 Fuel Oil	Low Sulfur Diesel	High Sulfur Diesel	No. 2 Total				
U.S. Total	**58,160**	**1,332,973**	**1,015,403**	**479,610**	**2,827,986**	**179,631**	**3,065,777**	**560,137**	**118,125**
PAD District 1 Total	**3,686**	**1,185,246**	**382,804**	**255,143**	**1,823,193**	**179,135**	**2,006,014**	**521,271**	**94,565**
Subdistrict 1A Total	**336**	**427,963**	**44,346**	**10,189**	**482,498**	**23,497**	**506,331**	**86,660**	**17,163**
Connecticut	88	91,234	20,724	1,198	113,156	3,482	116,727	14,164	5,546
Maine	66	104,495	2,806	1,742	109,043	983	110,091	17,484	4,721
Massachusetts	–	131,315	9,255	1,865	142,435	12,693	155,128	28,344	2,459
New Hampshire	25	53,191	5,842	464	59,497	3,059	62,582	5,442	1,458
Rhode Island	157	21,876	2,441	603	24,920	1,723	26,800	15,897	2,308
Vermont	–	25,851	3,279	4,316	33,446	1,557	35,003	5,329	670
Subdistrict 1B Total	**1,933**	**669,799**	**196,388**	**111,746**	**977,933**	**154,214**	**1,134,080**	**424,102**	**63,384**
Delaware	–	8,316	2,708	2,319	13,343	380	13,724	9,447	187
District of Columbia	1	9,988	605	184	10,777	1,188	11,966	–	12
Maryland	49	47,648	20,363	32,135	100,146	891	101,085	2,790	7,194
New Jersey	24	78,849	7,195	8,162	94,206	3,412	97,642	12,312	18,983
New York	764	391,496	55,835	14,778	462,109	145,236	608,109	382,955	20,717
Pennsylvania	1,096	133,502	109,681	54,169	297,352	3,106	301,554	16,597	16,290
Subdistrict 1C Total	**1,416**	**87,484**	**142,070**	**133,208**	**362,762**	**1,424**	**365,602**	**10,509**	**14,018**
Florida	–	3,639	63,372	36,294	103,306	576	103,882	3,132	655
Georgia	39	2,424	23,955	15,109	41,488	–	41,527	–	1,974
North Carolina	5	30,798	21,023	28,569	80,391	176	80,572	3,286	3,978
South Carolina	–	4,720	14,550	7,794	27,064	–	27,064	830	1,022
Virginia	1,160	42,192	14,285	41,195	97,672	558	99,390	3,261	3,688
West Virginia	212	3,711	4,884	4,246	12,840	115	13,167	–	2,701
PAD District 2 Total	**23,572**	**109,200**	**267,113**	**112,117**	**488,430**	**12**	**512,013**	**34,853**	**14,436**
Illinois	4,815	5,066	31,718	21,931	58,715	–	63,529	568	1,560
Indiana	1,700	14,618	28,281	8,793	51,692	–	53,392	29	1,299
Iowa	1,380	7,672	6,788	1,731	16,192	–	17,571	91	268
Kansas	1,758	765	20,068	2,022	22,856	–	24,614	382	229
Kentucky	72	3,251	20,156	17,864	41,271	–	41,343	–	1,342
Michigan	580	7,321	22,441	7,073	36,836	5	37,421	2,828	1,189
Minnesota	3,247	12,053	10,481	6,001	28,535	6	31,788	8,626	915
Missouri	604	7,966	19,606	10,336	37,909	–	38,513	1,322	775
Nebraska	1,067	344	2,025	142	2,511	–	3,578	–	86
North Dakota	849	2,100	1,913	625	4,638	–	5,487	4,163	53
Ohio	2,663	26,512	38,760	19,431	84,702	–	87,365	194	3,892
Oklahoma	1	28	12,430	1,085	13,543	–	13,544	449	208
South Dakota	816	2,790	2,809	539	6,138	–	6,954	14	82
Tennessee	71	1,431	28,799	9,746	39,975	–	40,046	–	1,977
Wisconsin	3,950	17,283	20,838	4,797	42,918	–	46,868	16,187	560
PAD District 3 Total	**609**	**1,681**	**153,298**	**61,604**	**216,582**	**458**	**217,649**	**1,033**	**4,278**
Alabama	–	689	30,391	6,204	37,284	458	37,742	–	690
Arkansas	231	11	13,005	8,269	21,285	–	21,516	–	172
Louisiana	154	78	10,875	7,186	18,139	–	18,293	13	308
Mississippi	–	5	7,188	5,441	12,634	–	12,634	–	338
New Mexico	187	405	11,473	3,778	15,655	–	15,842	–	355
Texas	38	493	80,366	30,725	111,584	–	111,623	1,020	2,416
PAD District 4 Total	**5,434**	**6,525**	**49,053**	**12,005**	**67,582**	**–**	**73,016**	**–**	**665**
Colorado	1,490	779	17,135	709	18,623	–	20,113	–	401
Idaho	605	2,193	6,495	4,002	12,690	–	13,295	–	56
Montana	516	2,617	1,988	440	5,045	–	5,561	–	33
Utah	897	692	14,856	6,146	21,694	–	22,592	–	148
Wyoming	1,926	244	8,578	708	9,530	–	11,455	–	26
PAD District 5 Total	**24,860**	**30,322**	**163,135**	**38,741**	**232,199**	**26**	**257,084**	**2,981**	**4,182**
Alaska	21,327	9,792	2,186	11,457	23,435	23	44,785	–	9
Arizona	57	6	29,943	71	30,019	–	30,077	–	71
California	20	3,362	74,173	1,624	79,159	3	79,182	–	1,147
Hawaii	–	56	7,320	3,836	11,212	–	11,212	3	1
Nevada	742	1,908	10,120	152	12,180	–	12,922	–	30
Oregon	894	3,977	19,866	12,395	36,238	–	37,132	2,826	1,952
Washington	1,819	11,222	19,527	9,206	39,955	–	41,775	151	972

Dashed (-) = No data reported.

Notes: • See Technical Note 3 for further explanations. • Totals may not equal sum of components due to independent rounding.

Sources: • Energy Information Administration's Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 2002 and "Petroleum Supply Annual," Volume 1, 2002, (DOE/EIA-0340(02)/1).

Table 21. Adjusted Sales for Industrial Use: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 2002
(Thousand Gallons)

