Fuel Oil and Kerosene Sales 2001

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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 2001* 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.

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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 2001 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 2001.

NOTE: "Electric Power" has replaced "Electric Utility" on the 2001 EIA-821 Annual Fuel Oil and Kerosene Sales Report to ensure that products sold to/used by both utility and nonutility power producers are included. The term "Electric Power" has replaced "Electric Utility" throughout this publication. The data from 1997 through 2000 in Tables 1 through 12, and data from 1997 through 1999 in Tables 13 through 24 have not been changed. The 2000 adjusted numbers in Tables 13 through 24 have been revised since they were first published in the Fuel Oil and Kerosene Sales 2000. The revisions to the data were made to include the nonutility data in addition to the electric utility information to produce the new volume for "Electric Power". See "Technical Note 3" in Appendix A for further 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, lowsulfur 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 trans-

- portation 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 II) may make retail sales into Pennsylvania
- (PAD District IB) and/or West Virginia (PAD District IC).
- Drawdowns or buildups in stocks will cause volumes supplied to differ from sales volumes.

Highlights

Sales of Fuel Oil and Kerosene in 2001

Total distillate sales increased for the tenth consecutive year to reach an all-time high of 59.9 billion gallons. That simple statement could lead to the conclusion that distillate fuel oil sales were largely unaffected by the slowdown in the economy, the mild winter, and the tragic events of September 11, 2001. However, the underlying reality differs considerably from such an optimistic view. Even though total sales did increase, both the magnitude of the increase (310 million gallons) and the percent change (0.52 percent) were the smallest of the past decade.

Sales of residual fuel oil, buoyed by substantial fuel switching during the first several months of the year, increased by nearly 400 million gallons (3.0 percent) to a total of 13.6 billion gallons, the highest level of sales since 1998. Because of the unusual circumstances in fuel switching, the increase only temporarily reversed the long-term downward trend in demand for residual fuel oil. The increase in sales during 2001 constitutes the first increase in sales and the highest total amount of residual fuel oil since 1998. Total sales of kerosene increased for the first time in three years. Sales rose by nearly 73 million gallons (7.0 percent) from the level set in 2000.

As a consequence of the relatively small increase in distillate sales combined with sizable increases in the sales of residual fuel oil and kerosene, distillate sales accounted for a slightly smaller share of the overall fuel oil market in 2001 (80.3 percent) as compared to 2000 (80.7 percent). The shift in the proportion of total fuel oil sales is the first time since 1998 that distillate sales did not gain as a percent of total sales. Residual fuel oil sales rose to 18.2 percent of total fuel oil sales. Kerosene accounted for the remaining 1.5 percent of total sales.

Distillate Fuel Oil

As they have done for the past decade, beginning in 1992, sales of distillates surpassed the previous all-time high set the preceding year. However, the magnitude of the increase was the smallest of the past decade and represented 19.4 percent of the average increase of the previous 9 years and only about 15.3 percent of the increase during 2000. Although a number of factors influenced the sales of distillate fuels, three forces in particular combined to restrain sales.

Table HL1. Volume Distribution of Distillate and Residual Fuel Oils, 2000 and 2001

	Distilla	te 2001	Distilla	te 2000	Residual 2001		Residual 2000	
Energy Use	Volume (million gallons)	Percent Share	Volume (million gallons)	Percent Share	Volume (million gallons)	Percent Share	Volume (million gallons)	Percent Share
Residential	6,643	11.1	6,830	11.5	_	_	_	_
Commercial	3,718	6.2	3,706	6.2	648	4.8	664	5.0
Industrial	2,466	4.1	2,331	3.9	1,747	12.8	1,585	12.0
Oil Company	748	1.2	686	1.2	132	1.0	154	1.2
Farm	3,584	6.0	3,455	5.8	_	_	_	_
Electric Power	1,344	2.2	1,015	1.7	5,647	41.5	4,363	33.0
Railroad	3,040	5.1	3,291	5.5	_	_	_	_
Vessel Bunkering	2,044	3.4	2,261	3.8	5,409	39.7	6,410	48.5
On-Highway	33,215	55.4	33,130	55.6	_	_	_	_
Military	401	0.7	306	0.5	20	0.1	28	0.2
Off-Highway	2,708	4.5	2,589	4.3	_	_	_	_
Other	0	0.0	0	0.0	5	0.0	7	0.1
Total	60,120		59,601		13,609		13,211	

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.

¹The average increase during the period 1992-2000 was 1.6 billion gallons. Distillate sales increased by more than 2.0 billion gallons in 1999 and 2000.

First, the winter in 2001 was both milder than the winter of 2000 and milder than average. The winter as measured by heating degree-days was 5.3 percent warmer than the winter of 2000 and 7.7 percent warmer than normal. Only in the West was the winter slightly colder than the year before and even there, the winter was still warmer than average. The winter in the northeast section of the country, where most of the home heating oil is consumed, was considerably warmer than normal and consequently, sales to the residential sector were down 2.7 percent or more than 187 million gallons compared to 2000.

Second, the slowdown in the economy negatively affected energy demand in general. Total energy consumption in the United States declined by 2.3 percent from 98.775 quads to 96.517 quads during the year.³ The overall decline was partially offset by fuel switching that resulted from the unusually high natural gas prices during the first several months of 2001. The large price differences between natural gas and oil products gave customers with the ability to fuel switch the opportunity to curtail consumption of natural gas, and to switch to oil for heat, industrial processing and electric power generation. Distillate sales to the industrial and electric power sectors increased as users acquired distillate for use in place of natural gas or to blend with residual fuel oil to improve residual fuel quality. (Please see the following discussion on residual fuel oil for details.)

Third, the aftermath of the terrorist attacks on September 11, 2001 combined with the downturn in the economy to reduce demand for distillate fuels in the transportation sector. Although sales of on-highway diesel increased, the magnitude of the increase was far smaller than typical and was more than offset by declining sales of bunker fuel and to the railroads.

Aside from the immediate and profound impact of the events of September 11, 2001 on airline transportation fuels which are not discussed in this report, the impact of those tragic events on fuel use by other modes of transportation and in other sectors of the

economy are more difficult to measure. Monthly data collected by the Bureau of Transportation Statistics show that declines in year-to-year comparisons of the vehicle miles traveled (VMT) took place during four months in 2001. Although the data confirm that VMT fell in September, they also show that the other three monthly declines took place during the first half of the year, thus indicating the weakened state of the economy. Reflecting the precipitous decline in air travel following the attacks, VMT correspondingly increased by 2.7 percent during the fourth quarter and by 4.2 percent for the month of December, the largest monthly increase since November 1999.

Unlike 2000, when distillate sales benefited from a robust national economy, economic slowed considerably during 2001. Gross domestic product (GDP) increased by only 1.2 percent compared to a gain of 4.1 percent in 2000, and unemployment rose from 4.0 percent to 4.8 percent.⁵

Sales of distillate fuels to the transportation sector continued to dominate overall distillate fuel oil sales increase in the 4th quarter of 2001. However, as a result of declines in the sales of distillates for use as bunker fuel and in railroads, and the small increase in sales of on-highway diesel fuel, sales to the transportation sector accounted for approximately 64 percent of total distillate sales compared to about 65 percent in 2000. Although sales of on-highway diesel increased by nearly 86 million gallons, that small increase (0.3 percent) was less than one tenth the size of the increase of the previous year and was overshadowed by declines in sales of bunker fuel and sales to railroads. Sales of railroad diesel slipped by more than 250 million gallons (7.6 percent) and sales of distillate bunker fuels dropped by 217 million gallons (9.6 percent).

Sales to the residential sector were adversely affected by milder than normal winter conditions. Although the winter was only 5.3 percent warmer than that of the previous year, temperatures in the North East, Middle Atlantic and the upper Midwest, were all considerably higher than was the case in 2000 and higher

²For heating and cooling purposes, records are kept on a daily basis determining the "degree-days." Degree-days are a measure of the difference between the average of the high and low temperatures for a given location and 65 degrees F. If the average temperature is less than 65 F, the resulting difference is the heating degree-days (an average temperature of 60 results in 5 heating degree-days). If the average temperature exceeds 65 degrees, the resulting difference is the cooling degree-days (an average temperature of 70 results in 5 cooling degree-days). Degree-days are accumulated over the course of a year (heating degree-days from July through June and cooling degree-days from January through December) to provide a measure against which fuel providers, utilities, and other energy users can plan for coming needs

³One quad equals one quadrillion (a one followed by fifteen zeros) British thermal units (Btu), source EIA, MER May 2002, Table 2.1

⁴Federal Highway Administration, Annual Vehicle Distance Traveled in Miles and Related Data 2001 Table VM-1, and Traffic Volume Trends, April 2002. Table 1 & 9B

⁵Economic Indicators, April 2002, Washington D.C. U.S. government Printing Office, p 12.

still than normal. Seasonal averages ranged from nearly 7 to more than 9 percent warmer than normal. Consequently, heating oil use fell by more than 187 million gallons (2.7 percent).

The relative weakness of the economy, coupled with the milder than normal winter also affected growth of distillate sales to the commercial sector of the market. Although sales to that sector did increase, the amount of the increase was only about 0.3 percent compared to increases of 11.0 percent in 2000 and 3.2 percent in 1999.

Despite a decline in overall energy use in the industrial sector, sales of distillate fuel oil to industrial consumers and for electric power generation showed robust increases. Sales to the industrial sector increased by more than 135 million gallons (5.8 percent) and sales to utilities surged, increasing by more than 328 million gallons (an increase of 32.4 percent).

Both the apparent contradiction in the industrial sector and the sharp upturn in the electric power sector are in large measure an indirect result of unusually high natural gas prices during the final weeks of 2000 and during much of the first half of 2001. The differential between the price of natural gas and that of residual fuel oil resulted in significant switching from natural gas to oil particularly during the period beginning in December 2000 and lasting into March 2001. While the greatest impact was on residual fuel oil (see the following section on residual fuel oil for details) distillate No. 2 was also in demand to blend with residual fuel oil as cutter stock to upgrade poor quality high viscous product, to blend to lower sulfur content and reduce emissions, and even for some short-term use in peaking units.

In 2001, weather, the ever present and most dominant factor in agriculture, favored some crops to the extent that new records and near record harvests were achieved. The largest soybean crop and the fourth largest corn crop in history helped overcome the poor wheat harvest and propel distillate sales to the agriculture sector to the highest level since 1996 increasing by 129 million gallons (3.7 percent).⁷

Offsetting the slowing of the economy and the growth in unemployment, low interest rates contributed to robust growth in residential construction, new housing starts, and other construction in the private sector, more than offset declining construction in the commercial sector. Sales to the off-highway and the construction sector also benefited from the number of highway projects undertaken during the course of the year and consequently, sales to the off-highway and construction sector increased by 119 million gallons (4.6 percent).

Oil company direct use of distillate fuel oil increased sharply for the second consecutive year as companies responded to higher prices by increasing exploration, development and other activities requiring fuel usage. One measure of the increased activity is the number of drilling rigs in operation, and driven by the improved crude oil prices and sharply higher natural gas prices during the first several months of the year, the monthly average number of rotary rigs in operation during 2001 was 1,497 an increase of 18.9 percent. The increase in drilling rigs helped boost distillate fuel oil for direct oil company use by more than 61 million gallons (8.9 percent). However, despite the impressive increase for the year as a whole, most of the additional use of oil, (as measured by the number of drilling rigs) took place during the first half of the year. As prices moderated, rig counts fell from a high of 1,698 reached in February to 1,164 in December.

On a regional basis, the warmer than normal winter contributed to declining sales of home heating oil. Consequently, distillate sales to the residential sector decreased throughout PAD District I, II and IV.9 Sales in PAD District I, (the Atlantic Coast) fell the most, decreasing by nearly 151 million gallons (2.6 percent). Sales of home heating oil fell throughout the region, falling by 18 million gallons in New England, 89 million gallons in the Middle Atlantic region, and 43 million gallons in the southern portion of the region. Sales in PAD District II fell approximately 45 million gallons and sales in PAD District IV (the Rocky Mountains) were down slightly by 2 million gallons. Sales increased in PAD District III (the Gulf Coast) and PAD District V (the Pacific Coast). However, the increases of 1 million gallons in PAD District III and 10 million

⁶In New England 6.2 percent warmer than 2000 and 8.5 percent warmer than normal; in the Middle Atlantic, 8.3 percent warmer than 2000 and 9.3 percent warmer than normal; in the East North Central, 7.3 percent warmer than 2000 and 9.3 percent warmer than normal; in the West North Central 4.2 percent warmer than 2000 and 6.8 percent warmer than normal. Source National Climate Data Center.

Department of Agriculture, National Agricultural Statistics Service, Statistical Highlights 2001: Overview, U.S. Crop Summary, p 4-5.

⁸Baker Hughes, North American Rig Counts, U.S. Annual Averages by State 1987-2001, (http://www.bakerhughes.com/investor/rig/rig_na.htm). See also, EIA *Monthly Energy Review*, Table 5.1.

⁹The U.S. is divided into 5 Petroleum Administration for Defense Districts (PAD District I, East Coast, District II, Midwest, District III, Gulf Coast, District IV, Rocky Mountains, and District V, Pacific Coast. PAD District I is broken into three subdivisions: Subdistrict IA, New England, Subdistrict IB, Middle Atlantic, and Subdistrict IC, Southeast.

gallons in PAD District V were small in comparison to the magnitude of the loss in sales elsewhere.

Nationally, sales to the commercial sector increased slightly, up 11 million gallons (0.3 percent). Although sales increased in most areas of the country, in the New England section of PAD District I and in PAD District III sales dropped. To some extent, the declines reflect the warmer than normal winter, and to some extent changing fuel use patterns.

Overall sales of distillate to the industrial sector increased by 5.8 percent despite declines in industrial production, as mentioned above, this apparent contradiction results from increased sales of both distillate and residual fuel oils as industrial consumers switched from high priced natural gas to oil for much of the first half of the year. With the exception of PAD District III, (the Gulf Coast,) sales of distillate increased throughout the U.S. Sales increased most in the Southeastern section of PAD District I, in Pad District II, and in PAD District IV, the Rocky Mountain states.

Distillate sales to the military increased sharply during 2001. Sales increased by nearly one-third (96 million gallons). However, on a regional basis sales results were mixed. Sales decreased in PAD District II and the Middle Atlantic and Southeastern portions of PAD District I. Although sales increased in the Northeastern section of PAD District I, and in PAD Districts III, IV, and V, by far the largest increase took place in PAD District III along the Gulf Coast where sales increased by more than 97 million gallons.

Sales to the agricultural sector increased for the U.S. as a whole by 3.7 percent. Although increases in some of the principal crop-raising states were small, and in a few of the farm States declined somewhat, nonetheless sales of distillates for agricultural uses in the principal crop-raising sector of the country, PAD District II, were up nearly 93 million gallons (5.4 percent). Elsewhere, sales either rose or fell by relatively small amounts. Sales increased somewhat in New England, substantially more in the Southeast and slightly in the Gulf Coast. Sales fell in the Middle Atlantic and Rocky Mountains, and were essentially unchanged in the Pacific region.

Distillate sales to the electric power sector surged in 2001 as electric power producers reacted to exceptionally high prices of natural gas in late 2000 and through the first half of 2001 to make unusually heavy purchases of fuel oil as they switched to oil from natural gas. Sales of distillate were used to blend with residual fuel oil either to lower sulfur content in order to meet emission standards, to upgrade low quality fuel oil by improving viscosity, or to use as peaking fuel. Although sales increased sharply throughout the five PAD Districts, including the three sub-regions of PAD District I, demand increased the most in the Southeastern portion of PAD District I and along the Gulf Coast in PAD District III.

Residual Fuel Oil

For over a decade, a number of factors have contributed to a sustained and general decline in the production of and demand for residual fuel oil. Among the principle reasons are: changing crude oil specifications, increased refinery sophistication resulting in increased production of gasoline and distillate while reducing the capacity to refine heavy fuel oil, environmental constraints and restrictions on fuel oil use, and availability of abundant relatively inexpensive natural gas.¹⁰

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 for 2001 leads to the conclusion that sales increased as the result of unusual circumstances in the market, not a reversal of the long-term downward trend. As mentioned above, the unprecedented level of prices for natural gas led to a surge of demand in the industrial and electric power sectors of sufficient magnitude to overcome losses in other areas of the market and result in an overall gain for residual fuels sales in general.

With the exception of sales to the industrial and electric power sectors, the downward trend in residual fuel oil continued. Nonetheless, sales increases in those two sectors were of such magnitude that despite losses in other sectors totaling more than 1 billion gallons, overall sales of residual fuel oil increased by more than 398 million gallons (3.0 percent). The total of 13.6 billion gallons was the largest since 1998 when sales to the electric power sector were also unusually high.

¹⁰Due to the divestiture of many 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.

Over the past several years, sales of residual fuel oil have fluctuated widely in response to weather, prices of competing fuels, changing practices in the electric power sector, and environmental constraints. In 2001, the primary reason for the increase in sales came about earlier in the year when natural gas prices soared and led to a resurgence of residual fuel oil demand as industrial consumers and electric power generators with the ability to use residual fuel oil switched from natural gas to fuel oil in large numbers. The prolonged period of higher natural gas prices opened a window of opportunity for residual fuel to compete favorably and it resulted in as much as 200,000 barrels per day (b/d) of fuel switching.