Destination	Distillate Fuel Oil							Residual Fuel Oil	Kerosene
	No. 1 Distillate	No. 2 Distillate				No. 4 Fuel	Total Distillate		
		No. 2 Fuel Oil	Low Sulfur Diesel	High Sulfur Diesel	No. 2 Total				
U.S. Total	**44,272**	**298,414**	**783,138**	**1,082,396**	**2,163,949**	**30,237**	**2,238,458**	**1,224,614**	**77,508**
PAD District 1 Total	**980**	**187,167**	**84,098**	**446,675**	**717,940**	**25,732**	**744,651**	**839,208**	**33,189**
Subdistrict 1A Total	**415**	**37,291**	**6,254**	**3,127**	**46,672**	**10,261**	**57,348**	**312,418**	**1,782**
Connecticut	–	8,980	1,272	166	10,418	4,654	15,072	14,743	312
Maine	27	11,433	1,802	710	13,945	1,552	15,524	183,028	452
Massachusetts	13	6,106	1,157	1,510	8,773	1,603	10,389	76,022	244
New Hampshire	375	4,370	1,502	37	5,909	582	6,865	21,776	300
Rhode Island	–	2,738	152	–	2,890	1,031	3,920	11,009	5
Vermont	–	3,664	369	704	4,737	841	5,578	5,839	470
Subdistrict 1B Total	**6**	**82,036**	**21,411**	**77,994**	**181,441**	**12,957**	**194,404**	**142,163**	**24,709**
Delaware	–	977	1,454	200	2,630	698	3,328	21,703	11
District of Columbia	–	–	–	–	–	180	180	–	–
Maryland	–	12,880	2,856	8,621	24,357	346	24,702	17,631	1,677
New Jersey	–	16,346	870	1,189	18,404	5,206	23,610	11,082	12,000
New York	–	27,654	4,470	6,301	38,425	4,176	42,601	59,503	8,503
Pennsylvania	6	24,179	11,762	61,684	97,625	2,351	99,982	32,244	2,519
Subdistrict 1C Total	**559**	**67,841**	**56,432**	**365,553**	**489,826**	**2,513**	**492,898**	**384,627**	**6,698**
Florida	42	3,237	16,606	31,028	50,871	733	51,646	67,956	38
Georgia	–	8,728	21,579	38,653	68,960	6	68,966	79,969	493
North Carolina	–	12,729	9,989	23,838	46,556	681	47,236	136,669	2,416
South Carolina	–	5,912	1,056	7,190	14,158	362	14,521	65,036	2,458
Virginia	30	19,806	4,229	58,195	82,230	714	82,974	30,013	1,047
West Virginia	488	17,428	2,974	206,649	227,051	18	227,556	4,984	245
PAD District 2 Total	**16,995**	**99,345**	**183,168**	**324,928**	**607,441**	**2,945**	**627,381**	**156,140**	**9,205**
Illinois	3,793	7,810	20,430	30,232	58,473	18	62,283	3,826	1,530
Indiana	4,034	14,763	29,024	69,303	113,090	576	117,699	7,563	805
Iowa	473	1,717	5,840	1,152	8,710	–	9,183	2,588	117
Kansas	345	431	8,047	3,099	11,576	2	11,924	7,601	106
Kentucky	68	5,314	17,605	107,697	130,616	393	131,077	1,112	1,256
Michigan	1,261	4,711	5,812	11,287	21,809	–	23,070	12,372	553
Minnesota	1,742	18,112	14,815	1,529	34,456	–	36,198	19,294	42
Missouri	1,650	5,416	17,844	19,082	42,342	–	43,992	3,123	192
Nebraska	411	–	1,149	3,609	4,758	–	5,169	5,443	3
North Dakota	657	147	2,544	5,618	8,308	–	8,965	167	2
Ohio	292	18,949	22,792	33,033	74,774	1,534	76,600	33,369	3,243
Oklahoma	44	2,636	4,622	10,962	18,220	–	18,264	19,305	373
South Dakota	393	503	7,018	157	7,678	–	8,071	4,565	6
Tennessee	–	3,529	6,236	14,627	24,393	241	24,633	5,849	840
Wisconsin	1,834	15,306	19,390	13,541	48,237	181	50,253	29,963	139
PAD District 3 Total	**2,205**	**5,299**	**195,243**	**189,927**	**390,469**	**726**	**393,400**	**188,488**	**33,641**
Alabama	–	228	23,625	39,952	63,805	726	64,531	82,552	181
Arkansas	–	150	16,958	12,012	29,120	–	29,120	2,047	45
Louisiana	–	3,254	22,353	57,586	83,193	–	83,193	58,015	30,111
Mississippi	–	–	12,694	23,293	35,987	–	35,987	5,328	738
New Mexico	2,205	1,520	34,469	2,153	38,141	–	40,346	5,773	64
Texas	–	146	85,144	54,932	140,223	–	140,223	34,774	2,501
PAD District 4 Total	**8,265**	**6,089**	**181,672**	**26,431**	**214,192**	**–**	**222,456**	**10,243**	**263**
Colorado	1,429	184	25,484	1,770	27,438	–	28,868	–	60
Idaho	1,204	4,575	5,757	6,355	16,687	–	17,892	3,533	2
Montana	798	156	11,949	8,266	20,371	–	21,169	50	3
Utah	1,927	1,170	23,452	9,950	34,571	–	36,498	388	192
Wyoming	2,906	3	115,031	90	115,124	–	118,031	6,272	5
PAD District 5 Total	**15,828**	**514**	**138,957**	**94,436**	**233,907**	**834**	**250,569**	**30,535**	**1,210**
Alaska	15,608	325	6,777	18,288	25,390	–	40,998	–	–
Arizona	53	–	27,576	34,076	61,652	42	61,748	1,286	23
California	–	127	42,256	1,586	43,970	–	43,970	2,131	308
Hawaii	–	54	1,236	789	2,078	–	2,078	275	3
Nevada	101	–	37,417	12,492	49,909	791	50,801	286	6
Oregon	50	8	11,219	18,513	29,740	–	29,791	19,697	759
Washington	15	–	12,474	8,693	21,167	–	21,182	6,860	110

Dashed (-) = No data reported.

Notes: • See Technical Note 3 for further explanations. • Totals may not equal sum of components due to independent rounding.

Sources: • Energy Information Administration's Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 2002 and "Petroleum Supply Annual," Volume 1, 2002, (DOE/EIA-0340(02)/1).

Table 22. Adjusted Sales for Farm Use: Distillate Fuel Oil and Kerosene; Sales for Electric Power and Oil Company Uses: Distillate Fuel Oil and Residual Fuel Oil, 2002
(Thousand Gallons)