Sales to the industrial sector increased throughout the U.S. except in the Southeast region of PAD District I, where sales dropped slightly (by 2.0 percent). The largest increase in industrial sales occurred in the New England region of PAD District I where sales increased by one third (nearly 119 million gallons.)

With the exception of the New England region of PAD District I, sales to the electric power sector increased throughout the country. By far, the largest increases in sales for electric power generation occurred in the Mid Atlantic and Southeast sub-districts of PAD District I. Sales surged by 424 million gallons (48.2 percent) in the Mid Atlantic, and by 399 million gallons in the Southeast. Natural gas prices reached the highest levels in the West in PAD District V as the power crisis gripped California. Electric generation was pushed to its limits. Anecdotal evidence points to residual fuel oil being delivered to California, and Arizona by rail from the Gulf Coast, by ship from the Orient, and even by truck to supply fuel to plants because of constraints on the supply of natural gas and in efforts to control costs. Consequently, sales of residual fuel oil to the electric power sector in PAD District V increased by 100 million gallons (22.6 percent). 12

The increase in total sales of residual fuel oil, dominated by sales for the electric power sector, should be

viewed in the context of the long-term decline in sales that resulted in a drop in sales of approximately 40 percent between 1987 and 2000. Unusual conditions such as extremes of weather or price volatility of fuel oil, natural gas, or other competing fuels may result in significant short-term increases. These increases may occur in regional or even national sales of residual fuel to the electric power market in any given year; for example those that occurred in 2001 or earlier in 1998 are aberrations and are unlikely to be sustained even in the near-term. Nationally, as new power plants come on line, most will be gas fired reducing demand for residual fuel oil.

Unlike the upturn in sales that occurred during 2001, the drop in sales of residual fuel oil during 2000 fits the well-established long-term trend of declining sales of residual fuel oil. Overall, sales of residual fuel will continue to shrink, as new supplies of natural gas such as Sable Island take away sales. Nonetheless, residual fuel oil will likely remain an important niche market, serving as back-up fuel, blending stock, safety valve, and hedging tool in the electric power market.

Although sales for direct use by oil companies fell by 13.9 percent nationally, that figure is somewhat misleading. Sales were actually up in PAD Districts I and II, but plunged in PAD District V. Although not often viewed as a major oil production center, California ranks fourth in national oil production. Much of the oil is low gravity, highly viscous and requires steam flooding for maximum production. The California electricity crisis not only curtailed refinery production and pipeline deliveries, but also adversely affected the amount of power available for steam production and hence crude oil production. ¹⁵

With the exceptions of PAD Districts II and V, sales of bunker fuel appear to have dropped sharply, plunging by just over 1 billion gallons (15.6) percent). However, the apparent drop in sales results from reporting errors in the past that included sales for resale along with actual bunker sales data.

¹¹In 1998, sales to electric utilities surged by more than 1.8 billion gallons driven by the unusually low prices and reduced hydroelectric power generation. Initially in 1999, the build-up of storage that resulted from the unusually heavy purchases by utilities especially late in 1998 dampened demand. Demand was further curtailed as the result of both another warmer than normal winter and a summer that while warmer than normal, was considerably milder in most areas of the country than the summer of 1998 and thus reduced the demand to meet summer peaks.

¹²Stringent emission and fuel quality specifications in effect in California make the burning of residual fuel oil particularly difficult. Utilities sold off most of their inventories of residual fuel oil before the end of the 1990s. Consequently, product had to be transported to plants in the region that had dual fuel capabilities.

¹³ For example, the outage of several nuclear plants that boosted sales in the New England regional market in 1997.

¹⁴ For example, the window of opportunity for fuel switching was at its peak from December 2000 through March 2001. Thereafter, the price differential narrowed considerably through the second quarter and with the exception of high sulfur fuel was essentially closed by the end of June. By midsummer, the price differential between natural gas and residual fuel oil had reversed to once again favor natural gas over oil.

¹⁵ See *Platt's Oil Price Report*, Volume 79 various issues.

Overall, total sales to the commercial sector declined by 16 million gallons (2.5 percent). However, on a regional basis, sales fell only in portions of PAD District I; in the New England, sales fell by 28 million gallons (24.5 percent) and in the Middle Atlantic 9 million gallons (1.9 percent).

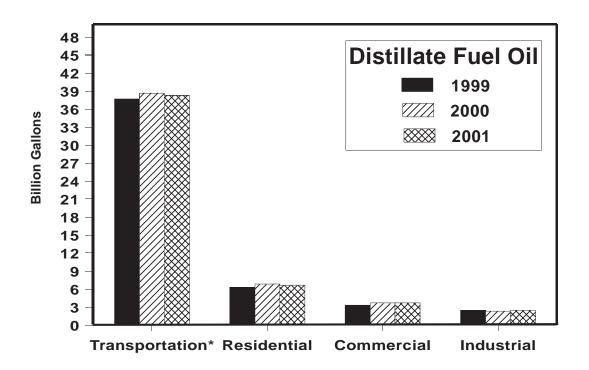
The downward trend in sales of residual fuel oil to the military continued during 2001. On a regional basis, sales fell in PAD District III, PAD District V, and the New England and southern portion of PAD District I. Sales increased slightly in the Middle Atlantic portion of PAD District I and more sharply in PAD Districts II and V.

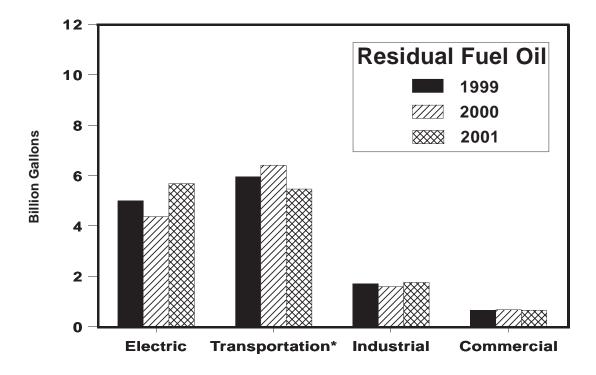
Kerosene

Reversing the declines of both 2000 and 1999, kerosene sales increased gaining 7.0 percent or 72.9 million gallons to reach a total of 1.1 billion gallons. Despite such a sizeable increase, total sales of kerosene remained well below the peak level of 1.2 billion gallons reached in 1999. For the first time since 1998, sales of kerosene increased in all major sectors. Sales to the industrial sector increased the most, by approximately 62.5 percent or 54 million gallons. Sales to the commercial sector increased by 6.0 percent or more than 13 million gallons. The next largest increase of 17.5 percent or 4 million gallons occurred in the farm sector and was followed by an increase of 3 million gallons in the residential sector.

¹⁶Since 1997, sales have fallen by nearly 37 percent.

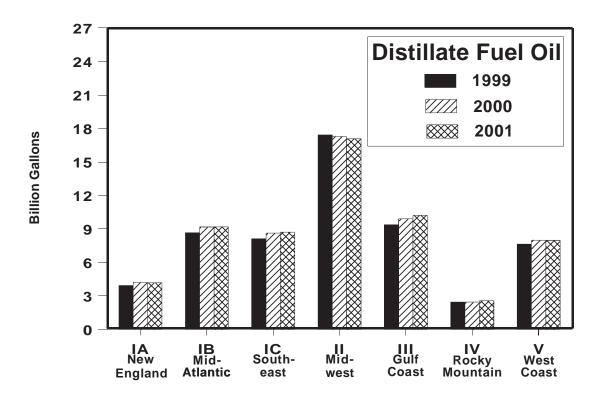
Figure HL1. U.S. Sales of Distillate and Residual Fuel Oils by Energy Use, 1999-2001

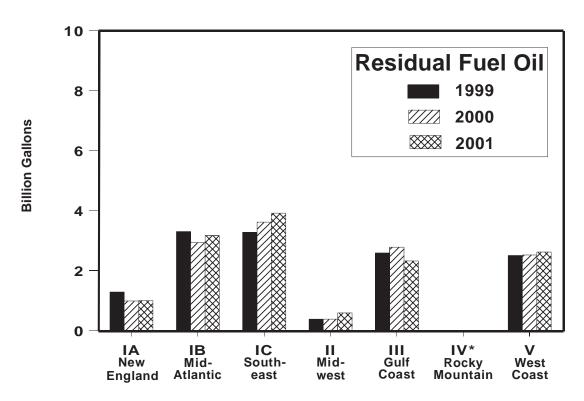




^{*}For distillate fuel oil, transportation use comprises railroad, vessel bunkering, and on-highway diesel energy use categories. For residual fuel oil, transportation use comprises the vessel bunkering energy use category. Sources: Energy Information Administration, Form EIA-821, "Fuel Oil and Kerosene Sales Report," 2000 and 2001.

Figure HL2. Volume Distribution of Distillate and Residual Fuel Oils by PAD District, 1999-2001

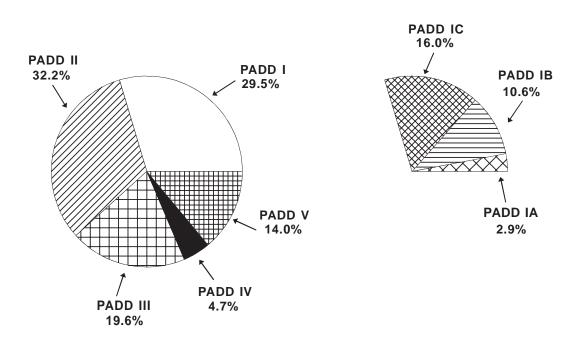




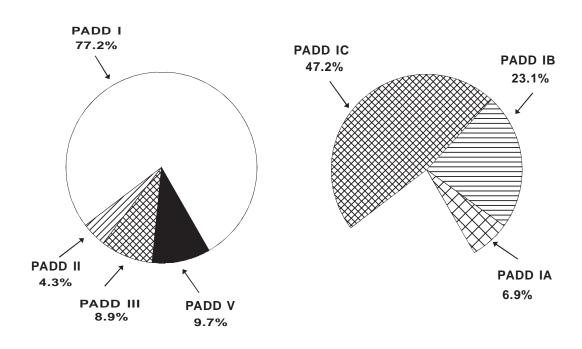
^{*}Residual fuel oil sales in PAD District IV are too small to appear in this graph. Sources: Energy Information Administration, Form EIA-821, "Fuel Oil and Kerosene Sales Report," 2000 and 2001.

Figure HL3. Distillate and Residual Fuel Oil Sales for Selected Energy Use Categories by PAD District, 2001

Distillate: Transportation



Residual: Electric Power



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

Table 1. Sales of Distillate Fuel Oil by Energy Use in the United States: 1997-2001 (Thousand Gallons)

u.	Distillate Fuel Oil								
Energy Use	1997	1998	1999	2000	2001				
U.S. Total	54,366,495	55,305,694	57,573,018	59,601,230	59,911,345				
Residential	6,531,416	5,819,959	6,302,466	6,830,455	6,642,941				
Commercial	3,314,956	3,233,350	3,338,242	3,706,345	3,717,862				
Industrial	2,309,615	2,462,355	2,477,719	2,330,870	2,466,456				
Oil Company	852,015	783,719	659,039	686,454	747,627				
Farm	3,547,699	3,410,801	3,411,623	3,454,861	3,584,104				
Electric Power	636,002	840,731	816,008	1,015,100	1,343,761				
Railroad	3,277,802	3,180,124	3,239,044	3,290,507	3,039,761				
Vessel Bunkering	2,573,800	2,595,076	2,419,336	2,261,422	2,044,049				
On-Highway Diesel	28,614,022	30,150,191	32,062,447	33,129,664	33,215,320				
Military	432,621	352,189	356,602	306,170	401,236				
Off-Highway Diesel	2,276,548	2,477,199	2,490,492	2,589,383	2,708,228				

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 1997-2001. • On-Highway Diesel data are Federal Highway Administration statistics of highway special fuels use.

Table 2. Sales of Residual Fuel Oil by Energy Use in the United States: 1997-2001 (Thousand Gallons)

	Residual Fuel Oil								
Energy Use	1997	1998	1999	2000	2001				
U.S. Total	12,504,135	14,729,841	13,328,058	13,210,935	13,609,379				
Commercial	789,674	715,111	645,927	664,360	647,758				
Industrial	1,898,611	1,797,906	1,700,054	1,585,140	1,747,367				
Oil Company	160,477	127,464	123,984	153,522	132,177				
Electric Power	4,599,084	6,431,746	4,990,083	4,362,680	5,647,433				
Vessel Bunkering	5,010,059	5,620,417	5,838,128	6,409,863	5,409,378				
Military	42,164	33,648	25,702	28,427	20,117				
All Other	4,065	3,549	4,181	6,942	5,149				

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 1997-2001.

Table 3. Sales of Kerosene by Energy Use in the United States: 1997-2001 (Thousand Gallons)

	Kerosene								
Energy Use	1997	1998	1999	2000	2001				
U.S. Total	1,009,932	1,196,580	1,118,124	1,036,014	1,108,926				
Residential	688,025	802,348	823,436	700,532	704,305				
Commercial	182,559	230,743	199,577	219,633	232,608				
Industrial	110,738	123,246	58,279	86,844	141,317				
Farm	21,556	26,823	26,312	23,084	27,162				
All Other	7,054	13,420	10,521	5,921	3,535				

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 1997-2001 and the "Petroleum Supply Annual," Volume 1, 1997-2001, (DOE/EIA-0340(97)/1 - (01)/1).

Table 4. Sales of Distillate Fuel Oil by Energy Use, 2000 and 2001

Postfootlog	Reside	ential	Comm	ercial	Indus	trial
Destination	2000	2001	2000	2001	2000	2001
U.S. Total	6,830,455	6,642,941	3,706,345	3,717,862	2,330,870	2,466,456
PAD District I Total	5,915,257	5,764,375	2,346,499	2,343,499	711,827	801,129
Subdistrict IA Total	2,278,430	2,259,990	658,915	576,048	77,670	82,307
Connecticut	621,023	579,489	131,180	144,988	17,008	24,716
Maine	305,928	291,822	141,749	107,198	25,536	15,389
Massachusetts	899,021	949,697	228,901	179,678	16,736	25,589
New Hampshire	201,260	192,669	83,702	74,362	8,216	7,691
Rhode Island Vermont	143,441 107,758	151,758 94,555	27,642 45,742	26,835 42,986	4,473 5,701	3,139 5,783
Subdistrict IB Total	3,192,052	3,102,794	1,203,992	1,261,439	232,621	245,833
Delaware	50.062	42,771	12,029	12,922	2,700	3,541
District of Columbia	9,582	8,481	24,683	23,065	17	262
Maryland	213,953	204,380	113,525	107,053	25,997	29,019
New Jersey	449,777	403,378	146,877	144,583	28,392	40,180
New York	1,549,169	1,555,018	665,223	718,463	49,707	46,039
Pennsylvania	919,510	888,766	241,656	255,353	125,807	126,792
Subdistrict IC Total	444,774	401,591	483,592	506,012	401,537	472,989
Florida Georgia	5,237 3,148	5,178 2,590	116,117 54,421	129,360 68,643	48,320 66,210	74,386 76,336
North Carolina	142,382	132,840	117,796	131,882	73,290	81,738
South Carolina	21,212	17,866	33,356	32.766	26,047	32.094
Virginia	249,735	220,962	146,066	126,065	85,885	99,407
West Virginia	23,060	22,155	15,835	17,295	101,784	109,029
PAD District II Total	666,039	620,807	602,102	671,535	636,772	700,432
Illinois	18,116	13,615	70,461	77,333	71,510	75,682
Indiana	42,909 21,171	33,187 17,665	59,084 21.135	67,134 23,165	110,456 13,796	133,003
lowa Kansas	750	1,894	25,115	34,363	13,365	16,503 18,810
Kentucky	23,188	19,441	47,585	47,825	118,066	135,362
Michigan	127,632	113,065	69,344	64,959	40,282	33,409
Minnesota	100,882	97,450	39,077	48,292	48,399	29,511
Missouri	13,554	17,217	49,145	66,382	35,488	40,370
Nebraska	4,852	3,459	8,700	10,356	5,270	4,030
North Dakota	24,800	20,943	10,187	11,144	3,303	12,656
Ohio Oklahoma	131,897 105	117,761 108	76,527 10,662	80,330 28,652	72,876 5,348	80,167 20,238
South Dakota	15,414	15,602	8,568	10,703	6,924	7,375
Tennessee	7,666	7,075	47,397	39,850	27,636	34,871
Wisconsin	133,105	142,324	59,116	61,048	64,054	58,445
PAD District III Total	1,083	2,209	336,107	256,276	407,699	354,683
Alabama	537	1,647	32,882	35,660	55,623	55,112
Arkansas Louisiana	30 62	35 63	16,517 14,805	25,278 11,791	14,447 61,311	15,226 69,973
Mississippi	61	231	11,457	14,127	36,103	40,218
New Mexico	274	194	11,676	14,906	34,914	31,688
Texas	120	39	248,770	154,514	205,301	142,467
PAD District IV Total	32,244	30,129	85,603	98,512	200,602	230,315
Colorado	2,725	2,392	26,607	26,943	19,961	26,000
Idaho	17,417	15,570	18,999	15,831	29,335	26,089
Montana Utah	7,470 3,483	7,243 3,868	6,271 16,107	8,381 29,656	15,299 36,186	20,473 32,856
Wyoming	1,150	1,056	17,619	17,700	99,822	124,897
PAD District V Total	215,831	225,420	336,034	348,039	373,970	379,897
Alaska	76,139	77,691	50,796	71,817	37,701	40,794
Arizona	174	278	38,144	32,624	95,061	95,410
California	10,604	12,502	136,504	120,908	70,965	76,558
Hawaii Nevada	14 9,314	12 9,307	9,604 17,634	5,807 14,293	3,169 91,542	3,714 69,716
Oregon	43,215	9,307 44,851	43,705	51,301	46,901	51,650
	.0,4 .0					