Destination	Farm				Electric Power		Oil Company Use	
	Diesel	Other Distillate	Total Distillate	Kerosene	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil
U.S. Total	**3,109,494**	**69,815**	**3,179,309**	**19,390**	**633,714**	**4,079,824**	**825,464**	**106,412**
PAD District 1 Total	**421,893**	**41,988**	**463,881**	**4,026**	**291,842**	**3,419,132**	**24,359**	**59,880**
Subdistrict 1A Total	**15,998**	**14,207**	**30,205**	**617**	**7,499**	**317,185**	**38**	**1,148**
Connecticut	2,416	5,038	7,454	5	1,154	97,741	6	332
Maine	3,606	3,969	7,574	264	270	45,547	32	395
Massachusetts	4,523	610	5,134	9	2,875	121,307	–	420
New Hampshire	1,822	2,858	4,680	206	1,845	52,551	–	–
Rhode Island	99	28	127	–	1,005	39	–	–
Vermont	3,532	1,705	5,237	133	349	–	–	–
Subdistrict 1B Total	**83,721**	**20,603**	**104,324**	**1,822**	**109,156**	**779,473**	**18,032**	**58,245**
Delaware	7,791	105	7,896	20	3,762	37,900	10,473	29,447
District of Columbia	–	–	–	–	16,250	–	–	–
Maryland	14,164	179	14,342	194	20,133	101,594	7	579
New Jersey	9,019	486	9,505	2	15,548	98,775	277	1,793
New York	28,254	13,559	41,813	670	9,032	433,351	1	607
Pennsylvania	24,494	6,274	30,768	937	44,430	107,853	7,274	25,819
Subdistrict 1C Total	**322,174**	**7,178**	**329,352**	**1,587**	**175,188**	**2,322,475**	**6,290**	**487**
Florida	124,472	674	125,146	6	105,814	2,068,001	205	–
Georgia	111,054	–	111,054	336	8,726	4,211	84	–
North Carolina	37,060	4,306	41,366	227	26,539	–	259	109
South Carolina	18,286	1,261	19,547	472	12,502	–	564	130
Virginia	29,956	920	30,876	518	8,681	250,263	398	249
West Virginia	1,346	16	1,362	29	12,925	–	4,780	–
PAD District 2 Total	**1,511,831**	**23,677**	**1,535,508**	**13,238**	**121,408**	**79,466**	**42,467**	**14,501**
Illinois	133,753	4,292	138,046	316	7,464	2,622	473	–
Indiana	75,805	2,483	78,288	6,354	12,673	–	59	–
Iowa	203,167	3,845	207,012	862	2,443	–	–	–
Kansas	135,694	207	135,901	425	4,377	31,492	7,928	–
Kentucky	32,328	268	32,596	473	8,712	–	419	2,961
Michigan	42,283	1,229	43,512	234	20,242	41,471	22	2,770
Minnesota	103,931	3,214	107,145	192	4,838	2,568	2	4,093
Missouri	62,846	39	62,884	86	5,835	83	139	–
Nebraska	180,062	328	180,390	86	577	–	–	–
North Dakota	85,796	1,228	87,024	23	1,368	–	3,441	–
Ohio	81,918	698	82,616	3,083	22,903	1,229	1,554	4,165
Oklahoma	57,449	478	57,927	82	8,737	–	28,348	511
South Dakota	49,909	952	50,861	53	592	–	11	–
Tennessee	28,107	55	28,161	71	15,354	–	–	–
Wisconsin	238,783	4,362	243,145	896	5,293	–	72	–
PAD District 3 Total	**598,989**	**948**	**599,938**	**612**	**61,688**	**48,290**	**691,818**	**374**
Alabama	23,635	125	23,760	8	2,537	–	274	–
Arkansas	125,005	559	125,564	154	4,512	3,009	1,592	–
Louisiana	78,319	–	78,319	6	7,084	44,714	377,699	–
Mississippi	72,302	245	72,548	16	1,112	567	9,853	–
New Mexico	17,547	20	17,567	61	2,351	–	22,999	–
Texas	282,180	–	282,180	367	44,091	–	279,402	374
PAD District 4 Total	**156,962**	**3,037**	**159,998**	**525**	**5,846**	**–**	**20,324**	**5,293**
Colorado	41,170	2,258	43,427	108	1,577	–	4,199	–
Idaho	56,546	254	56,799	17	16	–	–	–
Montana	35,776	439	36,215	380	–	–	1,189	1,681
Utah	11,547	37	11,584	20	1,601	–	722	3,243
Wyoming	11,923	50	11,973	1	2,651	–	14,214	369
PAD District 5 Total	**419,820**	**164**	**419,985**	**989**	**152,931**	**532,935**	**46,495**	**26,364**
Alaska	13	–	13	–	41,943	–	32,318	–
Arizona	31,829	–	31,829	1	4,212	–	316	–
California	301,572	7	301,580	285	5,839	712	10,560	5,711
Hawaii	7,973	–	7,973	–	94,779	528,609	3	19,410
Nevada	4,581	1	4,582	1	1,689	2,954	919	–
Oregon	43,192	156	43,348	475	4,059	660	1,721	1,226
Washington	30,661	–	30,661	227	412	–	657	17

Dashed (-) = No data reported.

Notes: • See Technical Note 3 for further explanations on 2002 preliminary data.• Totals may not equal sum of components due to independent rounding.

Sources: • Energy Information Administration's Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 2002 and "Petroleum Supply Annual," Volume 1, 2002, (DOE/EIA-0340(02)/1). • See Technical Note 3 for further explanation of Electric Power.

Table 23. Adjusted Sales for Transportation Use: Distillate Fuel Oil and Residual Fuel Oil, 2002
(Thousand Gallons)

Destination	Railroad Use	Vessel Bunkering		On-Highway Diesel	Total Transportation Use	
	Distillate Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil
U.S. Total	**3,080,831**	**2,069,514**	**4,746,843**	**34,308,885**	**39,459,231**	**4,746,843**
PAD District 1 Total	**512,284**	**450,623**	**1,699,403**	**10,373,983**	**11,336,890**	**1,699,403**
Subdistrict 1A Total	**17,194**	**56,785**	**50,375**	**1,077,477**	**1,151,456**	**50,375**
Connecticut	4,797	2,425	–	228,081	235,303	–
Maine	337	8,669	36,696	167,632	176,637	36,696
Massachusetts	11,947	36,123	13,679	398,217	446,286	13,679
New Hampshire	91	340	–	164,623	165,054	–
Rhode Island	–	8,430	–	54,785	63,215	–
Vermont	22	799	–	64,139	64,960	–
Subdistrict 1B Total	**150,107**	**122,879**	**1,014,824**	**3,785,263**	**4,058,249**	**1,014,824**
Delaware	839	594	51,499	62,154	63,587	51,499
District of Columbia	4,383	268	–	27,049	31,700	–
Maryland	1,252	11,257	30,628	501,802	514,311	30,628
New Jersey	29,782	79,821	636,996	833,183	942,786	636,996
New York	19,011	8,959	168,839	988,428	1,016,398	168,839
Pennsylvania	94,840	21,980	126,861	1,372,647	1,489,467	126,861
Subdistrict 1C Total	**344,984**	**270,959**	**634,205**	**5,511,243**	**6,127,186**	**634,205**
Florida	73,115	143,577	460,600	1,344,310	1,561,003	460,600
Georgia	114,532	22,327	79,191	1,313,424	1,450,283	79,191
North Carolina	82,842	10,057	35,210	976,151	1,069,050	35,210
South Carolina	11,843	19,782	22,758	634,567	666,191	22,758
Virginia	52,732	28,235	36,445	973,906	1,054,873	36,445
West Virginia	9,920	46,981	–	268,885	325,786	–
PAD District 2 Total	**1,100,673**	**280,815**	**30,766**	**11,548,458**	**12,929,946**	**30,766**
Illinois	105,192	46,586	945	1,137,642	1,289,420	945
Indiana	79,340	8,427	10,848	1,354,201	1,441,968	10,848
Iowa	19,951	3,204	–	504,461	527,616	–
Kansas	64,619	1,280	–	405,689	471,589	–
Kentucky	90,550	56,169	69	991,256	1,137,975	69
Michigan	24,004	4,944	2,086	939,587	968,534	2,086
Minnesota	52,465	3,748	11,543	649,613	705,826	11,543
Missouri	20,116	30,123	449	946,940	997,179	449
Nebraska	2,493	–	–	373,857	376,350	–
North Dakota	46,389	–	–	152,301	198,690	–
Ohio	166,558	5,101	4,521	1,498,239	1,669,898	4,521
Oklahoma	307,443	170	–	819,929	1,127,543	–
South Dakota	4,296	–	–	191,656	195,952	–
Tennessee	81,222	112,364	124	903,682	1,097,268	124
Wisconsin	36,035	8,699	181	679,405	724,139	181
PAD District 3 Total	**851,077**	**1,052,670**	**1,316,402**	**5,945,268**	**7,849,015**	**1,316,402**
Alabama	59,360	73,400	93,487	667,844	800,603	93,487
Arkansas	127,357	897	–	610,663	738,917	–
Louisiana	52,363	609,524	458,946	615,227	1,277,114	458,946
Mississippi	18,870	68,668	54,031	538,079	625,617	54,031
New Mexico	10,021	–	–	419,853	429,874	–
Texas	583,106	300,181	709,937	3,093,602	3,976,889	709,937
PAD District 4 Total	**228,020**	**21**	**–**	**1,632,707**	**1,860,748**	**–**
Colorado	35,981	10	–	544,627	580,618	–
Idaho	22,854	11	–	223,184	246,049	–
Montana	54,726	–	–	201,566	256,292	–
Utah	29,136	–	–	353,215	382,351	–
Wyoming	85,323	–	–	310,115	395,438	–
PAD District 5 Total	**388,778**	**285,385**	**1,700,273**	**4,808,469**	**5,482,632**	**1,700,273**
Alaska	4,880	85,527	2,231	108,777	199,183	2,231
Arizona	12,850	–	–	642,850	655,700	–
California	247,870	57,712	1,347,440	2,703,680	3,009,261	1,347,440
Hawaii	–	77,800	63,418	38,122	115,922	63,418
Nevada	7,617	3	–	286,639	294,259	–
Oregon	64,021	13,254	53,828	458,057	535,332	53,828
Washington	51,541	51,090	233,355	570,344	672,975	233,355

Dashed (-) = No data reported.