Table 4. Sales of Distillate Fuel Oil by Energy Use, 2000 and 2001 (Continued)

5 L	Oil Com	pany	Far	m	Electric Power		
Destination	2000	2001	2000	2001	2000	2001	
U.S. Total	686,454	747,627	3,454,861	3,584,104	1,015,100	1,343,761	
PAD District I Total	20,926	22,612	473,878	514,314	389,981	501,708	
Subdistrict IA Total	294	196	26,364	28,818	14,456	17,627	
Connecticut	294	8	5,367	6,376	2,320	2,105	
Maine	_	_	6,366	7,108	319	38	
Massachusetts	_	188	3,086	3,618	7.080	9,303	
New Hampshire		-	4,088	4,950	1,309	2,201	
Rhode Island	_	_	108	60	1,532	2,499	
Vermont	_	_		6,706	,	,	
	13,830	14,713	7,349		1,895	1,482	
Subdistrict IB Total	•	,	118,998	113,382	112,622	130,668	
Delaware	4,642	9,132	7,983	7,197	5,725	5,371	
District of Columbia	_	_	-	-	16,552	17,406	
Maryland	4	61	25,025	20,663	21,122	56,665	
New Jersey	3,115	181	9,149	11,617	9,179	5,420	
New York	7	93	46,484	40,530	3,852	16,864	
Pennsylvania	6,063	5,246	30,358	33,375	56,192	28,942	
Subdistrict IC Total	6,803	7,702	328,516	372,114	262,903	353,413	
Florida	339	209	107,880	124,165	131,454	153,989	
Georgia	331	969	116,912	142,755	34,454	32,033	
North Carolina	170	1	44,474	45,286	43,122	48,642	
South Carolina	110	_	16,543	21,835	20,785	30,151	
Virginia	653	218	39,824	35,370	18,421	71,647	
West Virginia	5,200	6,305	2,883	2,703	14.667	16,952	
Troot triginia illinininininininininininininininininin	0,200	0,000	2,000	2,. 00	,	.0,002	
PAD District II Total	44,225	52,767	1,708,468	1,801,106	171,458	226,916	
Illinois	1,493	376	177,252	155,262	11,695	16,356	
Indiana	2,780	66	76,566	90,329	22,150	31,702	
	2,760	-	220.555	,	,	,	
lowa			- /	236,261	5,341	6,761	
Kansas	7,317	6,313	151,032	158,360	10,765	10,238	
Kentucky	789	999	31,422	37,374	8,935	6,059	
Michigan	-	26	72,917	53,420	21,637	31,958	
Minnesota	4	_	117,553	139,016	6,020	14,084	
Missouri	10	74	68,779	63,132	11,715	14,083	
Nebraska	_	_	174,933	196,784	3,298	2,833	
North Dakota	5,944	5,955	101,285	115,070	2,472	1,586	
Ohio	2,383	1,924	73,038	84,438	36,105	35,736	
Oklahoma	23,469	36,952	78,077	64,083	2,699	10,468	
South Dakota	27	73	67,105	67,538	3,173	1,102	
Tennessee	8	9	41,403	35,829	20,455	36,174	
Wisconsin	_	_	256,551	304,210	4,997	7,777	
PAD District III Total	543,958	591,089	535,423	539,050	249,290	363,916	
Alabama	131	67	21,131	22,000	10,012	21,733	
Arkansas	1,493	1,976	98,797	116,946	5,153	4,754	
Louisiana	285,438	308,492	78,203	66,094	16,776	28,705	
Mississippi	3,567	4,468	69,089	71,705	2,695	2,904	
New Mexico	27.428	25,571	14,714	17,981	2,903	3,222	
Texas	225,901	250,516	253,491	244,324	211,751	302,599	
AD District IV Total	24,328	22,838	183,375	178,242	10,868	21,260	
Colorado	5,738	4,802	50,254	46,381	5,989	13.439	
Idaho	-	9	51,551	59,057	17	448	
Montana	1,901	3,212	48,997	41,229	17	497	
Utah	2,697	275	14,349	15,169	1,744	2,271	
Wyoming	13,992	14,541	18,224	16,406	3,100	4,604	
PAD District V Total	53,017	58,321	553,717	551,392	193,503	229,961	
Alaska	40,834	41,552	50	12	46,232	56,687	
Arizona	112	176	26,226	36,015	9,674	21,819	
California	9,840	12,187	400,500	401,893	10.124	22,859	
Hawaii	71	92	12,009	10,704	115,238	104,601	
Nevada	52	39	7,182	6,073	1,097	942	
Oregon	678	335		47,253		11,929	
Washington	1,430	3,939	67,335 40,416	47,253 49,442	6,157 4,983	11,929	

Table 4. Sales of Distillate Fuel Oil by Energy Use, 2000 and 2001 (Continued)

-	Railr	oad	Vessel Bu	ınkering	On-Highway		
Destination	2000	2001	2000	2001	2000	2001	
U.S. Total	3,290,507	3,039,761	2,261,422	2,044,049	33,129,664	33,215,320	
PAD District I Total	547,557	533,739	536,999	486,383	10,228,244	10,283,551	
Subdistrict IA Total	35,462	29,216	41,186	42,770	994,438	1,054,431	
Connecticut	11,415	5,821	3,029	2,838	223,858	271,949	
Maine	3,220	490	7,855	10,846	165,548	157,265	
Massachusetts	19,783	21,683	23,061	23,556	398,877	400,652	
New Hampshire	3	31	785	365	99,104	99,664	
Rhode Island	-	45	5,837	4,522	54,105	54,843	
Vermont	1,041	1,146	619	644	52,946	70,058	
Subdistrict IB Total	185,720 194	144,833 246	204,600 35,892	152,020	3,659,966 58,003	3,757,549 56,556	
Delaware District of Columbia	3,997	4,357	35,692	1,218 10	58,093 23,124	27,358	
Maryland	5,788	3,718	29,070	24,473	499,287	499,563	
New Jersey	16.869	14,262	100,743	86,860	784,719	833.297	
New York	46,503	27,311	15,873	15,813	946,272	956,982	
Pennsylvania	112,369	94,938	23,020	23,645	1,348,471	1,383,793	
Subdistrict IC Total	326,375	359,690	291,213	291,593	5,573,840	5,471,571	
Florida	118,877	112,867	137,188	145,651	1,274,869	1,284,054	
Georgia	75,925	74,348	25,642	24,580	1,381,691	1,406,878	
North Carolina	65,877	81,961	9,560	13,785	1,017,088	954,529	
South Carolina	16,858	16,796	13,893	15,662	617,908	618,958	
Virginia	37,893	64,457	42,152	29,334	992,580	936,738	
West Virginia	10,946	9,261	62,778	62,581	289,704	270,414	
PAD District II Total	1,306,816	1,056,240	319,399	318,923	11,140,616	10,946,605	
Illinois	114,022	74,602	50,480	53,791	1,275,542	1,242,862	
Indiana	79,742 27,296	24,620 15,577	46,431 5,571	19,097 5,606	1,272,013 496,774	976,154 494,746	
lowa Kansas	56,907	36,127	1,014	786	359,912	366,378	
Kentucky	108,346	100,219	85,863	90,309	828,750	813,305	
Michigan	46,642	10,455	5,244	4,172	911,342	898,950	
Minnesota	66,504	54,015	4,541	4,435	656,568	629,517	
Missouri	31,795	23,745	65,838	64,584	917,569	911,037	
Nebraska	75,165	2,525	23	· –	362,705	365,060	
North Dakota	40,943	47,024	_	_	141,486	149,766	
Ohio	158,541	168,639	3,809	3,647	1,504,632	1,468,979	
Oklahoma	351,994	355,803	202	159	728,583	947,603	
South Dakota	4,400	5,085			146,170	148,841	
Tennessee	87,416	91,736	46,841	62,362	889,379	867,065	
Wisconsin	57,103	46,068	3,543	9,975	649,191	666,342	
PAD District III Total	665,606	758,918	1,002,114	990,369	5,643,703	5,743,372	
Alabama	46,492	47,925	83,146	66,785	766,750	680,321	
Arkansas	44,058 43,885	84,949 52,410	121 542,696	256 597.624	586,466 579,895	580,583	
Louisiana Mississippi	21,029	21,319	32,109	18,540	512,739	599,491 503,217	
New Mexico	5,783	15,532	52,103	10,540	404,044	402,953	
Texas	504,360	536,783	344,042	307,163	2,793,809	2,976,807	
PAD District IV Total	286,651	248,436	144	43	1,474,611	1,569,650	
Colorado	40,984	44,392	_	_	461,178	510,659	
Idaho	38,929	26,753	124	43	215,438	218,109	
Montana	65,801	66,659	_	_	189,707	197,340	
Utah	27,837	27,016	20	_	337,256	336,377	
Wyoming	113,100	83,615	-	_	271,032	307,165	
PAD District V Total	483,878	442,429	402,765	248,331	4,642,490	4,672,142	
Alaska	6,303	6,683	126,573	103,123	90,999	111,433	
Arizona	6,141	7,696	35 150 566	70.044	630,293	675,847	
California Hawaii	298,536	281,963	158,566	79,241 31,332	2,632,760	2,627,366	
Nevada	11,082	9,284	21,188	31,332	33,506 263,275	32,754 267,368	
	,	,		40.005			
Oregon	118,846	81,593	15,056	12,925	E429,014	414,373	

Table 4. Sales of Distillate Fuel Oil by Energy Use, 2000 and 2001 (Continued)

Deatherston	Milit	ary	Off-Highway		All Other		Total	
Destination	2000	2001	2000	2001	2000	2001	2000	2001
U.S. Total	306,170	401,236	2,589,383	2,708,228	-	-	59,601,230	59,911,345
PAD District I Total	77,568	75,963	733,955	737,336	_	_	21,982,691	22,064,610
Subdistrict IA Total	9,251	14,197	67,107	68,727	_	_	4,203,572	4,174,329
Connecticut	2,251	4,078	15,121	12,588	_	_	1,032,867	1,054,955
Maine	4,797	7,255	10,731	11,484	_	_	672,048	608,895
Massachusetts	208	572	21,673	25,244	_	_	1,618,425	1,639,782
New Hampshire	1,816	2,142	13,211	14,408	-	_	413,493	398,483
Rhode Island	34	19	2,680	1,909	_	_	239,852	245,629
Vermont	145	131	3,691	3,094	_	_	226,886	226,584
Subdistrict IB Total	25,914	20,113	218,718	238,594	_	_	9,169,034	9,181,937
Delaware	417	922	5,997	5,534	_	_	183,734	145,409
District of Columbia	4,871	3,701	1,460	1,269	_	_	84,288	85,908
Maryland	4,451	5,323	41,735	49,680	_	_	979,957	1,000,600
New Jersey	702	1,578	38,291	51,712	_	_	1,587,812	1,593,068
New York	4,699	1,858	48,263	40,319	_	_	3,376,053	3,419,291
Pennsylvania	10,772	6,731	82,971	90,080			2,957,190 8.610.086	2,937,662 8.708.344
Subdistrict IC Total	42,403	41,654	448,130	430,015	_	_	-,,	-,,-
Florida	14,358	9,769	117,422	91,777	_	_	2,072,062	2,131,405
Georgia	3,232	3,922	101,275	116,489	_	_	1,863,240	1,949,543
North Carolina	3,229	7,348	67,051	72,174	_	_	1,584,039	1,570,186
South Carolina	1,749	2,227	55,883	50,775	_	_	824,344	839,131
Virginia	19,666	18,197	87,210	81,878	_	_	1,720,085	1,684,272
West Virginia	170	190	19,289	16,922	_	_	546,316	533,806
PAD District II Total	38,262	18,871	644,728	673,893	_	_	17,278,885	17,088,096
Illinois	957	1,102	92,657	90,609	_	_	1,884,184	1,801,589
Indiana	302	265	50,519	42,187	_	_	1,762,952	1,417,745
lowa	193	6	30,665	37,477	_	_	842,497	853,767
Kansas	485	5,812	25,221	25,357	_	_	651,881	664,437
Kentucky	1,015	547	44,779	53,767	_	_	1,298,737	1,305,207
Michigan	449	1,137	65,133	62,003	_	_	1,360,620	1,273,553
Minnesota	566	3,050	47,636	51,034	_	_	1,087,751	1,070,406
Missouri	3,196	2,129	55,851	72,300	_	_	1,252,940	1,275,053
Nebraska	1,114	961	19,641	19,440	_	_	655,701	605,448
North Dakota	417	517	10,646	12,011	_	_	341,482	376,672
Ohio	22,227	1,392	65,771	66,527	_	_	2,147,806	2,109,541
Oklahoma	372	67	40,018	39,281	_	_	1,241,529	1,503,414
South Dakota	29	53	10,796	9,292	_	_	262,607	265,664
Tennessee	631	287	38,373	40,920	_	_	1,207,205	1,216,177
Wisconsin	6,309	1,546	47,023	51,689	_	_	1,280,992	1,349,423
PAD District III Total	8,971	106,520	501,370	507,480	_	_	9.895.324	10,213,883
Alabama	2,439	1,982	52,319	59,657	_	_	1,071,461	992,888
Arkansas	196	185	62,282	61,335	_	_	829,560	891,522
Louisiana	2,491	1,307	81,483	74,819	_	_	1,707,045	1,810,770
Mississippi	2,588	6,871	35,276	41,213	_	_	726,712	724,812
New Mexico	315	27	22,812	17,612	_	_	524,862	529,687
Texas	942	96,147	247,198	252,844	_	_	5,035,684	5,264,204
PAD District IV Total	3,463	5,039	149,815	163,109	-	-	2,451,704	2,567,572
Colorado	659	443	68,026	66,372	_	_	682,120	741,824
Idaho	511	4,160	25,275	22,858	_	_	397,597	388,926
Montana	49	137	17,526	16,343	_	_	353,038	361,513
Utah	2,181	298	22,831	28,461	_	_	464,690	476,248
Wyoming	63	1	16,157	29,075	_	_	554,259	599,060
PAD District V Total	177,906	194,844	559,515	626,409	_	_	7,992,626	7,977,185
Alaska	9,524	8,106	21,080	15,120	_	_	506,229	533,019
Arizona	-,5-	_,.55	64,247	53,194	_	_	870,106	923,059
California	11,397	43,399	340,380	433,811	_	_	4,080,175	4,112,688
Hawaii	16,871	40,505	5,539	5,627	_	_	217,208	235,150
Nevada	1,183	1,440	25,386	31,937	_	_	427,746	410,400
Oregon	1,490	356	43,494	29,405	_	_	815,891	745,971
	1,700	000	10,707	-0,700				

Dashed (-) = No data reported. E = Estimated
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 2000-2001. • On-Highway Diesel data are Federal Highway Administration statistics of highway special fuels use.