Notes: • See Technical Note 3 for further explanations. • Totals may not equal sum of components due to independent rounding.

Sources: • Energy Information Administration's Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 2002 and "Petroleum Supply Annual," Volume 1, 2002, (DOE/EIA-0340(02)/1). • On-Highway Diesel data are Federal Highway Administration statistics of highway special fuels use.

Table 24. Adjusted Sales for Military, Off-Highway, and All Other Uses: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 2002
(Thousand Gallons)

Destination	Military				Off-Highway Distillate Fuel Oil			All Other	
	Diesel	Other Distillate	Total Distillate	Residual Fuel Oil	Construction	Other	Total	Residual Fuel Oil	Kerosene
U.S. Total	**303,664**	**26,878**	**330,542**	**3,801**	**1,818,411**	**405,675**	**2,224,086**	**3,363**	**5,372**
PAD District 1 Total	**44,383**	**19,243**	**63,626**	**1,150**	**536,491**	**116,721**	**653,212**	**2,437**	**3,362**
Subdistrict 1A Total	**4,024**	**5,372**	**9,396**	**249**	**54,444**	**9,760**	**64,204**	**258**	**503**
Connecticut	263	531	794	48	11,377	381	11,758	258	155
Maine	2,192	2,882	5,074	8	8,780	1,198	9,978	–	23
Massachusetts	532	462	994	193	20,920	3,110	24,030	–	135
New Hampshire	707	1,258	1,965	–	9,840	3,671	13,511	–	129
Rhode Island	28	1	30	–	2,076	1	2,077	–	19
Vermont	302	237	539	–	1,452	1,399	2,851	–	42
Subdistrict 1B Total	**11,616**	**9,405**	**21,021**	**388**	**180,906**	**17,825**	**198,731**	**–**	**1,523**
Delaware	194	175	369	–	2,930	191	3,121	–	–
District of Columbia	1,420	704	2,124	–	2,623	–	2,623	–	–
Maryland	4,691	2,540	7,231	–	30,290	2,136	32,426	–	17
New Jersey	999	711	1,710	233	44,663	8,883	53,547	–	26
New York	1,068	1,705	2,772	–	29,372	3,096	32,469	–	831
Pennsylvania	3,244	3,571	6,815	154	71,027	3,518	74,545	–	649
Subdistrict 1C Total	**28,743**	**4,466**	**33,209**	**514**	**301,140**	**89,137**	**390,277**	**2,179**	**1,335**
Florida	5,419	–	5,419	–	101,065	9,780	110,845	2,179	23
Georgia	3,232	14	3,246	–	60,370	24,747	85,117	–	6
North Carolina	3,239	3,563	6,802	–	35,420	13,711	49,131	–	487
South Carolina	1,413	572	1,985	–	36,525	23,237	59,762	–	431
Virginia	15,289	232	15,521	514	58,093	12,532	70,625	–	384
West Virginia	151	85	236	–	9,667	5,130	14,797	–	4
PAD District 2 Total	**7,453**	**1,456**	**8,909**	**2,651**	**492,206**	**68,540**	**560,746**	**164**	**1,010**
Illinois	432	1	432	2,328	81,684	3,874	85,558	11	203
Indiana	49	–	49	–	32,060	4,306	36,365	–	64
Iowa	1,944	42	1,986	–	22,160	2,113	24,273	56	29
Kansas	170	–	171	323	15,254	2,083	17,338	9	133
Kentucky	775	203	977	–	34,559	4,749	39,308	–	65
Michigan	645	–	645	–	36,912	3,629	40,541	28	22
Minnesota	220	–	220	–	35,189	15,478	50,667	3	86
Missouri	1,006	208	1,213	–	64,753	7,413	72,166	–	17
Nebraska	6	–	6	–	6,637	1,985	8,622	11	3
North Dakota	354	–	354	–	9,830	674	10,505	–	6
Ohio	962	538	1,501	–	46,037	4,288	50,325	45	44
Oklahoma	–	–	–	–	27,113	2,312	29,425	–	7
South Dakota	137	2	140	–	8,303	1,519	9,822	–	1
Tennessee	122	17	139	–	25,677	7,385	33,062	–	62
Wisconsin	632	444	1,075	–	46,038	6,731	52,769	–	270
PAD District 3 Total	**94,113**	**–**	**94,113**	**–**	**385,493**	**129,167**	**514,660**	**24**	**349**
Alabama	2,174	–	2,174	–	35,824	33,735	69,559	–	–
Arkansas	671	–	671	–	23,256	29,973	53,229	–	15
Louisiana	1,547	–	1,547	–	57,962	16,317	74,280	–	1
Mississippi	7,909	–	7,909	–	32,341	17,828	50,169	–	–
New Mexico	41	–	41	–	15,784	3,464	19,248	24	140
Texas	81,771	–	81,771	–	220,326	27,850	248,176	–	193
PAD District 4 Total	**5,479**	**8**	**5,487**	**–**	**122,393**	**22,008**	**144,401**	**19**	**460**
Colorado	363	8	371	–	57,695	709	58,404	–	273
Idaho	3,905	–	3,905	–	11,143	10,762	21,905	–	5
Montana	9	–	9	–	9,296	6,683	15,979	–	–
Utah	1,199	–	1,199	–	22,800	2,024	24,824	–	8
Wyoming	2	–	2	–	21,460	1,830	23,290	19	173
PAD District 5 Total	**152,236**	**6,172**	**158,408**	**–**	**281,828**	**69,239**	**351,067**	**720**	**192**
Alaska	6,382	–	6,382	–	8,963	2,209	11,172	–	–
Arizona	10	–	10	–	38,914	2,778	41,692	–	1
California	48,320	–	48,320	–	149,279	24,038	173,317	720	28
Hawaii	10,655	–	10,655	–	6,556	–	6,556	–	–
Nevada	485	–	485	–	22,956	679	23,635	–	–
Oregon	2,157	17	2,174	–	17,994	13,756	31,750	–	63
Washington	84,228	6,156	90,383	–	37,167	25,779	62,946	–	100

Dashed (-) = No data reported.

Notes: • See Technical Note 3 for further explanations. • Totals may not equal sum of components due to independent rounding.

Sources: • Energy Information Administration's Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 2002 and "Petroleum Supply Annual," Volume 1, 2002, (DOE/EIA-0340(02)/1).

• Energy Information Administration's "Petroleum Supply Annual," Volume 1, 2002, (DOE/EIA-0340(02)/1).

Appendix A

Technical Notes

Appendix A

Technical Notes

Note 1: EIA-821: Annual Fuel Oil and Kerosene Sales Report, 2002

Background

The EIA-821, "Annual Fuel Oil and Kerosene Sales Report" survey was implemented to meet Energy Information Administration (EIA) legislative mandates and data user needs. Form EIA-821 is used to gather data on the sales to energy users of distillate fuel oil, residual fuel oil, and kerosene. The data are used to determine the level of demand by energy use category and product at the State, regional, and national levels. This mandatory report is authorized by the Federal Energy Administration Act of 1974 (P. L. 93-275).

The predecessor survey to the EIA-821 was the EIA-172, "Sales Report of Fuel Oil and Kerosene" survey. The EIA-172 was conducted for reference years 1979 through 1982. Due to a serious deterioration in the sample of respondents during the 4-year period, the Form EIA-172 data were not collected for 1983. Instead, estimates for 1983 were published and a new sample of respondents was designed and selected from an improved sampling frame. The EIA-821 survey commenced with reference year 1984.

Discussion of Sampling Frame

The target population for the fuel oil and kerosene sales survey is the universe of companies that sell fuel oil and kerosene to energy users.

The EIA-863 database provided the sampling frame for the EIA-821 survey. The EIA-863, "Petroleum Product Sales Identification Survey," was mailed to approximately 22,300 companies in January 1999 to collect 1998 State-level sales volume data for No. 2 distillate, residual fuel, motor gasoline, and propane. Companies also indicated if they sold kerosene. The No. 2 distillate data were further identified by residential and nonresidential energy use, and non-energy use sales; the residual data were identified by energy use and non-energy use; motor gasoline was identified by energy use and non-energy use and by conventional and oxygenated and/or reformulated; and propane was identified by residential, nonresidential, and non-energy use sales. The mailing list for the EIA-863 survey was constructed by merging and unduplicating the 1994 frame file and more than 50 State and commercial lists. In addition, company/State-level volumes for distillate fuel, residual fuel, motor gasoline, and propane from the 1998 EIA-821 survey were merged with the EIA-863 to yield a combined data file. The transformed and edited version of the frame was then used to design and select the 1999 EIA-821 sample.

It should be noted that truck stops selling No. 2 diesel fuel were not specifically included in the EIA-863 survey. Therefore, the EIA-821 survey does not include all sales of No. 2 distillate through retail truck stops. However, to compensate for this shortage in coverage, data from the Federal Highway Administration are presented in the tables for on-highway diesel sales.

The sampling frame also lacked full coverage of kerosene retailers, many of whom are hardware stores and service stations. To account for all kerosene volumes supplied to the marketplace, aggregate reported kerosene volumes are set equal to the products supplied volumes published in the *Petroleum Supply Annual.*

Discussion of the Sample Design

The purpose of the EIA-821 sample design was to produce State-level estimates of total sales for the following five target variables: (1) residential No. 2 distillate, (2) other retail No. 2 distillate, (3) wholesale No. 2 distillate, (4) retail residual, and (5) wholesale residual. A separate sample was initially designed for each target variable.

Companies were divided into two basic types of strata: certainty and noncertainty. Companies selected with certainty were:

- All refiners and gas plant operators.
- Companies doing business in four or more States.
- Companies accounting for 5 percent or more of the distillate or residual fuel oil volume for any target variable or particular energy use category sold in a State.
- Companies accounting for 5 percent or more of the kerosene volume sold in a State in an earlier EIA-821 survey.

- Augmented frame units, e.g., vessel bunkering, for which no attribute data were available.

Firms determined not to be selling distillate or residual fuel oil or kerosene were removed from the frame file. Volumes for nonrespondents to the EIA-863 who had reported in the previous frame survey or in a sample survey were imputed. The imputed nonrespondents and the noncertainty companies were stratified by sales volume for each target variable. Strata boundaries were determined using the Dalenius-Hodges procedures, allowing the number of strata and the strata boundaries to vary by State. Nonrespondents for whom no previous information was available were classified in a separate stratum and sampled with reduced probabilities of selection.

Neyman allocation was used to allocate the number of companies required for each strata to obtain the required levels of accuracy: a 2.5 percent coefficient of variation for residual fuel oil and a 5 percent coefficient of variation for distillate fuel oil. Sample selections were then performed simultaneously from the same random list for the five samples to produce a final linked sample of approximately 4,700 companies. This method reduced the total survey sample size while improving volume estimates. Selected companies were asked to report sales by end-use categories for distillate and residual fuel oil and kerosene.

Imputation and Estimation

Survey data gathered from the respondents may contain incomplete reporting, total nonresponse, or values that fail editing. Missing data are estimated, or implicitly imputed for, using the strata means and treated the same as reported data. The weighted estimate is defined as follows:

$$\hat{V} = \sum_h N_h \left(\sum_i W_{hi} V_{hi} / \sum_i W_{hi} \right)$$

where:

$\hat{V}$ = total estimated volume
$\sum_h$ = denotes summation over strata
N_h = stratum population for stratum h
$\sum_i$ = denotes summation over units within stratum h
V_{hi} = volume reported for unit i in stratum h
W_{hi} = weight attached to unit i in stratum h.

where: W_{hi} is inversely proportional to the probability of inclusion in the linked sample.

The degree of imputation by product and energy use at the U.S. total level ranged as follows for the 2002 EIA-821 data: distillate, 2.5 percent for railroad use to 23.1 percent for off-highway use; residual fuel oil, 0.1 percent for oil company use to 9.1 percent for industrial use; and kerosene, 3.8 percent for industrial use to 11.5 percent for residential use.

Collection Methods

The EIA-821 form was mailed in January 2002 to all companies selected for participation in the 2001 reference year survey. The completed form was due to EIA on March 4, 2002. A second request was sent by certified mail to nonrespondents approximately 1 month after the filing deadline. Follow-up telephone calls were made to collect outstanding data and to verify reported data. Late submissions and resubmissions were processed when received.

Data Processing

As EIA-821 forms were received, they were logged into an automated Survey Control File that maintains company identification and survey form status information for each company selected to participate in the survey. The data were reviewed manually, entered onto the computer files, and then processed through an automated edit program which detected missing data and outlying values. Data that failed the edits were resolved through telephone calls to the data reporters and corrections were entered onto the computer files. Preliminary estimates were generated and processed through a series of validation procedures to flag and rectify potential misreporting of data. Statistical reports, including publication tables, were produced using only acceptable and verified data.

Note 2: Reliability of the Data

Two types of errors are associated with data produced from a sample survey—-sampling errors and nonsampling errors. Sampling errors occur because the estimates are based on a sample rather than on a census. The particular sample used for the EIA-821 survey is one of a large number of samples of equal size which could have been selected from the sampling frame using the same sample design. Each of these samples would produce a different estimate. If the estimates were averaged over all possible samples, the result would be the same as the estimate derived from a census of the sampling frame. The sampling error is a measure of variability among the estimates from all possible samples and, thus, is a measure of the preci-

sion with which an estimate from a particular sample approximates the results of a census.

Nonsampling errors and possibly biases can arise from a number of sources: (1) inability to obtain information about all cases in the sample, (2) response errors, (3) differences in the interpretation of questions or definitions, (4) mistakes in recording or coding of the data obtained, and (5) other errors of collection, response, coverage, and estimation for missing data. Bias is the difference between the average of the estimates over all possible samples of the same size and design, and the true value being estimated. It is not possible to estimate bias using the results of one sample.

Data obtained from alternate sources are not subject to sampling errors, but may be subject to nonsampling errors, the magnitudes of which are unknown. Nonsampling errors for survey estimates and estimates adjusted to alternate sources cannot be determined, but attempts are made throughout survey processing to minimize this type of error.

Data in Tables 1 through 12 are based on survey data which are subject to sampling errors. Coefficients of variation, which are estimates of sampling errors, are presented for the retail target variables in the following table for the 2001 survey. The coefficients of variation (CV) were estimated by:

$$CV(\hat{V}) = \frac{\sqrt{VAR(\hat{V})}}{\hat{V}}$$

where:

$$VAR(\hat{V}) = \sum_h n_h \left(1 - \frac{n_h}{N_h}\right) S_h^2$$

$$S_h^2 = \frac{\sum_{i=1}^{n_h} W_i^2 V_i^2 + \bar{V}_h^2 \sum_{i=1}^{n_h} W_i^2 - 2\bar{V}_h \sum_{i=1}^{n_h} W_i^2 V_i}{n_h - 1}$$

$$\bar{V}_h = \frac{\sum_{i=1}^{n_h} W_i V_i}{\sum_{i=1}^{n_h} W_i}$$

$\hat{V}$ = total estimated volume,
N_h = stratum population for stratum h,
n_h = number of sample units in stratum h,
V_i = volume for unit i,
W_i = weight for unit i.