Table 5. Sales of Residual Fuel Oil by Energy Use, 2000 and 2001

Booting of	Comme	ercial	Indus	strial	Oil Con	npany	Electric	Power
Destination	2000	2001	2000	2001	2000	2001	2000	2001
U.S. Total	664,360	647,758	1,585,140	1,747,367	153,522	132,177	4,362,680	5,647,433
PAD District I Total	637,196	603,014	1,187,600	1,308,073	73,228	88,244	3,603,559	4,358,323
Subdistrict IA Total	114,156	86,149	355,553	474,236	_	235	458,707	390,256
Connecticut	9,943	9,629	17,053	34,402	_	235	140,360	92,891
Maine	11,535	10,908	242,403	257,644	_	_	34,323	30,236
Massachusetts	63,281	30,464	50,014	125,502	_	_	240,710	233,838
New Hampshire	5,680	4,786	24,909	36,115	_	_	19,684	33,291
Rhode Island	19,094	25,012	11,713	11,900	_	_	23,631	-
Vermont	4,623	5,350	9,461	8,672	_	_	20,001	_
Subdistrict IB Total	495,051	485,510	226.604	240,402	73,228	87,553	880,352	1,304,358
			-,	30.062			,	
Delaware	10,306	12,541	29,936	30,062	35,602	48,158	27,759	115,478
District of Columbia	25	80	4		-	_	- 07.440	-
Maryland	3,963	1,971	24,311	30,774	644	683	87,119	112,948
New Jersey	21,824	22,425	25,041	33,025	1,884	1,958	135,776	364,802
New York	430,023	419,337	90,733	89,324	722	678	532,620	568,147
Pennsylvania	28,910	29,155	56,580	57,216	34,374	36,076	97,078	142,984
Subdistrict IC Total	27,989	31,355	605,442	593,435	_	456	2,264,500	2,663,709
Florida	695	853	153,381	158,880	_	_	2,135,432	2,393,838
Georgia	219	11	59,270	53,766	_	_	23,639	22,490
North Carolina	5,135	7,434	215,221	197,551	_	111		,
South Carolina	2,299	6,612	79,096	99,018		111	4,865	3,319
		,	85,128		_	234	100.564	,
Virginia	19,641	16,446	,	70,916	_		100,364	244,062
West Virginia	_	_	13,347	13,305	_	-	_	_
PAD District II Total	21,549	34,883	229,484	251,284	23,443	25,394	74,402	241,944
Illinois	636	3,404	10,451	17,910	637	94	9,471	127,190
Indiana	71	30	21,150	22,863	_	_	-	14,603
lowa	115	44	6,389	2,525			247	684
	144	391	18,297	18,428	_	_	9,446	24,218
Kansas								
Kentucky	371	350	3,712	3,212	-	4,708	30	376
Michigan	218	995	23,510	16,400	4,812	4,100	52,237	70,618
Minnesota	6,252	12,729	19,563	35,564	6,424	5,152	2,492	3,152
Missouri	1,430	1,696	3,280	6,272	_	_	128	_
Nebraska	376	1,226	5,257	6,139	_	_	_	_
North Dakota	562	2,121	2,992	1,929	_	_	351	195
Ohio	_	41	64,116	51,565	3,627	3,852	_	909
Oklahoma	_	_	7,899	19,229	2,902	664	_	_
South Dakota	3,161	283	2,890	5,913	_,-,	_	_	_
Tennessee	-		2,997	8,514	_	_	_	_
Wisconsin	8,214	11,572	36,981	34,822	5,042	6,824	_	_
PAD District III Total	9	3,537	146,605	162,533	1,948	76	239,989	501,938
Alabama	9	-,	59,070	46,418	1,948	_		_
Arkansas	_	_	405	11,815	,	_	9,138	46,476
Louisiana			62.372	57,823		_	29,505	82,056
	_	2,887	317	11,364	_	_	195,444	355,718
Mississippi	_	2,007			_		195,444	333,716
New Mexico Texas	_	- 651	6,136 18,305	4,904 30,209	_	76 —	5.902	- 17,688
16Ad3	_	031	10,303	30,209	_	_	5,302	17,000
PAD District IV Total	783	1,059	3,616	5,610	_	_	_	_
Colorado	_	_	_	238	_	_	_	_
Idaho	_	_	90	1,314	_	_	_	_
Montana	30	_	_	145	_	_	_	_
Utah	743	1,059	2,485	_	_	_	_	_
Wyoming	11	-	1,041	3,913	_	_	_	_
PAD District V Total	4,823	5,264	17,836	19,868	54,903	18,463	444,730	545,228
Alaska	, - <u>-</u>		-	1,065	,	-,	, = -	-,
Arizona	_	_	1,052	1,591	_	_	_	12,928
California	23	1,602	4,914	934	_	18,463	1,172	18,919
Hawaii	380	313	1,392	464	18,567	-,	443,558	444,656
Nevada	382	-	-,552	-		_	0,000	68,725
Oregon	2,803	2,938	6,275	7,793	39	_	_	-
Washington	1,234	2,936 411	4,205	8,020	36,298	_	_	_

Table 5. Sales of Residual Fuel Oil by Energy Use, 2000 and 2001 (Continued)

	Vessel Bu	ınkering	Milit	ary	All O	ther	То	tal
Destination	2000	2001	2000	2001	2000	2001	2000	2001
U.S. Total	6,409,863	5,409,378	28,427	20,117	6,942	5,149	13,210,935	13,609,379
PAD District I Total	2,004,495	1,699,958	14,069	12,673	6,848	4,832	7,526,995	8,075,116
Subdistrict IA Total	55,436	46,830	2,136	2,207	385	223	986,373	1,000,134
Connecticut	428	82	563	512	262	223	168,610	137,975
Maine	30,421	30,004	1,348	1,694	_	_	320,029	330,486
Massachusetts	24,338	16,743	225	_	122	_	378,690	406,548
New Hampshire	_	_	_	_	_	_	50,273	74,191
Rhode Island	250	_	_	_	_	_	54,688	36,912
Vermont	-	-	_		_	_	14,083	14,022
Subdistrict IB Total	1,243,375	1,038,444	9,543	8,947	_	_	2,928,153	3,165,215
Delaware	74,076	75,287	495	731	_	_	178,174	282,257
District of Columbia	20.014	20.040	E 061	20	_	_	29	100
Maryland	30,814 556,968	30,940	5,061 616	4,770 420	_	_	151,913 742,110	182,087
New Jersey	,	605,678	3,117	1,996	_	_	,	1,028,309
New York Pennsylvania	367,467 214,050	184,966 141,573	253	1,010	_	_	1,424,681 431,246	1,264,449 408,013
Subdistrict IC Total	705,684	614,684	2,390	1,510	6,463	4,609	3,612,469	3,909,767
Florida	455,019	494,830	2,390	1,519	6,019	4,609	2,750,546	3,053,010
Georgia	37,517	37,895	_	_	0,019	4,009	120,644	114,161
North Carolina	5,830	6,090	_	_	444	_	226,630	211,185
South Carolina	17,013	16,293	_		-	_	103,273	125,353
Virginia	190,305	59,576	2,390	1,519	_	_	398,028	392,753
West Virginia	-	-		-	_	_	13,347	13,305
PAD District II Total	28,070	30,002	3,341	7,080	45	203	380,334	590,789
Illinois	26,070 868	813	3,341	6,995	4 5	203	25,404	156,406
Indiana	13,767	9,963	3,341	0,333	_	_	34,988	47,460
lowa	15,707	9,900	_		_	7	6,751	3,260
Kansas	_	_	_	85	_	33	27,887	43,155
Kentucky	_	39	_	-	_	-	4,112	8,685
Michigan	2,185	4,124	_	_	45	40	83,007	96,277
Minnesota	10,119	10,440	_	_	_	-	44,850	67,036
Missouri	266	243	_	_	_	17	5,104	8,228
Nebraska	_		_	_	_	13	5,632	7,378
North Dakota	_	_	_	_	_	_	3,905	4,245
Ohio	559	3,974	_	_	_	76	68,302	60,417
Oklahoma	_	, –	_	_	_	17	10,801	19,910
South Dakota	_	_	_	_	_	_	6,051	6,197
Tennessee	_	246	_	_	_	_	2,997	8,760
Wisconsin	306	160	_	_	_	_	50,542	53,378
PAD District III Total	2,380,294	1,652,423	11,017	_	49	92	2,779,911	2,320,598
Alabama	131,858	42,025	, –	_	_	_	192,886	88,443
Arkansas	_	_	_	_	_	_	9,543	58,291
Louisiana	1,239,105	597,129	_	_	_	_	1,330,982	737,008
Mississippi	62,304	75,239	_	_	_	_	258,065	445,207
New Mexico	_	_	_	_	49	45	6,185	5,025
Texas	947,027	938,030	11,017	_	_	46	982,252	986,624
PAD District IV Total	_	_	_	_	_	23	4,399	6,692
Colorado	_	_	_	_	_	_	, _	238
Idaho	_	_	_	_	_	_	90	1,314
Montana	_	_	_	_	_	_	30	145
Utah	_	_	_	_	_	_	3,228	1,059
Wyoming	_	_	_	-	_	23	1,052	3,936
PAD District V Total	1,997,004	2,026,996	-	364	_	_	2,519,296	2,616,183
Alaska	5,380	3,149	_	_	_	_	5,380	4,214
Arizona	_	_	_	_	_	_	1,052	14,519
California	1,529,648	1,434,934	_	196	_	_	1,535,757	1,475,048
Hawaii	101,524	154,769	_	168	_	_	565,420	600,371
Nevada	_	_	_	_	_	_	382	68,725
Oregon	57,831	68,571	_	_	_	_	66,948	79,302
Washington	302,621	365,574		_			344,357	374,004

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 2000-2001.

Table 6. Sales of Kerosene by Energy Use, 2000 and 2001

-	Reside	ntial	Commo	ercial	Indust	trial
Destination	2000	2001	2000	2001	2000	2001
U.S. Total	700,532	704,305	219,633	232,608	86,844	141,317
PAD District I Total	575,312	582,448	186,620	194,860	56,347	56,572
Subdistrict IA Total	119,859	116,507	18,957	30,483	12,666	6,689
Connecticut	8,358	6,742	4,978	9,684	8,013	2,775
Maine	70,596	70,328	5,719	6,402	485	688
Massachusetts	8,011	8,269	4,487	6,572	345	1,280
New Hampshire	16,492	14,819	1,995	2,238	282	330
Rhode Island	2,712	2,890	803	4,117	8	10
Vermont	13,691	13,459	975	1,470	3,533	1,605
Subdistrict IB Total Delaware	255,053 5,510	263,226 4,745	138,001 5,713	138,781 5,339	31,149 262	37,188 181
District of Columbia	126	4,743	10,215	8,705	202	101
Maryland	21,221	19,761	15,226	14,563	979	2,762
New Jersey	12,542	17,203	49,946	52,410	18,012	19,645
New York	98,456	100,395	39,810	36,704	4,905	6,279
Pennsylvania	117,199	121,118	17,091	21,060	6,991	8,321
Subdistrict IC Total	200,400	202,715	29,662	25,596	12,532	12,695
Florida	4,163	3,833	1,186	1,043	3,369	4,756
Georgia	8,310	7,605	1,722	2,571	1,201	940
North Carolina	83,110	84,907	9,820	8,079	1,778	943
South Carolina	21,573	20,896	2,280	1,680	4,008	3,929
Virginia	68,945	70,602	11,604	9,564	1,316	1,679
West Virginia	14,299	14,873	3,050	2,660	860	448
PAD District II Total	93,044	85,756	24,695	23,163	15,403	17,116
Illinois	5,102	5,040	2,859	2,715	1,987	2,087
Indiana Iowa	15,098 1,096	15,025 1,538	2,007 253	1,828 545	755 132	1,016 197
Kansas	830	603	216	282	195	142
Kentucky	13,270	11,382	2,926	2,437	3,093	2,183
Michigan	14,959	9,341	1,380	1,460	1,507	1,085
Minnesota	1,375	7,886	2,260	1,479	58	117
Missouri	2,889	3,279	933	983	446	455
Nebraska	335	438	44	109	2	31
North Dakota	118	175	62	105	34	16
Ohio	17,604	18,555	5,553	6,153	2,575	4,319
Oklahoma	2,474	277	1,349	334	569	1,347
South Dakota	149	153	33	54	18	10
Tennessee	15,887	10,365	4,419	3,778	3,676	3,752
Wisconsin	1,857	1,699	399	899	356	360
PAD District III Total	7,057	7,703	3,634	6,760	13,159	63,955
Alabama	1,944	1,627	388	1,077	460	431
Arkansas	1,048	1,014	189	392	105	85
Louisiana	1,090	1,120	343	674	2,033	46,033
Mississippi	1,476	1,325	344	426	973	1,111
New Mexico	238	197	345	680	243	136
Texas	1,262	2,420	2,025	3,511	9,345	16,159
PAD District IV Total	1,858	1,198	589	980	330	519
Colorado	1,220	748	319	431	66	181
Idaho	417	214	73	194	77	15
Montana	7	26	_	1	3	6
Utah Wyoming	156 57	131 79	181 16	329 25	177 9	237 81
PAD District V Total	23,261	27,199	4,094	6,845	1,605	3,156
Alaska	23,261 564	670	4,094 15	22	1,603	3,136
Arizona	61	36	113	135	52	54
California	11,788	14,701	2,194	2,647	791	1,134
Hawaii	- 1,700	- 1,701	6	3	4	4
Nevada	337	295	83	86	12	16
Oregon	7,799	7,254	1,189	3,049	591	1,392
Washington	2,711	4,243	493	903	154	555

Table 6. Sales of Kerosene by Energy Use, 2000 and 2001 (Continued)

Bastination	Farr	n	All Ot	ther	Tot	al
Destination	2000	2001	2000	2001	2000	2001
U.S. Total	23,084	27,162	5,921	3,535	1,036,014	1,108,926
PAD District I Total	7,515	8,366	1,957	1,776	827,752	844,021
Subdistrict IA Total	1,120	1,240	270	495	152,872	155,414
Connecticut	36	18	1	135	21,385	19,354
Maine	419	638	30	65	77,249	78,120
Massachusetts	27	6	74	71	12,943	16,198
New Hampshire	259	313	52	163	19,079	17,863
Rhode Island	_	_	35	_	3,558	7,017
Vermont	380	266	78 7 0.4	62	18,657	16,862
Subdistrict IB Total	3,053	4,251	784	900	428,040	444,346
Delaware	27	37	_	_ _	11,511	10,301
District of Columbia		227		_ 27	10,341	8,709
Maryland	244	327	31	6	37,701	37,440
New Jersey New York	18 936	16 827	29 482	475	80,547 144,589	89,280 144,679
Pennsylvania	1,829	3,045	241	392	143,351	153,936
Subdistrict IC Total	3,343	2,875	904	380	246,840	244,261
Florida	653	311	27	8	9,398	9,952
Georgia	515	42	1	6	11,748	11,164
North Carolina	555	484	584	87	95,847	94,499
South Carolina	686	1,217	79	71	28,626	27,792
Virginia	860	781	197	194	82,922	82,820
West Virginia	74	39	15	15	18,299	18,034
vvoot virginia	• •	00	10	10	10,200	10,001
PAD District II Total	12,069	12,502	1,991	1,137	147,201	139,675
Illinois	802	824	195	110	10,945	10,777
Indiana	892	810	443	226	19,195	18,905
lowa	1,595	1,536	71	90	3,146	3,905
Kansas	219	673	57	22	1,517	1,721
Kentucky	1,382	874	128	35	20,799	16,911
Michigan	269	787	81	26	18,196	12,699
Minnesota	2,651	384	106	108	6,451	9,975
Missouri	127	131	28	138	4,422	4,986
Nebraska	208	257	53	33	642	869
North Dakota	230	33	21	17	465	345
Ohio	1,346	4,151	81	89	27,160	33,268
Oklahoma	147	136	555	53	5,094	2,148
South Dakota	35	81	11	20	246	317
Tennessee	263	138	35	119	24,280	18,152
Wisconsin	1,904	1,688	125	52	4,642	4,698
PAD District III Total	1,346	3,848	1,273	338	26,469	82,605
Alabama	10	19	466	_	3,268	3,154
Arkansas	57	690	8	5	1,406	2,186
Louisiana	447	17	266	41	4,178	47,885
Mississippi	26	26	3	1	2,822	2,889
New Mexico	344	102	48	67	1,218	1,182
Texas	463	2,994	482	224	13,576	25,308
PAD District IV Total	136	596	249	29	3,163	3,321
Colorado	58	39	74	16	1,737	1,414
Idaho	30	33	1	8	597	464
Montana	19	492	2	_	32	524
Utah	28	30	3	3	545	730
Wyoming	1	1	169	2	252	188
PAD District V Total	2,018	1,850	451	255	31,429	39,304
Alaska	_,	-	-	_	581	693
Arizona	4	_	_	5	230	230
California	643	481	170	152	15,587	19,115
Hawaii	_	-	-	-	10	7
Nevada	20	9	5	_	457	407
Oregon	671	933	43	38	10,294	12,666
Washington	680	427	232	59	4,271	6,187

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 2000-2001 and "Petroleum Supply Annual," Volume 1, 2000-2001, (DOE/EIA-0340(00)/1 - (01)/1).

Table 7. Sales for Residential Use: Distillate Fuel Oil and Kerosene, 2001 (Thousand Gallons)

Daniin sii au		Distillate Fuel Oil		
Destination	No. 1	No. 2	Total	Kerosene
J.S. Total	129,700	6,513,240	6,642,940	704,305
PAD District I Total	4,845	5,759,530	5,764,375	582,448
Subdistrict IA Total	2,550	2,257,440	2,259,990	116,507
Connecticut	118	579,371	579,489	6,742
Maine	1,287	290,535	291,822	70,328
Massachusetts	19	949,679	949,698	8,269
			,	
New Hampshire	1,127	191,542	192,669	14,819
Rhode Island	_	151,758	151,758	2,890
Vermont		94,555	94,555	13,459
Subdistrict IB Total	1,504	3,101,290	3,102,794	263,226
Delaware	_	42,771	42,771	4,745
District of Columbia	_	8,481	8,481	4
Maryland	115	204,265	204,380	19,761
New Jersey	314	403,064	403,378	17,203
New York	_	1,555,018	1,555,018	100,395
Pennsylvania	1,075	887,691	888,766	121,118
Subdistrict IC Total	791	400,800	401,591	202,715
Florida	791	5,178	5,178	3,833
		•	•	,
Georgia	54	2,536	2,590	7,605
North Carolina	105	132,735	132,840	84,907
South Carolina	147	17,718	17,865	20,896
Virginia	82	220,881	220,963	70,602
West Virginia	403	21,752	22,155	14,873
PAD District II Total	70,921	549,886	620,807	85,756
Illinois	1,935	11,680	13,615	5,040
Indiana	5,670	27,517	33,187	15,025
lowa	3,694	13,971	17,665	1,538
Kansas	391	1,503	1,894	603
Kentucky	295	19,146	19,441	11,382
Michigan	10,399	102,666	113,065	9,341
Minnesota	17,611	79,839	97,450	7,886
Missouri	2,295	14,922	17,217	3,279
Nebraska	1,271	2,188	3,459	438
	3,063	17,880	20,943	175
North Dakota	,	•	•	
Ohio	4,813	112,948	117,761	18,555
Oklahoma	43	65	108	277
South Dakota	4,701	10,901	15,602	153
Tennessee	1,178	5,898	7,076	10,365
Wisconsin	13,561	128,762	142,323	1,699
PAD District III Total	93	2,116	2,209	7,703
Alabama	_	1,647	1,647	1,627
Arkansas	1	34	35	1,014
Louisiana	_	63	63	1,120
Mississippi	_	231	231	1,325
New Mexico	92	102	194	197
Texas	_	39	39	2,420
PAD District IV Total	6,427	23,702	30,129	1,198
Colorado	330	2,062	2,392	748
Idaho	3,114	12,456	15,570	214
Montana			7,243	26
	2,769	4,474	•	
Utah	163	3,706	3,869	131
Wyoming	52	1,004	1,056	79
PAD District V Total	47,414	178,006	225,420	27,199
Alaska	39,597	38,094	77,691	670
Arizona	20	257	277	36
California	549	11,953	12,502	14,701
Hawaii	_	12	12	_
Nevada	280	9,027	9,307	295
Oregon	2,889	41,962	44,851	7,254
Washington	4,079	76,699	80,778	4,243

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. • Kerosene data are also based on data from Energy Information Administration's "Petroleum Supply Annual," Volume 1, 2001, (DOE/EIA-0340(01)/1).

Table 8. Sales for Commercial Use: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 2001 (Thousand Gallons)

			Di	istillate Fuel O	il				
Destination			No. 2 D	istillate				Residual	Kerosene
	No. 1 Distillate	No. 2 Fuel Oil	Low Sulfur Diesel	High Sulfur Diesel	No. 2 Total	No. 4 Fuel	Total Distillate	Fuel Oil	
U.S. Total	71,597	1,639,333	1,285,910	509,846	3,435,090	211,176	3,717,862	647,758	232,608
PAD District I Total	2,525	1,442,961	473,782	,	2,130,543	210,431	2,343,499	603,014	194,860
Subdistrict IA Total	596	467,993	64,023	12,803	544,819	30,633	576,048	86,149	30,483
Connecticut Maine	229 76	110,941 96,049	28,020 6,317	1,068 3,540	140,028	4,730	144,988	9,629 10,908	9,684 6,402
Massachusetts	22	148.333	10,914	,	105,907 162,071	1,215 17.585	107,198 179,678	30,464	6,572
New Hampshire	109	60,180	9,929	460	70,569	3,684	74,362	4,786	2,238
Rhode Island	160	21,590	3,002	267	24,859	1,817	26,835	25,012	4,117
Vermont	_	30,900	5,841	4,644	41,385	1,601	42,986	5,350	1,470
Subdistrict IB Total	1,258	859,276	150,936	71,796	1,082,008	178,173	1,261,439	485,510	138,781
Delaware	2	9,670	2,058	669	12,397	522	12,922	12,541	5,339
District of Columbia		17,078	2,513	1,114	20,704	2,360	23,065	80	8,705
Maryland	575	57,694	34,645	12,746	105,085	1,394	107,053	1,971	14,563
New Jersey	19	111,635	20,136	6,854	138,625	5,939	144,583	22,425	52,410
New YorkPennsylvania	476 185	491,719 171,480	48,763 42,821	15,290 35,124	555,772 249.425	162,215 5,743	718,463 255.353	419,337 29,155	36,704 21,060
Subdistrict IC Total	672	115,693	258,822	129,200	503,715	1,624	506,012	31,355	25,596
Florida	-	2,385	91,995	34,596	128.975	385	129,360	853	1,043
Georgia	35	2,516	43,429	22,663	68,608	-	68,643	11	2,571
North Carolina	314	28,618	62,648	40,261	131,527	41	131,882	7,434	8,079
South Carolina	_	6,913	18,453	7,260	32,626	140	32,766	6,612	1,680
Virginia	111	66,466	37,468	21,104	125,038	916	126,065	16,446	9,564
West Virginia	212	8,795	4,829	3,317	16,941	143	17,295	-	2,660
PAD District II Total	37,278	128,686	349,329	155,606	633,620	637	671,535	34,883	23,163
Illinois	6,648	17,777	38,042	14,865	70,684	_	77,333	3,404	2,715
Indiana	2,441	22,199	33,186	9,309	64,693	_	67,134	30	1,828
lowa Kansas	3,131 2,815	4,469 1,342	11,789 27,560	3,775 2,645	20,033 31,547	-	23,165 34,363	44 391	545 282
Kentucky	319	4,154	24,018	18,994	47,166	340	47,825	350	2,437
Michigan	824	10,856	42,168	10,945	63,970	165	64,959	995	1,460
Minnesota	6,024	16,210	16,224	,	42,259	10	48,292	12,729	1,479
Missouri	1,820	7,036	22,477	35,050	64,563	_	66,382	1,696	983
Nebraska	4,248	514	4,731	862	6,108	_	10,356	1,226	109
North Dakota	1,362	4,230	4,634		9,782	_	11,144	2,121	105
Ohio	2,617	13,390	41,713	22,609	77,713	_	80,330	41	6,153
Oklahoma	8	- 2 400	25,946		28,644	-	28,652	-	334
South Dakota Tennessee	1,014 189	3,432 2,829	4,862 26,662	1,396 10,048	9,690 39,539	- 122	10,703 39,850	283	54 3,778
Wisconsin	3,817	20,247	25,317	11,666	57,230	122	61,048	11,572	899
	,				•				
PAD District III Total	1,487	1,378	192,087	61,324	254,789	-	256,276	3,537	6,760
Alabama Arkansas	4	496 16	26,019 16,160	9,144 9,099	35,660 25,275	_	35,660	_	1,077 392
Louisiana	21	-	7,951	3,819	11,771	_	25,278 11,791	_	674
Mississippi		22	8,405	5,700	14,127	_	14,127	2,887	426
New Mexico	1,221	632	9,710	3,342	13,685	_	14,906	_,00.	680
Texas	241	212	123,842		154,273	-	154,514	651	3,511
PAD District IV Total	10,301	19,194	59,735	9,282	88,211	_	98,512	1,059	980
Colorado	2,005	1,644	22,951	343	24,938	-	26,943	_	431
Idaho	2,933	1,571	8,916	2,411	12,898	_	15,831	_	194
Montana	646	3,489	3,999	247	7,735	_	8,381	-	1
Utah Wyoming	987 3,730	12,390 100	10,520 13,350	5,759 521	28,669 13,970	_	29,656 17,700	1,059 -	329 25
PAD District V Total	20,005	47,115	210,977	69,834	327,926	108	348,039	5,264	6,845
Alaska	16,759	20,073	3,290	31,675	55,037	21	71,817	- ,	22
Arizona	58	2	32,420	113	32,535	31	32,624	_	135
California	369	7,941	107,307	5,292	120,539	_	120,908	1,602	2,647
Hawaii		63	1,912	3,832	5,806	_	5,807	313	3
Nevada	248	2,590	11,335	120	14,045	_	14,293		86
Oregon	1,143	4,404	31,286		50,102	56	51,301	2,938	3,049
Washington	1,427	12,042	23,427	14,392	49,861	_	51,289	411	903

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. • Kerosene data are also based on data from Energy Information Administration's "Petroleum Supply Annual," Volume 1, 2001, (DOE/EIA-0340(01)/1).

Table 9. Sales for Industrial Use: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 2001 (Thousand Gallons)

			Di	stillate Fuel O	il				
Destination			No. 2 D	istillate				Residual	Kerosene
Destination	No. 1 Distillate	No. 2 Fuel Oil	Low Sulfur Diesel	High Sulfur Diesel	No. 2 Total	No. 4 Fuel	Total Distillate	Fuel Oil	Refuserie
U.S. Total	51,058	367,267	929,070	1,073,094	2,369,431	45,968	2,466,456	1,747,367	141,317
PAD District I Total	1,406	238,023	124,562	394,685	757,271	42,452	801,129	1,308,073	56,572
Subdistrict IA Total	384	41,750	14,616	6,413	62,780	19,143	82,307	474,236	6,689
Connecticut Maine	- 29	13,557 10,046	2,421	235 860	16,213 13,762	8,504	24,716	34,402	2,775 688
Massachusetts	30	7,290	2,856 7,900	4,599	19,789	1,598 5,771	15,389 25,589	257,644 125,502	1,280
New Hampshire	326	5,596	1,019	95	6,711	655	7,691	36,115	330
Rhode Island	_	1,663	191	15	1,869	1,270	3,139	11,900	10
Vermont	_	3,598	229	610	4,437	1,346	5,783	8,672	1,605
Subdistrict IB Total	576	112,077	29,962	84,076	226,115	19,141	245,833	240,402	37,188
Delaware	_	1,244	1,319	260	2,823	718	3,541	30,062	181
District of Columbia	-	42	- 0.040		42	219	262	- 20 774	0.700
Maryland New Jersey	576 —	17,399 26,732	3,342 6,230	6,537 502	27,278 33,464	1,165 6,717	29,019 40,180	30,774 33,025	2,762 19,645
New York	_	34,038	3,739	1,592	39,369	6,671	46,039	89,324	6,279
Pennsylvania	_	32,622	15,333	75,185	123,140	3,651	126,792	57,216	8,321
Subdistrict IC Total	446	84,195	79,984	304,196	468,376	4,168	472,989	593,435	12,695
Florida	_	3,330	18,644	51,653	73,627	758	74,386	158,880	4,756
Georgia	_	9,716	24,616	41,998	76,330	6	76,336	53,766	940
North Carolina	_	19,363	17,439	44,180	80,982	756	81,738	197,551	943
South Carolina	_	8,378	8,412	14,876	31,666	428	32,094	99,018	3,929
Virginia	16	27,720	6,838	62,618	97,176	2,215	99,407	70,916	1,679
West Virginia	429	15,689	4,034	88,872	108,594	5	109,029	13,305	448
PAD District II Total	19,344	111,172	210,981	356,888	679,041	2,048	700,432	251,284	17,116
Illinois Indiana	2,964 5,076	9,708	26,280 23,996	36,715	72,703 127,475	15 453	75,682 133,003	17,910 22,863	2,087
lowa	619	26,206 3,313	10,514	77,272 2,058	15,884	400	16,503	2,525	1,016 197
Kansas	871	677	14,346	2,914	17,936	3	18,810	18,428	142
Kentucky	26	7,753	22,562	104,408	134,723	613	135,362	3,212	2,183
Michigan	1,350	5,283	11,457	15,079	31,819	241	33,409	16,400	1,085
Minnesota	1,613	14,591	12,685	621	27,897	2	29,511	35,564	117
Missouri	908	4,929	11,632	22,901	39,462	_	40,370	6,272	455
Nebraska	_	234	114	3,682	4,030	_	4,030	6,139	31
North Dakota	689	2,669	6,378	2,920	11,967	-	12,656	1,929	16
Ohio Oklahoma	620	8,118 3,374	26,967 5,631	44,139 11,233	79,224 20,238	323	80,167 20,238	51,565 19,229	4,319 1,347
South Dakota	418	767	5,712	478	6,957	_	7,375	5,913	1,347
Tennessee	-	7.081	10,286	17,242	34,610	261	34,871	8,514	3,752
Wisconsin	4,191	16,470	22,421	15,226	54,116	138	58,445	34,822	360
PAD District III Total	2,407	7,362	168,731	175,533	351,627	649	354,683	162,533	63,955
Alabama	_,	631	26,157	27,684	54,472	639	55,112	46,418	431
Arkansas	_	131	7,006	8,089	15,226	_	15,226	11,815	85
Louisiana	_	3,826	20,483	45,664	69,973	_	69,973	57,823	46,033
Mississippi	_	5	9,694	30,516	40,216	2	40,218	11,364	1,111
New Mexico	2,407	1,410	25,894	1,969	29,273	8	31,688	4,904	136
Texas	_	1,359	79,497	61,611	142,467	_	142,467	30,209	16,159
PAD District IV Total	10,822	7,113	195,217	17,163	219,493	-	230,315	5,610	519
Colorado	1,387	260	21,576	2,777	24,613	_	26,000	238	181
Idaho	1,816	6,461	7,910	9,902	24,273	_	26,089	1,314	15
Montana Utah	939 1,398	387	19,301 26,944	232 4,127	19,534 31,458	_	20,473 32,856	145	6 237
Wyoming	5,282	4	119,485	125	119,615	_	124,897	3,913	81
PAD District V Total	17,079	3,597	229,579	128,824	362,000	819	379,897	19,868	3,156
Alaska	16,135	2,137	3,280	19,243	24,660	- 019	40,794	1,065	3,130
Arizona	607	_,.57	49,242	45,561	94,803	_	95,410	1,591	54
California	102	1,199	68,016	7,223	76,439	17	76,558	934	1,134
Hawaii	_	60	2,761	893	3,714	_	3,714	464	4
Nevada	180		53,521	15,243	68,764	772	69,716	_	16
Oregon	29	51	22,676	28,864	51,591	30	51,650	7,793	1,392
Washington	26	150	30,082	11,797	42,029	_	42,054	8,020	555

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. • Kerosene data are also based on data from Energy Information Administration's "Petroleum Supply Annual," Volume 1, 2001, (DOE/EIA-0340(01)/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, 2001 (Thousand Gallons)

		Fa	rm		Electric	Power	Oil Comp	oany Use
Destination	Diesel	Other Distillate	Total Distillate	Kerosene	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil
U.S. Total	3,504,580	79,524	3,584,104	27,162	1,343,761	5,647,433	747,627	132,177
PAD District I Total	471,298	43,016	514,314	8,366	501,708	4,358,323	22,612	88,244
Subdistrict IA Total	14,598	14,220	28,818	1,240	17,627	390,256	196	235
Connecticut	1,930	4,446	6,376	18	2,105	92,891	8	235
Maine	3,398	3,710	7,108	638	38	30,236	-	_
Massachusetts	2,841	777	3,618	6	9,303	233,838	188	_
New Hampshire	1,725	3,224	4,950	313	2,201	33,291	_	_
Rhode Island	44	16	60	_	2,499	_	_	_
Vermont	4,659	2,047	6,706	266	1,482	4 204 250	44.740	07.550
Subdistrict IB Total	88,209	25,173	113,382	4,251	130,668	1,304,358	14,713	87,553
Delaware	7,185 –	11	7,197	37	5,371	115,478	9,132	48,158
District of Columbia			20.662		17,406	112.040		-
Maryland	20,273	390	20,663	327	56,665	112,948	61	683
New Jersey	11,016	600	11,617	16	5,420	364,802	181	1,958
New York	24,635	15,895	40,530	827	16,864	568,147	93	678
Pennsylvania	25,099	8,276	33,375	3,045	28,942	142,984	5,246	36,076
Subdistrict IC Total	368,491	3,624	372,114	2,875	353,413	2,663,709	7,702	456 _
Florida	123,228	937	124,165	311	153,989	2,393,838	209	
Georgia	142,755	1.050	142,755	42	32,033	22,490	969	-
North Carolina	43,337	1,950	45,286	484	48,642	2 240	1	111
South Carolina	21,833	1	21,835	1,217	30,151	3,319	-	111
Virginia	34,670	700	35,370	781	71,647	244,062	218	234
West Virginia	2,667	36	2,703	39	16,952	_	6,305	_
PAD District II Total	1,770,900	30,207	1,801,106	12,502	226,916	241,944	52,767	25,394
Illinois	153,998	1,264	155,262	824	16,356	127,190	376	94
Indiana	87,311	3,018	90,329	810	31,702	14,603	66	_
lowa	228,657	7,604	236,261	1,536	6,761	684	-	_
Kansas	155,361	2,999	158,360	673	10,238	24,218	6,313	
Kentucky	35,934	1,440	37,374	874	6,059	376	999	4,708
Michigan	52,782	638	53,420	787	31,958	70,618	26	4,100
Minnesota	134,614	4,402	139,016	384	14,084	3,152		5,152
Missouri	63,130	_ 1	63,132	131	14,083	_	74	_
Nebraska	195,993	792	196,784	257	2,833			_
North Dakota	114,385	685	115,070	33	1,586	195	5,955	-
Ohio	83,755	683	84,438	4,151	35,736	909	1,924	3,852
Oklahoma	64,083	-	64,083	136	10,468	_	36,952	664
South Dakota	66,099	1,439	67,538	81	1,102	_	73	_
Tennessee	35,756	73	35,829	138	36,174	_	9	-
Wisconsin	299,041	5,168	304,210	1,688	7,777	_	_	6,824
PAD District III Total	538,370	680	539,050	3,848	363,916	501,938	591,089	76
Alabama	22,000	_	22,000	19	21,733	_	67	_
Arkansas	116,946	_	116,946	690	4,754	46,476	1,976	_
Louisiana	66,094	_	66,094	17	28,705	82,056	308,492	_
Mississippi	71,199	505	71,705	26	2,904	355,718	4,468	_
New Mexico	17,981	_	17,981	102	3,222		25,571	76
Texas	244,150	174	244,324	2,994	302,599	17,688	250,516	-
PAD District IV Total	172,875	5,367	178,242	596	21,260	_	22,838	_
Colorado	46,140	241	46,381	39	13,439	_	4,802	_
Idaho	58,651	406	59,057	33	448	_	9	_
Montana	36,551	4,677	41,229	492	497	_	3,212	_
Utah	15,166	4	15,169	30	2,271	_	275	_
Wyoming	16,367	39	16,406	1	4,604	_	14,541	-
PAD District V Total	551,137	255	551,392	1,850	229,961	545,228	58,321	18,463
Alaska	11	1	12	, <u> </u>	56,687	, <u> </u>	41,552	, –
Arizona	36,015	_	36,015	_	21,819	12,928	176	_
California	401,841	52	401,893	481	22,859	18,919	12,187	18,463
Hawaii	10,704	_	10,704	_	104,601	444,656	92	
Nevada	6,057	16	6,073	9	942	68,725	39	_
Oregon	47,081	172	47,253	933	11,929	_	335	_
Washington	49,428	14	49,442	427	11,124	_	3,939	_

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. • Kerosene data are also based on data from Energy Information Administration's "Petroleum Supply Annual," Volume 1, 2001, (DOE/EIA-0340(01)/1).