Response rates also offer some indication of the reliability and comprehensiveness of survey results. For the 2002 EIA-821 survey, the overall response rate (the number of submissions received, divided by the number of submissions solicited and expected, times 100) was 91.2 percent.

Coefficients of Variation for Sales of Fuel Oil, 2002

Geographic Area	Residential Distillate Fuel Oil	Non-Residential Retail Distillate Fuel Oil	Retail Residual Fuel Oil
U.S. Average	**1.9**	**0.6**	**0.1**
PAD District 1 Average	**2.1**	**0.9**	**0.1**
Subdistrict 1A Average	**2.4**	**1.2**	**0.1**
Connecticut	5.5	3.5	0.1
Maine	5.6	1.8	0.0
Massachusetts	3.9	2.5	0.1
New Hampshire	5.4	2.2	0.0
Rhode Island	4.2	2.6	0.0
Vermont	2.8	2.0	0.0
Subdistrict 1B Average	**3.6**	**1.9**	**0.0**
Delaware	3.3	1.1	0.0
District of Columbia	0.1	0.1	0.0
Maryland	5.0	2.3	0.0
New Jersey	5.1	3.3	0.0
New York	6.8	3.2	0.0
Pennsylvania	4.0	3.7	0.0
Subdistrict 1C Average	**3.1**	**1.2**	**0.1**
Florida	7.5	2.9	0.0
Georgia	10.9	1.6	0.0
North Carolina	5.9	2.6	0.4
South Carolina	9.4	3.4	0.0
Virginia	4.3	3.5	0.1
West Virginia	5.1	1.4	0.0
PAD District 2 Average	**3.3**	**0.9**	**0.1**
Illinois	7.8	5.9	0.0
Indiana	9.0	2.6	0.0
Iowa	17.4	2.4	0.9
Kansas	17.6	2.3	0.0
Kentucky	6.6	1.7	0.0
Michigan	6.0	1.9	0.0
Minnesota	6.0	1.9	0.1
Missouri	29.8	4.1	0.0
Nebraska	19.8	5.6	0.1
North Dakota	8.0	4.5	0.0
Ohio	9.1	2.0	0.0
Oklahoma	44.6	2.8	2.1
South Dakota	8.0	2.9	0.0
Tennessee	10.5	1.9	0.0
Wisconsin	8.8	5.4	0.0
PAD District 3 Average	**37.3**	**1.6**	**0.0**
Alabama	63.7	3.0	0.0
Arkansas	80.1	3.8	0.0
Louisiana	40.7	4.5	0.0
Mississippi	1.5	2.5	0.0
New Mexico	5.8	3.5	0.0
Texas	2.2	2.7	0.0
PAD District 4 Average	**6.0**	**0.9**	**0.0**
Colorado	7.2	1.8	0.0
Idaho	10.0	2.5	0.0
Montana	6.3	1.7	0.0
Utah	9.5	1.7	0.0
Wyoming	1.5	2.0	0.0
PAD District 5 Average	**5.3**	**1.7**	**0.1**
Alaska	5.2	1.8	0.0
Arizona	0.1	1.6	0.0
California	8.2	3.5	0.0
Hawaii	0.0	0.7	0.0
Nevada	0.0	1.4	0.1
Oregon	6.1	3.5	0.0
Washington	12.1	3.6	0.0

Note: Coefficients of variation that are less than 0.1 and greater than zero are displayed as 0.1.
Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 2002.

Note 3: Data Adjustments

Alternate Source Data

After all preliminary tabulations were verified, comparisons were made between the survey results and available alternate source data. The following energy use categories were replaced by alternate source data at the U.S., Petroleum Administration for Defense (PAD) district, or State level:

Tables 1 through 12:

On-Highway Diesel. Distillate fuel oil by State was calculated from the Federal Highway Administration data on highway use of special fuels. Of the 1998 through 2002 special fuels, more than 99 percent is diesel.

Tables 13 through 24:

The 2001 adjusted numbers have been revised since they were first published in the *Fuel Oil and Kerosene Sales* 2001. The revisions to the data were made to include new distillate and residual volumes for "Electric Power" and a new resisidual product supplied number. See Electric Power below for further explanation on how the data are calculated.

Electric Power. National-level distillate and residual fuel oil sales for electric power use were calculated from annual aggregations of data collected on the EIA-906, "Power Plant Reprot." Form EIA-906 utility and nonutility, NAICS 22 companies, consumption data was added to the stock change of distillate and residual, respectively. Allocations at the State level were based on the EIA-821 survey.

On-Highway Diesel. Distillate fuel oil by State was calculated from the Federal Highway Administration data on highway use of special fuels. Of the 1998 through 2002 special fuels, more than 99 percent is diesel.

1998 through 2002 Adjustments

Kerosene volumes in Tables 1 through 24 are adjusted at the national level to equal products supplied volumes as published in the "Detailed Statistics" section of the *Petroleum Supply Annual* (PSA). The 2002 survey resulted in 629,520 thousand gallons of kerosene at the national level. The products supplied volume at the national level for kerosene was 664,314 thousand gallons. Hence, the adjustment factor at the national level for 2002 was 1.06.

Volumes of distillate fuel oil in Tables 13 through 24 were adjusted at the PAD district level to equal products supplied volumes. The adjustment factors at the PAD district level for 2002 are as follows:

Distillate Fuel Oil

- PAD District 1: .94
- PAD District 2: .90
- PAD District 3: 1.12
- PAD District 4: .94
- PAD District 5: .84

For Tables 13 through 24, total sales at the PAD district level equal the products supplied volumes as reported in the PSA, 1998 through 2002. For example, the 2002 survey yielded a volume for distillate residential use in PAD District 2 of 594,109 thousand gallons. The total distillate volume for PAD District 2 was 5,801,754 from the survey, after subtracting the volume coming from alternate sources. The product supplied total distillate volume for PAD District 2 was 5,201,114 after removing alternate source volume. Hence, the adjusted 2002 estimate of distillate for residential use in PAD District 2 was (5,201,114/5,801,754) x 594,109 = 532,602. For distillate fuel oil in Tables 13 through 24, the PAD district adjustments were made to each State and product-use category except on-highway diesel use and electric utility use.

Volumes of residual fuel oil in Tables 13 through 24 were adjusted at the national level to equal the products supplied estimate. The 2002 survey yielded 10,361,615 thousand gallons of residual fuel oil, while the products supplied volume at the national level was 10,724,994 thousand gallons. Thus, the adjustment factor at the national level for 2002 was .98, after subtracting the volumes coming from alternate sources. For residual fuel oil, the adjustments were made to each State and energy use category except electric power.

Note 4: Energy Use Descriptions and Petroleum Product Definitions

Energy Use Descriptions

Residential. An energy-consuming sector that consists of living quarters for private households. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a variety of

other appliances. Sales to farmhouses are reported under "Farm" and sales to apartment buildings are reported under " Commercial."

Commercial. An energy-consuming sector that consists of service-providing facilities and equipment of nonmanufacturing businesses; Federal, State, and local governments; and other private and public organizations, such as religious, social, or fraternal groups. The commercial sector includes institutional living quarters. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking and running a wide variety of other equipment.

Industrial. An energy-consuming sector that consists of all facilities and equipment used for producing, processing, or assembling goods. The industrial sector encompasses the following types of activity: manufacturing and mining. Overall energy use in this sector is largely for process heat and cooling and powering machinery, with lesser amounts used for facility heating, air conditioning, and lighting. Fossil fuels are also used as raw material inputs to manufactured products.