Table 11. Sales for Transportation Use: Distillate Fuel Oil and Residual Fuel Oil, 2001 (Thousand Gallons)

Deatherston	Railroad Use	Vessel Bu	unkering	On-Highway Diesel	Total Transp	ortation Use
Destination	Distillate Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil
U.S. Total	3,039,761	2,044,049	5,409,378	33,215,320	38,299,131	5,409,378
PAD District I Total	533,739	486,383	1,699,958	10,283,551	11,303,673	1,699,958
Subdistrict IA Total	29,216	42,770	46,830	1,054,431	1,126,417	46,830
Connecticut	5,821	2,838	82	271,949	280,607	82
Maine	490	10,846	30,004	157,265	168,601	30,004
Massachusetts	21,683	23,556	16,743	400,652	445,892	16,743
New Hampshire	31	365	_	99,664	100,060	_
Rhode Island		4,522	_	54,843	59,410	_
Vermont	,	644	4 020 444	70,058	71,848	4 020 444
Subdistrict IB Total Delaware	144,833 246	152,020 1,218	1,038,444 75,287	3,757,549 56,556	4,054,401 58,020	1,038,444 75,287
District of Columbia	4,357	1,210	73,207	27,358	31,725	73,207
Maryland	,	24,473	30,940	499,563	527,754	30,940
New Jersey	14,262	86,860	605,678	833,297	934,419	605,678
New York		15,813	184,966	956,982	1,000,106	184,966
Pennsylvania		23,645	141,573	1,383,793	1,502,376	141,573
Subdistrict IC Total	359,690	291,593	614,684	5,471,571	6,122,855	614,684
Florida	112,867	145,651	494,830	1,284,054	1,542,572	494,830
Georgia	74,348	24,580	37,895	1,406,878	1,505,805	37,895
North Carolina	81,961	13,785	6,090	954,529	1,050,275	6,090
South Carolina	16,796	15,662	16,293	618,958	651,417	16,293
Virginia		29,334	59,576	936,738	1,030,529	59,576
West Virginia	9,261	62,581	_	270,414	342,256	_
PAD District II Total	1,056,240	318,923	30,002	10,946,605	12,321,768	30,002
Illinois	74,602	53,791	813	1,242,862	1,371,255	813
Indiana	24,620	19,097	9,963	976,154	1,019,871	9,963
lowa	15,577	5,606	-	494,746	515,929	_
Kansas	36,127	786	_	366,378	403,290	_
Kentucky		90,309	39	813,305	1,003,832	39
Michigan		4,172	4,124	898,950	913,577	4,124
Minnesota	54,015	4,435	10,440	629,517	687,967	10,440
Missouri	,	64,584	243	911,037	999,366	243
Nebraska	,	_	_	365,060	367,585	_
North Dakota Ohio	47,024 168,639	3,647	3,974	149,766 1,468,979	196,790 1,641,265	3,974
Oklahoma	,	159	3,974	947,603	1,303,565	3,914
South Dakota	5,085	-	_	148,841	153,926	_
Tennessee	91,736	62,362	246	867,065	1,021,163	246
Wisconsin	,	9,975	160	666,342	722,386	160
PAD District III Total	750.040	000.000	4 650 400	F 740 070	7 400 650	4 650 400
Alabama	758,918	990,369	1,652,423	5,743,372 680.321	7,492,659	1,652,423
Arkansas	47,925 84,949	66,785 256	42,025	580.583	795,031	42,025
Louisiana	52,410	597,624	597,129	599,491	665,787 1,249,526	597,129
Mississippi	21,319	18,540	75,239	503,217	543,076	75,239
New Mexico	15,532	10,540	75,255	402,953	418,486	75,255
Texas	536,783	307,163	938,030	2,976,807	3,820,753	938,030
DAD District IV Total	040 400	40		4 500 050	4 040 400	
PAD District IV Total	248,436	43	-	1,569,650	1,818,128	-
Colorado	44,392	- 42	_	510,659	555,051	_
Idaho Montana	26,753 66,659	43	_	218,109 197,340	244,905 263,999	_
Utah	27,016	_	_	336,377	363,393	_
Wyoming	83,615	_	_	307,165	390,780	_
		040.004	0.000.000	4.0=0.440	F 000 000	0.000.000
PAD District V Total	442,429	248,331	2,026,996	4,672,142	5,362,902	2,026,996
Alaska Arizona	6,683 7,696	103,123	3,149	111,433 675 847	221,240 683 543	3,149
California	7,696 281,963	79,241	1,434,934	675,847 2,627,366	683,543 2,988,571	1,434,934
Hawaii	201,803	79,241 31,332	154,769	2,627,366 32,754	64,086	1,434,934
Nevada	9,284	J1,JJZ	134,709	267,368	276,652	104,709
Oregon	81,593	12,925	68,571	414,373	E _{508,891}	68,571
Washington	55,208	21,710	365,574	543,001	619,919	365,574

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. • 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, 2001

		Mili	tary			f-Highway late Fuel O	il		All Other	
Destination	Diesel	Other Distillate	Total Distillate	Residual Fuel Oil	Construction	Other	Total	Distillate Fuel Oil	Residual Fuel Oil	Kerosene
U.S. Total	359,432	41,805	401,236	20,117	2,264,595	443,633	2,708,228	-	5,149	3,535
PAD District I Total	46,912	29,051	75,963	12,673	580,071	157,265	737,336	_	4,832	1,776
Subdistrict IA Total	3,996	10,201	14,197	2,207	57,668	11,060	68,727	_	223	495
Connecticut	355	3,722	4,078	512	12,315	274	12,588	_	223	135
Maine	2,451	4,804	7,255	1,694	10,207	1,277	11,484	_	_	65
Massachusetts	327	245	572	_	22,504	2,740	25,244	_	_	71
New Hampshire	819	1,323	2,142	_	9,389	5,018	14,408	_	_	163
Rhode Island	17	1	19	-	1,908	1 740	1,909	_	_	_
Vermont Subdistrict IB Total	27 8,175	105	131	9 0 4 7	1,345	1,749 22,555	3,094 238,594	_	-	62 900
Delaware	330	11,938 592	20,113 922	8,947 731	216,039 4,123	1,411	5,534	_		900
District of Columbia	940	2,761	3,701	20	1,269	1,411	1,269	_	_	_
Maryland	3,399	1,924	5,323	4,770	46,971	2,709	49,680	_	_	27
New Jersey	277	1,301	1,578	420	42,419	9,293	51,712	_	_	6
New York	350	1,508	1,858	1,996	36,454	3,865	40,319	_	_	475
Pennsylvania	2,880	3,852	6,731	1,010	84,803	5,277	90,080	_	_	392
Subdistrict IC Total	34,741	6,913	41,654	1,519	306,364	123,650	430,015	_	4,609	380
Florida	9,769	. –	9,769	. –	80,469	11,308	91,777	_	4,609	8
Georgia	3,922	_	3,922	_	69,317	47,172	116,489	_	_	6
North Carolina	5,027	2,321	7,348	_	55,032	17,142	72,174	_	_	87
South Carolina	1,827	400	2,227	_	21,362	29,413	50,775	_	_	71
Virginia	14,005	4,192	18,197	1,519	69,116	12,762	81,878	_	_	194
West Virginia	190	_	190	-	11,068	5,854	16,922	_	-	15
PAD District II Total	17,731	1,139	18,871	7,080	604,431	69,462	673,893	_	203	1,137
Illinois	915	187	1,102	6,995	86,644	3,965	90,609	_	_	110
Indiana	265	1	265	· –	35,767	6,420	42,187	_	_	226
lowa	6	_	6	_	35,015	2,461	37,477	_	7	90
Kansas	5,812	_	5,812	85	24,453	905	25,357	_	33	22
Kentucky	547	_	547	_	48,165	5,601	53,767	_	_	35
Michigan	1,137	-	1,137	_	55,423	6,580	62,003	_	40	26
Minnesota	3,050	_	3,050	_	40,855	10,179	51,034	_	_	108
Missouri	1,805	323	2,129	_	65,313	6,987	72,300	_	17	138
Nebraska	961	_	961	_	17,444	1,995	19,440	_	13	33
North Dakota	517	_	517	_	11,258	753	12,011	_	_	17
Ohio	1,392	_	1,392	-	60,140	6,387	66,527	_	76	89
Oklahoma	67	- 4	67 53	_	36,845	2,437 834	39,281	_	17	53 20
South Dakota	49			_	8,458		9,292	_	_	119
Tennessee Wisconsin	262 946	25 600	287 1,546	_	32,897 45,754	8,023 5,934	40,920 51,689	_	_	52
VVISCOTISII1	940	000	1,540	_	45,754	3,934	31,009	_	_	32
PAD District III Total	106,520	_	106,520	-	384,789	122,691	507,480	_	92	338
Alabama	1,982	_	1,982	_	31,886	27,771	59,657	_	_	_
Arkansas	185	_	185	_	23,780	37,556	61,335	_	_	5
Louisiana	1,307	_	1,307	_	59,579	15,241	74,819	_	_	41
Mississippi	6,871	_	6,871	_	23,706	17,507	41,213	_	-	1
New Mexico	27	-	27	-	15,279	2,333	17,612	_	45	67
Texas	96,147	_	96,147	_	230,559	22,285	252,844	_	46	224
PAD District IV Total	5,029	10	5,039	_	138,838	24,271	163,109	-	23	29
Colorado	433	10	443	_	63,249	3,123	66,372	_	_	16
Idaho	4,160	_	4,160	_	12,397	10,461	22,858	_	_	8
Montana	137	_	137	_	9,399	6,943	16,343	_	_	_
Utah Wyoming	298 1	_	298 1	_	26,542 27,252	1,920 1,823	28,461 29,075	_	23	3 2
PAD District V Total	183,240	11,604	194,844	364	556,466	69,943	626,409	_	_	255
Alaska	8,101	11,004	8,106	304	10,910	4,210	15,120	_	_	255
Arizona	0,101	_	0,100	_	49,140	4,054	53,194	_	_	_ 5
California	43,399	_	43,399	196	405,832	27,979	433,811	_	_	152
Hawaii	40,505	_	40,505	168	5,624	21,919	5,627	_	_	-
Nevada	1,440	_	1,440	-	30,600	1,337	31,937	_	_	_
Oregon	356	_	356	_	17,229	12,176	29,405	_	_	38
Oregon										

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. • Kerosene data are also based on data from Energy Information Administration's "Petroleum Supply Annual," Volume 1, 2001, (DOE/EIA-0340(01)/1).

Adjusted Sales of Fuel Oil and Kerosene in 2001

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 national level. In addition, electric power generation data and on-highway diesel data are used in lieu of adjusted survey results.

NOTE: The 2000 adjusted numbers have been revised since they were first published in the Fuel Oil and Kerosene Sales 2000. The revisions to the data were made to include the nonutility data in addition to the electric utility information to produce the new volume for "Electric Power". The 2001 data are preliminary data and will be revised when new nonutility data are available. See "Technical Note 3" in Appendix A for further explanation of data adjustments.

The products supplied estimates can be found in the 1997 through 2001 issues of the *Petroleum Supply Annual, Volume 1* (PSA). A significant change to the residual fuel oil is evident between 2000 and 2001. This is a result of importers misclassifying unfinished oils imported as residual fuel oil an the Form EIA-814 "Monthly Imports Report," which the PSA uses as a data source. The PSA explains the revision within the Front Matter section in more detail. This information can be found on EIA's website at:

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

Due to the reclassification of products in the 2001 PSA, adjusted sales volumes may not accurately reflect growth trends of total residual fuel oil sales and energy use sectors sales within the residual fuel oil category. Hence, Table ADJ1 below is displayed to show comparisons across the 2000 and 2001 EIA-821 survey results (as displayed in Tables 1 through 12), the 2001 PSA (as displayed in Tables 13 through 24) and the 2001 Petroleum Supply Monthly data, adjusted at the national level by energy use sector displayed below. Because of the discrepancy across these data series, Table ADJ1 below shows a comparison of actual breakdowns of residual fuel oil energy use collected on the EIA-821 survey between 2000 and 2001 with what the energy use breakdowns would look like if adjusted using PSA or PSM totals for residual fuel oil. In keeping with historical practice, EIA has published the data in Tables 13 through 24 benchmarked to the 2001 PSA. However, the data user should be aware that because the tables are adjusted to PSA totals, comparing any year's data to the revised 2001 data may not provide the reader with a true reflection of the change in the amount of residual fuel oil use. Since the sales data adjusted to PSM totals do not reflect product reclassification in 2001, the reader may wish to consider these data in analyzing changes in residual fuel use. In so doing, however, the reader should be aware that the PSM based data do not reflect those revisions, apart from misclassification, subsequent to collection otherwise reflected in the PSA series.

Table ADJ1. Residual Fuel Oil Sales Data and Adjustments to PSA and PSM, 2000 and 2001 (Thousand Gallons)

	82	1 Sales D	ata (Table 2)			Adjusted	l to PSA		Adjusted to PSM			
Energy Use	2000	% Share	2001	% Share	2000	% Share	2001	% Share	2000	% Share	2001	% Share
U.S. Total	13,210,935		13,609,379		13,966,134		12,435,318		12,824,700		14,290,206	
Commercial	664,360	5.0	647,758	4.8	641,810	4.6	440,651	3.5	556,107	4.3	591,559	4.1
Industrial	1,585,140	12.0	1,747,367	12.8	1,531,336	11.0	1,188,683	9.6	1,326,851	10.3	1,595,766	11.2
Oil Company	153,522	1.2	132,177	1.0	148,311	1.1	89,916	0.7	128,507	1.0	120,709	0.8
Electric Power	4,362,680	33.0	5,647,433	41.5	5,418,215	38.8	7,019,038	56.4	5,418,215	42.2	7,019,038	49.1
Vessel Bunkering .	6,409,863	48.5	5,409,378	39.7	6,192,293	44.3	3,679,842	29.6	5,365,414	41.8	4,940,061	34.6
Military	28,427	0.2	20,117	0.1	27,462	0.2	13,685	0.1	23,795	0.2	18,372	0.1
All Other	6,942	0.1	5,149	0.0	6,706	0.0	3,503	0.0	5,811	0.0	4,702	0.0

Source: Energy Information Administration's "Fuel Oil and Kerosene Sales," 2000-2001, (DOE/EIA-0535(00) - (01), "Petroleum Supply Annual," Volume 1, 2000-2001. (DOE/EIA-0340 (00)/1, and "Petroleum Supply Monthly," February, 2001-2002, (DOE/EIA-0109(2001)/02-(2002)/02).

Table 13. Adjusted Sales of Distillate Fuel Oil by Energy Use in the United States: 1997-2001 (Thousand Gallons)

II			Distillate Fuel Oil		
Energy Use	1997	1998	1999	2000	2001
U.S. Total	52,665,438	53,063,934	54,758,718	57,217,230	58,971,486
Residential	6,487,768	5,633,409	5,847,762	^R 6,123,946	P6,263,440
Commercial	3,218,497	3,044,495	3,003,653	R3,324,687	P3,505,057
Industrial	2,167,169	2,258,248	2,170,075	R _{2,117,531}	P2,323,797
Oil Company	632,595	565,174	576,997	^R 671,170	P820,321
Farm	3,304,531	3,033,405	2,899,222	R3,122,416	P3,427,343
Electric Power	646,778	962,921	912,807	R _{1,139,740}	P1,510,273
Railroad	3,067,400	2,833,276	2,789,926	R3,026,147	P2,951,831
Vessel Bunkering	2,107,561	2,125,568	2,064,590	R2,041,433	P _{2,093,252}
On-Highway Diesel	28,614,022	30,150,191	32,062,447	33,129,664	33,215,320
Military	337,390	277,688	288,926	R _{227,998}	P346,060
Off-Highway Diesel	2,081,728	2,179,560	2,142,313	R _{2,292,498}	P2,514,791

P = Preliminary. R = Revised.
Notes: • See "Technical Note 3" in Appendix A for further explanations on 2000 revised data, 2001 preliminary 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.
Sources: • Energy Information Administration's Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 1997-2001 and "Petroleum Supply Annual,"
Volume 1, 1997-2001, (DOE/EIA-0340(97)/1 - (01)/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: 1997-2001 (Thousand Gallons)

Energy Use	Residual Fuel Oil				
	1997	1998	1999	2000	2001
U.S. Total	12,213,390	13,599,558	12,725,916	13,966,134	12,435,318
Commercial	754,967	590,388	619,429	^R 641,810	P440,651
Industrial	1,815,165	1,484,331	1,630,313	R1,531,336	P1,188,683
Oil Company	153,424	105,233	118,898	R148,311	P89,916
Electric Power	4,655,775	6,748,744	4,729,990	^R 5,418,215	P 7,019,038
Vessel Bunkering	4,789,861	4,640,153	5,598,630	^R 6,192,294	P3,679,843
Military	40,311	27,779	24,647	R _{27,462}	P13,685
All Other	3,886	2,930	4,009	^R 6,706	P3,503

P = Preliminary. R = Revised.
Notes: • See "Technical Note 3" in Appendix A for further explanations on 2000 revised data, 2001 preliminary 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 1997-2001 and "Petroleum Supply Annual,"
Volume 1, 1997-2001, (DOE/EIA-0340(97)/1 - (01)/1). • See Technical Note 3 for further explanation of Electric Power.

Table 15. Adjusted Sales of Kerosene by Energy Use in the United States: 1997-2001 (Thousand Gallons)

F	Kerosene										
Energy Use	1997	1998 1999		2000	2001						
U.S. Total	1,009,932	1,196,580	1,118,124	1,036,014	1,108,926						
Residential	688,025	802,348	823,436	700,532	704,305						
Commercial	182,559	230,743	199,577	219,633	232,608						
Industrial	110,738	123,246	58,279	86,844	141,317						
Farm	21,556	26,823	26,312	23,084	27,162						
All Other	7,054	13,420	10,521	5,921	3,535						

Notes: • See "Technical Note 3" in Appendix A 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 1997-2001 and "Petroleum Supply Annual," Volume 1, 1997-2001, (DOE/EIA-0340(97)/1 - (01)/1).

Table 16. Adjusted Sales of Distillate Fuel Oil by Energy Use, 2000 and 2001

Deatherston	Reside	ential	Comm	ercial	Indus	strial
Destination	R2000	P2001	R2000	P2001	R2000	P2001
U.S. Total	6,123,946	6,263,440	3,324,687	3,505,057	2,117,531	2,323,797
PAD District I Total	5,329,890	5,469,003	2,114,292	2,223,416	641,386	760,079
Subdistrict IA Total	, ,	2,144,186	593,710	546,531	69,984	78,090
Connecticut		549,796	118,199	137,558	15,325	23,450
Maine	,	276,869	127,722	101,705	23,009	14,600
Massachusetts	,	901,034	206,249	170,472	15,080	24,278
New Hampshire		182,796	75,419	70,552	7,403	7,297
Rhode Island		143,982	24,906	25,460	4,031	2,978
Vermont		89,710	41,215	40,784	5,137	5,486
Subdistrict IB Total	2,876,171	2,943,804	1,084,847	1,196,802	209,601	233,236
Delaware	45,108	40,580	10,838	12,260	2,433	3,359
District of Columbia	8,633	8,047	22,241	21,883	15	248
Maryland	192,781	193,908	102,290	101,568	23,425	27,532
New Jersey	405,267	382,709	132,342	137,174	25,582	38,121
New York	1,395,865	1,475,337	599,393	681,648	44,788	43,680
Pennsylvania	828,516	843,225	217,742	242,269	113,358	120,295
Subdistrict IC Total	400,760	381,013	435,736	480,083	361,801	448,753
Florida	4,719	4,913	104,626	122,732	43,539	70,574
Georgia	2,836	2,457	49,036	65,126	59,658	72,425
North Carolina	128,292	126,033	106,139	125,124	66,037	77,550
South Carolina	19,113	16,950	30,055	31,087	23,469	30,449
Virginia	225,022	209,640	131,612	119,605	77,386	94,313
West Virginia	20,778	21,019	14,268	16,409	91,712	103,442
PAD District II Total	. ,	618,286	562,182	668,808	594,553	697,588
Illinois	,	13,560	65,789	77,019	66,769	75,374
Indiana		33,052	55,167	66,861	103,133	132,463
lowa		17,594	19,734	23,071	12,881	16,436
Kansas		1,886	23,449	34,223	12,479	18,734
Kentucky		19,362	44,430	47,631	110,238	134,812
Michigan		112,606	64,746	64,695	37,611	33,273
Minnesota		97,054	36,486	48,096	45,190	29,391
Missouri	,	17,147	45,886	66,113	33,135	40,206
Nebraska		3,445	8,123	10,314	4,921	4,013
North Dakota		20,858	9,512	11,099	3,084	12,605
Ohio	,	117,283	71,453	80,004	68,044	79,841
Oklahoma		108	9,955	28,535	4,993	20,156
South Dakota	,	15,539	8,000	10,660	6,465	7,345
Tennessee	,	7,047	44,255	39,688	25,804	34,729
Wisconsin	124,280	141,746	55,197	60,800	59,807	58,208
PAD District III Total	,	2,571	339,430	298,265	411,730	412,794
Alabama		1,917	33,207	41,502	56,173	64,141
Arkansas		41	16,680	29,420	14,590	17,720
Louisiana		73	14,952	13,723	61,917	81,437
Mississippi		269	11,570	16,442	36,460	46,807
New Mexico		226	11,792	17,348	35,259	36,880
Texas	121	46	251,230	179,829	207,331	165,809
PAD District IV Total	38,637	26,986	102,576	88,233	240,376	206,283
Colorado	3,265	2,142	31,882	24,132	23,919	23,287
Idaho	20,870	13,945	22,766	14,180	35,151	23,367
Montana	8,951	6,487	7,515	7,507	18,332	18,337
Utah	4,173	3,465	19,301	26,562	43,360	29,428
Wyoming	1,378	946	21,112	15,853	119,614	111,865
PAD District V Total	- , -	146,594	206,207	226,336	229,486	247,054
Alaska		50,524	31,171	46,704	23,135	26,529
Arizona		180	23,407	21,216	58,334	62,047
California	,	8,130	83,765	78,629	43,548	49,787
Hawaii		8	5,893	3,776	1,944	2,415
Nevada	,	6,053	10,821	9,295	56,175	45,338
Oregon		29,168	26,819	33,362	28,781	33,589
Washington	46,866	52,531	24,330	33,354	17,569	27,349

Table 16. Adjusted Sales of Distillate Fuel Oil by Energy Use, 2000 and 2001 (Continued)

	Oil Com	npany	Far	m	Electric	Power
Destination	R2000	P2001	R2000	P2001	R2000	P2001
U.S. Total	671,170	820,321	3,122,416	3,427,343	1,139,740	1,510,273
PAD District I Total	18,856	21,453	426,983	487,960	437,865	563,878
Subdistrict IA Total	265	186	23,755	27,341	16,231	19,812
Connecticut	265	8	4,836	6,049	2,605	2,366
Maine	_	_	5,736	6,744	358	43
Massachusetts	_	178	2,780	3,432	7,950	10,456
New Hampshire	_	_	3,683	4,696	1,470	2,473
Rhode Island	_	_	98	57	1,720	2,809
Vermont	_	_	6,622	6,362	2,128	1,665
Subdistrict IB Total	12,461	13,959	107,222	107,572	126,450	146,860
Delaware	4,182	8,664	7,193	6,828	6,428	6,037
District of Columbia	-,	_	-	-	18,584	19,562
Maryland	4	58	22,548	19,604	23,715	63,687
New Jersey	2,806	172	8,244	11,021	10,306	6,091
New York	6	88	41,884	38,453	4,325	18,954
Pennsylvania	5,463	4,977	27,354	31,665	63,092	32,528
Subdistrict IC Total	6,130	7,307	296,007	353,047	295,184	397,206
Florida	305	198	97,205	117,803	147,595	173.071
Georgia	298	919	105,342	135,440	38,684	36,002
North Carolina	153	1	40,073	42,966	48,417	54,669
	99		14,906	,	,	,
South Carolina	588	207		20,716 33,558	23,337 20,683	33,887 80,525
Virginia			35,883	,	,	,
West Virginia	4,686	5,982	2,597	2,564	16,468	19,052
PAD District II Total	41,293	52,553	1,595,194	1,793,792	192,511	255,035
Illinois	1,394	375	165,500	154,632	13,130	18,382
Indiana	2,596	66	71,489	89,962	24,870	35,630
lowa	_	_	205,932	235,302	5,997	7,599
Kansas	6,832	6,287	141,018	157,717	12,087	11,507
Kentucky	737	995	29,339	37,222	10,033	6,810
Michigan	_	26	68,082	53,203	24,293	35,918
Minnesota	4	_	109,759	138,452	6,759	15,830
Missouri	9	74	64,219	62,875	13,154	15,828
Nebraska	_	_	163,335	195,985	3,703	3,184
North Dakota	5,550	5,931	94,570	114,603	2,775	1,783
Ohio	2,225	1,917	68,195	84,095	40,538	40,164
Oklahoma	21,913	36,802	72,900	63,823	3,031	11,765
South Dakota	25	72	62,656	67,264	3,563	1,239
Tennessee	7	9	38,658	35,683	22,967	40,656
Wisconsin	_	_	239,541	302,974	5,610	8,741
PAD District III Total	549,337	687.933	540,718	627,368	279.900	409,010
Alabama	133	78	21,340	25,605	11,242	24,426
Arkansas	1,508	2,300	99,773	136,106	5,786	5,343
Louisiana	288,260	359,035	78,976	76,923	18,836	32,262
Mississippi	3,602	5,200	69,772	83,453	3,025	3,263
New Mexico	27,699	29,760	14,860	20,927	3,260	3,622
Texas	228,134	29,760	255,997	284,354	237,751	340,095
						,
PAD District IV Total	29,152	20,455	219,733	159,644	12,202	23,894
Colorado	6,875	4,301	60,218	41,541	6,725	15,105
ldaho		8	61,773	52,895	20	504
Montana	2,278	2,877	58,711	36,927	19	558
Utah	3,232	246	17,194	13,586	1,958	2,553
Wyoming	16,766	13,023	21,837	14,695	3,481	5,175
PAD District V Total	32,534	37,927	339,788	358,580	217,263	258,456
Alaska	25,058	27,022	30	. 8	51,908	63,711
Arizona	69	114	16,093	23,421	10,862	24,523
California	6,038	7,926	245,766	261,358	11,367	25,691
Hawaii	44	60	7,369	6,961	129,387	117,563
	32	26	4,407	3,949	1,231	1,059
Nevaga						
Nevada Oregon	416	218	41,320	30,730	6,913	13,407

Table 16. Adjusted Sales of Distillate Fuel Oil by Energy Use, 2000 and 2001 (Continued)

Baselin et al.	Railr	oad	Vessel Bu	unkering	On-Hiç	jhway
Destination	R2000	P2001	R 2000	P2001	2000	2001
U.S. Total	3,026,147	2,951,831	2,041,433	2,093,252	33,129,664	33,215,320
PAD District I Total	493,371	506,390	483,859	461,460	10.228.244	10.283.551
Subdistrict IA Total	31,953	27,719	37,111	40,579	994,438	1,054,431
Connecticut	10,286	5,522	2,730	2,692	223,858	271,949
Maine	2,901	465	7,078	10,290	165,548	157,265
Massachusetts	17,826	20,572	20,779	22.349	398,877	400,652
	17,020	20,372	708	346	99,104	99,664
New Hampshire	2	43				54,843
Rhode Island Vermont			5,260	4,290	54,105	,
	938	1,087	557	611	52,946	70,058
Subdistrict IB Total	167,342	137,411	184,353	144,230	3,659,966	3,757,549
Delaware	175	233	32,340	1,156	58,093	56,556
District of Columbia	3,601	4,134	3	10	23,124	27,358
Maryland	5,216	3,528	26,193	23,219	499,287	499,563
New Jersey	15,200	13,531	90,773	82,410	784,719	833,297
New York	41,902	25,912	14,302	15,003	946,272	956,982
Pennsylvania	101,249	90,073	20,742	22,434	1,348,471	1,383,793
Subdistrict IC Total	294,077	341,260	262,395	276,652	5,573,840	5,471,571
Florida	107,113	107,084	123,612	138,187	1,274,869	1,284,054
Georgia	68,411	70,538	23,105	23,320	1,381,691	1,406,878
North Carolina	59,358	77,762	8,614	13,079	1,017,088	954,529
South Carolina	15,189	15,936	12,518	14,860	617,908	618,958
Virginia	34,143	61,154	37,981	27,831	992,580	936,738
	,		,		,	,
West Virginia	9,863	8,787	56,565	59,375	289,704	270,414
PAD District II Total	1,220,172	1,051,950	298,223	317,628	11,140,616	10,946,605
Illinois	106,462	74,299	47,133	53,573	1,275,542	1,242,862
Indiana	74,455	24,520	43,353	19,020	1,272,013	976,154
lowa	25,487	15,513	5,202	5,584	496,774	494,746
Kansas	53,134	35,980	947	783	359,912	366,378
Kentucky	101,162	99,812	80,170	89,942	828,750	813,305
Michigan	43,549	10,413	4,896	4,155	911,342	898,950
Minnesota	62,095	53,796	4,240	4,417	656,568	629,517
Missouri	29,687	23,649	61,472	64,321	917,569	911,037
Nebraska	70,182	2,515	21		362,705	365,060
North Dakota	38,228	46,833		_	141,486	149,766
Ohio	148,030	167,954	3,556	3,632	1,504,632	1,468,979
Oklahoma	328,657	354,358	189	158	728,583	947,603
South Dakota	4,109	5,065	109	130	146,170	148,841
	,	,	40.706		,	,
Tennessee Wisconsin	81,620 53,317	91,363 45,881	43,736 3,308	62,109 9,935	889,379 649,191	867,065 666,342
Widestiem	00,011	10,001	0,000	0,000	010,101	000,012
PAD District III Total	672,187	883,259	1,012,022	1,152,632	5,643,703	5,743,372
Alabama	46,951	55,777	83,969	77,727	766,750	680,321
Arkansas	44,493	98,867	122	298	586,466	580,583
Louisiana	44,319	60,997	548,062	695,539	579,895	599,491
Mississippi	21,236	24,812	32,426	21,578	512,739	503,217
New Mexico	5,840	18,077	_	1	404,044	402,953
Texas	509,347	624,730	347,444	357,489	2,793,809	2,976,807
PAD District IV Total	343,485	222,513	173	38	1,474,611	1,569,650
Colorado	49,110	39,760	173	30	461,178	510,659
			140	20		
Idaho	46,647	23,961	149	38	215,438	218,109
Montana	78,847	59,704	-	_	189,707	197,340
Utah Wyoming	33,356 135,525	24,197 74,890	24	_	337,256 271,032	336,377 307,165
, 50000	,				2. 1,002	307,100
PAD District V Total	296,931	287,719	247,157	161,494	4,642,490	4,672,142
Alaska	3,868	4,346	77,671	67,063	90,999	111,433
Arizona	3,769	5,005	21		630,293	675,847
California	183,196	183,366	97,304	51,532	2,632,760	2,627,366
Hawaii	_	-	13,002	20,376	33,506	32,754
Nevada	6,801	6,038	_	_	263,275	267,368
Oregon	72,930	53,062	9,239	8,405	E429,014	414,373
Washington	26,368	35,903	49,919	14,118	562,643	543,001

Table 16. Adjusted Sales of Distillate Fuel Oil by Energy Use, 2000 and 2001 (Continued)