Oil Company. An energy-consuming sector that consists of drilling companies, pipelines or other related oil companies not engaged in the selling of petroleum products. Includes fuel oil that was purchased or produced and used by company facilities for operation of drilling equipment, other field or refinery operations, and space heating at petroleum refineries, pipeline companies, and oil-drilling companies. Sales to other oil companies for field use are included, but sales for use as refinery charging stocks are excluded.

Farm. An energy-consuming sector that consists of establishments where the primary activity is growing crops and/or raising animals. Energy use by all facilities and equipment at these establishments is included, whether or not it is directly associated with growing crops and/or raising animals. Common types of energy-using equipment include tractors, irrigation pumps, crop dryers, smudge pots, and milking machines. Facility energy use encompasses all structures at the establishment, including the farm house.

Electric Power. An energy-consuming sector that consists of electricity only and combined heat and power(CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public--i.e., NAICS 22 plants. Volumes directly imported and used by the electric power companies are included.

Railroad. An energy-consuming sector that consists of all railroads for any use, including that used for heating buildings operated by railroads.

Vessel Bunkering. An energy-consuming sector that consists of commercial or private boats such as pleasure craft, fishing boats, tugboats, an ocean-going vessels, including vessels operated by oil companies. Excluded are volumes sold to the U. S. Armed Forces.

On-Highway Diesel. An energy-consuming sector that consists of motor vehicles: automobiles, trucks, and buses. Vehicles used in the marketing an distribution of petroleum products is also included.

Military. An energy-consuming sector that consists of the U.S. Armed Forces, Defense Energy Support Center (DESC), and all branches of the Department of Defense(DOD).

Off-Highway. An energy-consuming sector that consist of:

1. **Construction.** An energy-consuming sub sector that consist of all facilities and equipment including earthmoving equipment, cranes, generators, air compressors, etc.

2. **Other.** An energy-consuming sub sector that consists of all off-highway uses other that construction. Includes logging, scrape and junk yards, and refrigeration units on trucks.

All Other Uses. Sales for all other energy-consuming sectors not included elsewhere.

Definitions of Petroleum Products and Other Related Terms

ASTM. The acronym for the American Society for Testing and Materials.

Distillate Fuel Oil. A general classification for one of the petroleum fractions produced in conventional distillation operations. It includes diesel fuels and fuel oils. Products known as No. 1, No. 2, and No. 4 diesel fuel are used in on-highway diesel engines, such as those in trucks and automobiles, as well as off-highway engines, such as those in railroad locomotives and agricultural machinery. Products known as No. 1, No. 2, and No. 4 fuel oils are used primarily for space heating and electric power generation.

1. **No. 1 Distillate.** A light petroleum distillate that can be used as either a diesel fuels or a fuel oil.

    a. **No. 1 Diesel Fuel.** A light distillate fuel oil that has distillation temperatures of 550 degrees Fahrenheit at the 90-percent point and meets the specifications defined in

ASTM specification D 975. It is used in high-speed diesel engines generally operated under frequent speed and load changes, such as those in city buses and similar vehicles.

b. **No. 1 Fuel Oil.** A light distillate fuel oil that has distillation temperatures of 400 degrees Fahrenheit at the 10-percent recovery point and 550 degrees Fahrenheit at the 90-percent point and meets the specifications defined in ASTM Specification D 396. It is used primarily as fuel for portable outdoor stoves and portable outdoor heaters.

2. **No. 2 Distillate.** A petroleum distillate that can be used as either a diesel fuel or a fuel oil.

   a. **No. 2 Diesel Fuel.** A fuel that has distillation temperatures of 400 degrees Fahrenheit at the 10-percent recovery point and 640 degrees Fahrenheit at the 90-percent recovery point and meets the specifications defined in ASTM Specification D 975. It is used in high speed diesel engines that are generally operated under uniform speed and load conditions such as those in railroads locomotives, trucks, and automobiles.

      (1) **Low Sulfur No. 2 Diesel Fuel.** No. 2 diesel fuel that has a sulfur level no higher than 0.05 percent by weight. It is used primarily in motor vehicle diesel engines for on-highway use.

      (2) **High Sulfur No. 2 Diesel Fuel.** No. 2 diesel fuel that has a sulfur level above 0.05 percent by weight.

   b. **No. 2 Fuel Oil (Heating Oil).** A distillate fuel oil that has distillation temperatures of 400 degrees Fahrenheit at the 10-percent recovery point and 640 degrees Fahrenheit at the 90-percent recovery point and meets the specification defined in ASTM specification D 396. It is used in atomizing type burners for domestic heating or for moderate capacity commercial/industrial burner units.

3. **No. 4 Fuel.** A distillate fuel oil made by blending distillate fuel oil and residual fuel oil stocks. It conforms with ASTM Specification D 396 or Federal Specification VV-F-815C and is used extensively in industrial plants and in commercial burner installations that are not equipped with preheating facilities. It also includes No. 4 diesel fuel used for low-and medium-speed diesel engines and conforms to ASTM Specification D 975.

NOTE: Respondents to the EIA-821 survey were instructed to report all volumes in accordance with what the product was sold as, regardless of the actual specifications of that product. For example, if a No. 2 distillate was sold as a heating oil or fuel oil, the volume would be reported in the category "No. 2 Fuel Oil" even if the product conformed to the higher specifications of a diesel fuel.

Kerosene. A light petroleum distillate that is used in space heater, cook stoves, an water heaters and is suitable for use as a light source when burned in wick-fed lamps. Kerosene has a maximum distillation temperature of 400 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 No. 1-k and No. 2-k, the two grades of kerosene called range or stove oil, which have properties similar to those of No. 1 fuel oil.

PAD District. Petroleum Administration for Defense Districts

PAD District 1 (East Coast):

Subdistrict 1A (New England): Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont
Subdistrict 1B (Central Atlantic): Delaware, District of Columbia, Maryland, New Jersey, New York, and Pennsylvania
Subdistrict 1C (Lower Atlantic): Florida, Georgia, North Carolina, South Carolina, Virginia, and West Virginia

PAD District 2 (Midwest):

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

PAD District 3 (Gulf Coast):

Alabama, Arkansas, Louisiana, Mississippi, New Mexico, and Texas

PAD District 4 (Rocky Mountain):

Colorado, Idaho, Montana, Utah, and Wyoming

PAD District 5 (West Coast):

Alaska, Arizona, California, Hawaii, Nevada, Oregon, and Washington

Residual Fuel Oils. A general classification for the heavier oils, know as No. 5 and No. 6 fuel oils that remain after the distillate fuel oils an lighter hydrocarbons are distilled away in refinery operations. It conforms to ASTM Specification D 396 and D 975 and Federal Specification VV-F-815C. No. 5, a residual fuel oil of medium viscosity, is also know as Navy Special an is defined in Military Specification MIL-F859E, including Amendment 2 (NATO Symbol F-77). It is used in steam-powered vessels in government service and inshore power plants. No. 6 fuel oil includes Bunker C fuel oil and is used for the production of electric power,space heating, vessel bunkering, and various industrial purposes.

United States. The United States includes the 50 states and the District of Columbia.

Appendix B

Form EIA-821: Annual Fuel Oil and Kerosene Sales Report

Appendix B

U.S. DEPARTMENT OF ENERGY
Energy Information Administration

Form Approved
OMB Number: 1905-0174
Form Expires: 11/30/03

EIA-821: ANNUAL FUEL OIL AND KEROSENE SALES REPORT

This report is mandatory under Public Law 93-275. Title 18 U.S.C. 1001 makes it a criminal offense for any person knowingly and willingly to make to any Agency or Department of the United States any false, fictitious, or fraudulent statements as to any matter within its jurisdiction. For the provisions concerning the confidentiality of information and sanctions, see Sections 8 and 9 of the Instructions.

PART I. IDENTIFICATION DATA

For assistance in completing this form call 1-800-592-2299

Provide Corrections to Company Name, Address, and Contact Information in Items 1-8

1. Company Name

2. Street

3. P.O. Box / RFD

4. City 5. State 6. Zip Code

7. Name of Contact Person

8. Contact Information
   a. Telephone Number - -
   b. Fax Number - -
   c. Email Address _____

9. Reference Year **2002**

10. Type of Report (*Check One*)
(1) ☐ Original (2) ☐ Resubmission

11. The Number of States for Which You Are Reporting

12. Which of the following best describes this firm at the end of 2002?

a. ☐ In operation - Sales include petroleum products — Skip to and complete items 22-25 and Part II

b. (1) ☐ Sold or Merged
   (2) ☐ Leased
   } Complete items 13 to 25, and Part II for that portion of 2002 in which the firm was active under your ownership and control

c. ☐ Permanently ceased operation — Complete item 13, then skip to and complete items 22-25 and Part II for the portion of 2002 in which the firm was active under your ownership and control

d. ☐ Subsidiary of another
e. ☐ Commissioned Agent
   } Complete items 13 to 25, and Part II for that portion of 2002 in which the firm was active under your ownership and control

f. ☐ Not in petroleum business — Skip to and complete items 22-25

13. Effective Date of Status Change
Month Day Year

14. Name of Company Sold to / Leased to / Merged into / Subsidiary of / Agent for:

15. Name of Contact Person

16. Contact's Telephone Number
- -

17. Street

18. PO Box / RFD

19. City 20. State 21. Zip Code

PREPARED BY: *Check appropriate box.* If preparer is different from contact person, complete lines 24 and 25.

22. ☐ Preparer same as contact person shown on label

23. Date

24. ☐ Preparer's Name

25. Preparer's Telephone number

Page 1

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Name of Firm Reporting | DOE ID Number | Reference Year **2002** | Page_____ of _____

PART II. TOTAL SALES DURING THE REFERENCE YEAR. (READ PAGES 2-4 OF INSTRUCTIONS CAREFULLY)

Line No.	Type of Fuel and Use	States of Destination (*Enter* STANDARD ABBREVIATIONS)
	Sold directly to consumers for **Kerosene** (*Report in Actual Gallons*)	
1	Residential Use (Non-Farm):	
2	Commercial Use:	
3	Industrial Use:	
4	Farm Use:	
5	All Other Uses (*Include own company use*):	
6	Sold to Dealers, Resellers, and Refiners:	
7	**Total Kerosene (Add Lines 1 thru 6)**	
	Sold directly to consumers for **Distillate Fuel Oil** (*Report in Actual Gallons*)	
	Residential Use (Non-Farm):	
8	No. 1	
9	No. 2	
	Commercial Use (See Reference Guide):	*Report sales of Low Sulfur Diesel to automobiles, trucks, buses, and school buses on line 28 On-highway Diesel Use with the exception of government vehicles which should be reported on line 12.*
10	No. 1	
11	No. 2 Fuel Oil	
12	No. 2 Diesel ≤ .05% Sulfur, Low	
13	No. 2 Diesel > .05% Sulfur, High	
14	No. 4	
	Industrial Use (Manufacturing and Mining):	
15	No. 1	
16	No. 2 Fuel Oil	
17	No. 2 Diesel ≤ .05% Sulfur, Low	
18	No. 2 Diesel > .05% Sulfur, High	
19	No. 4	
20	Oil Company Use (Drilling and Own Company Refining):	
21	Railroad Use:	
22	Vessel Bunkering (Shipping and Boating):	

EIA-821 (12-02)

Name of Firm Reporting | DOE ID Number | Reference Year **2002** | Page_____ of_____

PART II. TOTAL SALES DURING THE REFERENCE YEAR. (READ PAGES 2-4 OF INSTRUCTIONS CAREFULLY)

Line No.	Type of Fuel and Use	States of Destination (*Enter* STANDARD ABBREVIATION)
	Distillate Fuel Oil--Continued (*Report in Actual Gallons*)	
	Military Use:	
23	Diesel	
24	Other Distillate	
25	Electric Power Use (Electric utility and Nonutility power producers):	
	Farm Use:	
26	Diesel	
27	Other Distillate	
28	**On-highway Diesel Use:**	
	Off-highway Use:	
29	Construction	
30	Other (Specify e.g., Logging)_____	
31	All Other Uses (Specify):_____	
32	Sold to Dealers, Resellers, and Refiners:	
33	**Total Distillate (Add Lines 8 thru 32)**	
	Residual Fuel Oil - Include No.5 and No. 6 (*Report in Actual Gallons*)	
	Sold directly to consumers for	
34	Commercial Use (Nonmanufacturing):	
35	Industrial Use (Manufacturing and Mining):	
36	Oil Company Use (Drilling and Own Company Refining):	
37	Railroad Use (Include Volumes on line 41):	
38	Vessel Bunkering:	
39	Military Use:	
40	Electric Power Use (Electric utility and Nonutility power producers):	
41	All Other Uses (Specify):_____	
42	Sold to Dealers, Resellers, and Refiners:	
43	**Total Residual (Add Lines 34 thru 42)**	

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Name of Firm Reporting | DOE ID Number | Reference Year **2002** | Page_____ of_____

PART II. TOTAL SALES DURING THE REFERENCE YEAR. (READ PAGES 2-4 OF INSTRUCTIONS CAREFULLY)

Line No.	Type of Fuel and Use	States of Destination (*Enter* STANDARD ABBREVIATIONS)
	Motor Gasoline -- Include Gasohol (*Report in Actual Gallons*)	
	Conventional (including Oxygenated) Motor Gasoline	
44C	Sold directly to the Ultimate Consumer (Include All grades of Gasoline - Exclude No. 2 Diesel and Aviation Gasoline):	
45C	Sold to Dealers, Resellers, and Refiners (Include Rack and DTW Sales):	
46C	**Total Conventional Motor Gasoline (Add Lines 44C and 45C)**	
	Reformulated Motor Gasoline	
44R	Sold directly to the Ultimate Consumer (Include All grades of Gasoline - Exclude No. 2 Diesel and Aviation Gasoline):	
45R	Sold to Dealers, Resellers, and Refiners (Include Rack and DTW Sales):	
46R	**Total Reformulated Motor Gasoline (Add Lines 44R and 45R)**	

Propane (*Report in Actual Gallons*)

47 Delivered Residential Propane:

48 Sold to Customers for All Other End Uses:

49 Sold to Dealers, Resellers, and Refiners:

50 **Total Propane (Add Lines 47 thru 49)**

51 Does this firm sell any of these petroleum products? *Check boxes for all that you sell.*

a. ☐ No. 1 Distillate b. ☐ Crude Oil c. ☐ Other LPG d. ☐ No. 4 Fuel Oil

e. ☐ Aviation Gasoline f. ☐ Jet Fuel g. ☐ Other:_____ *(Specify)*

52 Does this firm sell and/or use propane for on-highway transportation use? *Check appropriate box(es).*

a. ☐ Sell b. ☐ Use c. ☐ No

53 Does this firm currently sell (or has it ever sold) distillate fuel oil to railroad companies?

a. ☐ Yes b. ☐ No

Send the completed form to: **U.S. Department of Energy**
Energy Information Administration (EIA-821)
P.O. Box 833
Merrifield, VA. 22116-0833

or telefax completed form by calling: **1(703) 676-7514, Attn: EIA-821**

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