Destination	Milita	ary	Off-Hig	hway	All O	ther	То	tal
Destination	R2000	P2001	R2000	P2001	R2000	P2001	R2000	P2001
U.S. Total	227,998	346,060	2,292,498	2,514,791	_	-	57,217,230	58,971,486
PAD District I Total	69,892	72,071	661,324	699,554	_	_	20,905,962	21,548,814
Subdistrict IA Total	8,335	13,469	60,466	65,206	_	_	3,889,205	4,017,550
Connecticut	2,028	3,869	13,625	11,943	_	_	953,323	1,015,202
Maine	4,322	6,883	9,669	10,896	_	_	621,997	585,760
Massachusetts	188	543	19,528	23,951	_	_	1,499,310	1,577,917
New Hampshire	1,636	2,033	11,904	13,669	_	_	382,672	383,557
Rhode Island	30	18	2,415	1,811	_	_	221,811	236,291
Vermont	131	125	3,326	2,935	_	_	210,093	218,823
Subdistrict IB Total	23,350	19,082	197,074	226,368	_	_	8,648,836	8,926,873
Delaware	376	874	5,404	5,250	_	_	172,570	141,797
District of Columbia	4,389	3,511	1,316	1,204	_	_	81,906	85,957
Maryland	4,011	5,050	37,605	47,134	_	_	937,074	984,852
New Jersey	633	1,497	34,501	49,062	_	_	1,510,374	1,555,086
New York	4,234	1,763	43,487	38,253	_	_	3,136,459	3,296,073
Pennsylvania	9,706	6,386	74,761	85,465	_	_	2,810,453	2,863,109
Subdistrict IC Total	38,207	39,519	403,784	407,980	_	_	8,367,920	8,604,391
Florida	12,937	9,268	105.802	87,075	_	_	2,022,322	2,114,958
Georgia	2,912	3,721	91,253	110,520	_	_	1.823.226	1,927,348
North Carolina	2,909	6,972	60,416	68,475	_	_	1,537,496	1,547,159
South Carolina	1,576	2,113	50,353	48,173	_	_	808.524	833,130
Virginia	17.720	17,265	78,580	77.682	_	_	1,652,177	1,658,517
West Virginia	153	180	17,380	16,055	_	-	524,175	523,279
DAD Division II Total	05 705	40.704	204 204	074 457			40.004.000	47 000 404
PAD District II Total	35,725	18,794	601,981	671,157	_	_	16,904,328	17,092,194
Illinois	894	1,097	86,513	90,241	_	_	1,846,042	1,801,413
Indiana	282	264	47,169	42,016	_	_	1,734,590	1,420,008
lowa	180	6	28,632	37,325	_	_	820,585	853,175
Kansas	453	5,788	23,549	25,254	_	_	634,559	664,537
Kentucky	947	545	41,810	53,548	_	_	1,269,266	1,303,985
Michigan	419	1,133	60,814	61,751	_	_	1,334,924	1,276,121
Minnesota	528	3,038	44,478	50,827	_	_	1,060,301	1,070,418
Missouri	2,984	2,120	52,148	72,007	_	_	1,232,919	1,275,376
Nebraska	1,040	957	18,339	19,361	_	_	636,898	604,834
North Dakota	390	515	9,940	11,962	_	_	328,690	375,954
Ohio	20,753	1,386	61,410	66,257	_	_	2,111,990	2,111,513
Oklahoma	347	67	37,365	39,122	_	_	1,208,030	1,502,497
South Dakota	27	52	10,080	9,254	_	_	255,487	265,331
Tennessee Wisconsin	589 5,891	286 1,539	35,829 43,905	40,754 51,479	_	_	1,190,000 1,240,047	1,219,389 1,347,644
WISCOTISHT	3,091	1,559	43,903	31,479	_	_	1,240,047	1,347,044
PAD District III Total	9,059	123,972	506,327	590,626	_	_	9,965,508	10,931,802
Alabama	2,463	2,307	52,836	69,431	_	_	1,075,604	1,043,232
Arkansas	198	216	62,898	71,384	_	_	832,545	942,277
Louisiana	2,515	1,521	82,289	87,078	_	_	1,720,084	2,008,080
Mississippi	2,614	7,997	35,625	47,966	_	_	729,132	761,002
New Mexico	318	31	23,037	20,497	_	_	526,385	550,322
Texas	951	111,900	249,642	294,270	_	_	5,081,758	5,626,890
PAD District IV Total	4,150	4,513	179,519	146,090	_	_	2,644,614	2,468,298
Colorado	790	397	81,513	59,447	_	_	725,474	720,771
Idaho	613	3,726	30,286	20,473	_	_	433,713	371,205
Montana	59	123	21,001	14,637	_	_	385,421	344,496
Utah	2,613	267	27,358	25,492	_	_	489,825	462,172
Wyoming	75	1	19,361	26,041	_	_	610,181	569,654
, 0								
PAD District V Total	109,172	126,710	343,346	407,365	_	_	6,796,818	6,930,378
Alaska	5,844	5,272	12,936	9,833	_	_	369,343	412,444
Arizona	-	-	39,425	34,593	_	-	782,380	846,946
California	6,994	28,223	208,874	282,115	_	_	3,526,119	3,604,123
Hawaii	10,353	26,341	3,399	3,660	_	_	204,906	213,914
Nevada	726	936	15,578	20,769	_	_	364,761	360,831
Oregon	914	232	26,690	19,122	_	_	669,555	635,667
Washington	84,341	65,707	36,444	37,273	_	_	879,754	856,453

Dashed (-) = No data reported. E = Estimated. P = Preliminary. R = Revised.

Notes: • See "Technical Note 3" in Appendix A for further explanations on 2000 revised data and 2001 preliminary data. • Totals may not equal sum of

Notes: • See Technical Note 3 in Appendix A for further explanations on 2000 revised data and 2001 profilering data. • Sources: one high way sources: • Energy Information Administration's Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 2000-2001 and "Petroleum Supply Annual," Volume 1, 2000-2001, (DOE/EIA-0340(00)/1 - (01)/1). • See "Technical Note 3" in Appendix A 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, 2000 and 2001

Double of	Comme	ercial	Indus	strial	Oil Con	npany	Electric	Power
Destination	R2000	P2001	R2000	P2001	R2000	P2001	R2000	P2001
U.S. Total	641,810	440,651	1,531,336	1,188,683	148,311	89,916	5,418,215	7,019,038
PAD District I Total	615,568	410,213	1,147,289	889,844	70,742	60,030	4,475,428	5,416,839
Subdistrict IA Total	110,281	58,604	343,485	322,609	_	160	569,690	485,039
Connecticut	9,606	6,550	16,474	23,403	_	160	174,319	115,452
Maine	11,143	7,420	234,175	175,268	_	_	42,627	37,579
Massachusetts	61,133	20,724	48,317	85,376	_	_	298,948	290,631
New Hampshire	5,487	3,256	24,063	24,568	_	_	24,447	41,376
Rhode Island	18,446	17,015	11,316	8,095	_	_	29,348	41,070
Vermont	4,466	3,640	9,140	5,899	_	_	23,340	
Subdistrict IB Total	478,248	330,278	218,912	163,539	70,742	59,560	1,093,350	1,621,151
Delaware	9,956	8,531	28,920	20,451	34,394	32,760	34,475	143,524
District of Columbia	9,930 24	54	20,920	20,431	34,334	32,700	34,473	143,324
				20.025	-	465	100 107	140 200
Maryland	3,829	1,341	23,486	20,935	622	465	108,197	140,380
New Jersey	21,084	15,255	24,191	22,466	1,820	1,332	168,627	453,402
New York	415,426	285,263	87,653	60,765	698	461	661,486	706,134
Pennsylvania	27,929	19,833	54,659	38,923	33,208	24,541	120,565	177,710
Subdistrict IC Total	27,039	21,330	584,892	403,697	-	310	2,812,388	3,310,649
Florida	672	580	148,174	108,081	_	_	2,652,092	2,975,235
Georgia	212	7	57,258	36,576	_		29,358	27,952
North Carolina	4,961	5,057	207,916	134,388	_	75	-	_
South Carolina	2,221	4,498	76,411	67,359	_	76	6,042	4,125
Virginia	18,974	11,187	82,238	48,242	_	159	124,896	303,338
West Virginia	_	_	12,894	9,051	_	_	_	_
PAD District II Total	20,817	23,730	221,694	170,941	22,648	17,275	92,404	300,705
Illinois	614	2,316	10,096	12,184	616	64	11,762	158,080
Indiana	68	21	20,432	15,553	_	_	_	18,150
lowa	111	30	6,172	1,717	_	_	307	850
Kansas	139	266	17,676	12,536	_	_	11,731	30,099
Kentucky	358	238	3,586	2,185	_	3,203	37	467
Michigan	211	677	22,712	11,156	4,649	2,789	64,876	87,769
Minnesota	6,040	8,659	18,899	24,193	6,206	3,505	3,094	3,917
Missouri	1,381	1,154	3,169	4,266	_	· –	160	_
Nebraska	363	834	5,078	4,176	_	_	_	_
North Dakota	543	1,443	2,891	1,312	_	_	436	242
Ohio	_	28	61,940	35,078	3,504	2,620	_	1,130
Oklahoma	_		7,630	13,081	2,803	452	_	-,
South Dakota	3,054	193	2,792	4,023	_,,		_	_
Tennessee		-	2,896	5,792	_	_	_	_
Wisconsin	7,935	7,872	35,725	23,688	4,870	4,642	-	_
PAD District III Total	9	2,406	141,629	110,566	1,882	51	298,053	623,845
Alabama	9	· –	57,065	31,577	1,882	_	· –	. –
Arkansas	_	_	391	8,037	_	_	11,348	57,764
Louisiana	_	_	60,255	39,336	_	_	36,643	101,986
Mississippi	_	1,964	306	7,730	_	_	242,731	442,112
New Mexico	_	_	5,928	3,336	_	51	, –	, <u> </u>
Texas	-	443	17,684	20,550	-	-	7,330	21,984
PAD District IV Total	757	720	3,493	3,816	_	_	_	_
Colorado	_	_	. –	162	_	_	_	_
Idaho	_	_	87	894	_	_	_	_
Montana	29	_	_	99	_	_	_	_
Utah	717	720	2,401	_	_	_	_	_
Wyoming	10	_	1,005	2,662	_	-	-	-
PAD District V Total	4,659	3,581	17,231	13,515	53,040	12,560	552,331	677,649
Alaska	_	_		725	_	_	_	
Arizona	-		1,016	1,083	_	-	_	16,068
California	23	1,090	4,747	635	_	12,560	1,455	23,514
Hawaii	368	213	1,345	316	17,936	_	550,875	552,651
Nevada	369	_	_	_	_	_	_	85,416
Oregon	2,708	1,999	6,062	5,301	37	_	_	_
		279	4,062	5,456	35,066			

Table 17. Adjusted Sales of Residual Fuel Oil by Energy Use, 2000 and 2001 (Continued)

Paratio di	Vessel Bu	unkering	Milit	ary	All Ot	ther	То	tal
Destination	R2000	P2001	R2000	P2001	R 2000	P2001	R2000	P2001
U.S. Total	6,192,294	3,679,843	27,462	13,685	6,706	3,503	13,966,134	12,435,318
PAD District I Total	1,936,457	1,156,432	13,592	8,621	6,616	3,287	8,265,690	7,945,265
Subdistrict IA Total	53,555	31,857	2,064	1,501	372	151	1,079,445	899,921
Connecticut	414	56	544	349	253	151	201,611	146,121
Maine	29,388	20,411	1,303	1,153		_	318,636	241,831
Massachusetts	23,512	11,390	217	_	118	_	432,245	408,120
New Hampshire	_	_	_	_	_	_	53,997	69,200
Rhode Island	241	_	_	_	_	_	59,351	25,110
Vermont	4 004 474	700 400	- 0.040	- 007	_	_	13,605	9,539
Subdistrict IB Total	1,201,171	706,423	9,219	6,087	-	-	3,071,642	2,887,038
Delaware	71,561	51,215	479	497 14	_	_	179,784	256,979
District of Columbia	20.769	21.049			_	_	28 170 702	197 412
Maryland	29,768	21,048	4,890	3,245	_	_	170,792	187,413
New Jersey	538,063 354,994	412,025	595 3,011	286 1,358	_	_	754,380	904,767
New York	206,785	125,827 96,308	245	687	_	_	1,523,268 443,391	1,179,808
Pennsylvania Subdistrict IC Total	681,731	418,152	2,3 09	1,033	6,244	3,136	4,114,603	358,002 4,158,307
Florida	439,575	336,619	2,309	1,033	5,815	3,136	3,246,328	3,423,650
	36,243		_	_	3,613		123,071	
Georgia	,	25,779	_	_	420	_	,	90,313
North Carolina	5,632	4,143	_	_	429	_	218,938	143,663
South Carolina	16,436	11,084			_		101,110	87,141
Virginia West Virginia	183,846 -	40,528 -	2,309 -	1,033	_	_	412,263 12,894	404,488 9,051
PAD District II Total	27,117	20,409	3,228	4,816	44	138	387,951	538,014
Illinois	839	553	3,228	4,758	-	-	27,155	177,956
Indiana	13,300	6,777	5,220	4,750	_	_	33,800	40,501
lowa	10,000	0,777	_	_	_	5	6,590	2,602
Kansas	_	_	_	58	_	23	29,546	42,982
Kentucky	_	27	_	-	_	_	3,981	6,119
Michigan	2,111	2,805	_	_	44	27	94,602	105,224
Minnesota	9,775	7,102	_	_			44,015	47,376
Missouri	257	165	_	_	_	12	4,966	5,597
Nebraska	_	-	_	_	_	9	5,441	5,019
North Dakota	_	_	_	_	_	_	3,870	2,997
Ohio	540	2,704	_	_	_	51	65,984	41,611
Oklahoma	_	_,	_	_	_	11	10,434	13,544
South Dakota	_	_	_	_	_	_	5,846	4,215
Tennessee	_	168	_	_	_	_	2,896	5,959
Wisconsin	296	109	-	-	_	-	48,826	36,311
PAD District III Total	2,299,500	1,124,095	10,643	_	47	62	2,751,763	1,861,026
Alabama	127,383	28,588	_	_	_	_	186,339	60,165
Arkansas	_	_	_	_	_	_	11,740	65,801
Louisiana	1,197,046	406,209	_	_	_	_	1,293,944	547,530
Mississippi	60,189	51,183	_	_	_	_	303,226	502,989
New Mexico	_	_	_	_	47	31	5,975	3,418
Texas	914,882	638,115	10,643	-	_	32	950,539	681,123
PAD District IV Total	_	_	_	_	_	16	4,249	4,552
Colorado	_	_	_	_	_	_	_	162
Idaho	_	_	_	_	_	_	87	894
Montana	_	_	_	_	_	_	29	99
Utah	_	_	_	_	_	_	3,118	720
Wyoming	_	_	_	_	_	16	1,016	2,678
PAD District V Total	1,929,220	1,378,906	_	248	_	_	2,556,480	2,086,460
Alaska	5,198	2,142	_	_	_	_	5,198	2,867
Arizona	_	_	_	_	_	_	1,016	17,150
California	1,477,727	976,144	_	133	_	_	1,483,952	1,014,077
Hawaii	98,078	105,285	_	115	_	_	668,601	658,579
Nevada	_	_	_	_	_	_	369	85,416
Oregon	55,868	46,647	_	_	_	_	64,675	53,947
Washington	292,349	248,689	_	_	_	_	332,669	254,424

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

Notes: • See "Technical Note 3" in Appendix A for further explanations on 2000 revised data and 2001 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 2000-2001 and "Petroleum Supply Annual," Volume 1, 2000-2001, (DOE/EIA-0340(00)/1 - (01)/1). • See "Technical Note 3" in Appendix A for further explanation of Electric Power.

Table 18. Adjusted Sales of Kerosene by Energy Use, 2000 and 2001

Doctingtion	Reside	ential	Comm	ercial	Industrial		
Destination	2000	2001	2000	2001	2000	2001	
J.S. Total	700,532	704,305	219,633	232,608	86,844	141,31	
AD District I Total	575,312	582,448	186,620	194,860	56,347	56,57	
Subdistrict IA Total	119,859	116,507	18,957	30,483	12,666	6,68	
Connecticut	8,358	6,742	4,978	9,684	8,013	2,77	
Maine	70.596	70,328	5,719	6,402	485	68	
Massachusetts	8,011	8,269	4,487	6,572	345	1,28	
						,	
New Hampshire	16,492	14,819	1,995	2,238	282	33	
Rhode Island	2,712	2,890	803	4,117	8	1	
Vermont	13,691	13,459	975	1,470	3,533	1,60	
Subdistrict IB Total	255,053	263,226	138,001	138,781	31,149	37,18	
Delaware	5,510	4,745	5,713	5,339	262	18	
District of Columbia	126	4	10,215	8,705		.0	
	21,221	19,761	,	,	979	2,76	
Maryland		,	15,226	14,563			
New Jersey	12,542	17,203	49,946	52,410	18,012	19,64	
New York	98,456	100,395	39,810	36,704	4,905	6,27	
Pennsylvania	117,199	121,118	17,091	21,060	6,991	8,32	
Subdistrict IC Total	200,400	202,715	29,662	25,596	12,532	12,69	
Florida	4,163	3,833	1,186	1,043	3,369	4,75	
Georgia	8,310	7,605	1,722	2,571	1,201	94	
9	,	,	,	,	,		
North Carolina	83,110	84,907	9,820	8,079	1,778	94	
South Carolina	21,573	20,896	2,280	1,680	4,008	3,92	
Virginia	68,945	70,602	11,604	9,564	1,316	1,67	
West Virginia	14,299	14,873	3,050	2,660	860	44	
	,=	,	-,	_,,			
AD District II Total	93,044	85,756	24,695	23,163	15 402	17,11	
	,	,	,	,	15,403	,	
Illinois	5,102	5,040	2,859	2,715	1,987	2,08	
Indiana	15,098	15,025	2,007	1,828	755	1,01	
lowa	1,096	1,538	253	545	132	19	
Kansas	830	603	216	282	195	14	
Kentucky	13,270	11,382	2,926	2,437	3,093	2,18	
Michigan	14,959	9,341	1,380	1,460	1,507	1,08	
•	,	,	,	,		,	
Minnesota	1,375	7,886	2,260	1,479	58	11	
Missouri	2,889	3,279	933	983	446	45	
Nebraska	335	438	44	109	2	3	
North Dakota	118	175	62	105	34	1	
Ohio	17,604	18,555	5,553	6,153	2,575	4,31	
Oklahoma	2,474	277	1,349	334	569	1,34	
	,						
South Dakota	149	153	33	54	18	_ 1	
Tennessee	15,887	10,365	4,419	3,778	3,676	3,75	
Wisconsin	1,857	1,699	399	899	356	36	
AD District III Total	7,057	7,703	3,634	6,760	13,159	63,95	
Alabama	1,944	1,627	388	1,077	460	43	
Arkansas	1,048	1,014	189	392	105	8	
	,						
Louisiana	1,090	1,120	343	674	2,033	46,03	
Mississippi	1,476	1,325	344	426	973	1,11	
New Mexico	238	197	345	680	243	13	
Texas	1,262	2,420	2,025	3,511	9,345	16,15	
AD District IV Total	1,858	1,198	589	980	330	51	
Colorado	1,220	748	319	431	66	18	
	417			194			
Idaho		214	73		77	1	
Montana	7	26	_	1	3		
Utah	156	131	181	329	177	23	
Wyoming	57	79	16	25	9	8	
AD District V Total	23,261	27,199	4,094	6,845	1,605	3,15	
Alaska	564	670	¹ 15	22	2	,	
Arizona	61	36	113	135	52	5	
California	11,788		2,194	2,647	791	1,13	
	11,700	14,701	,	,		1,13	
Hawaii	_	_	6	3	4		
Nevada	337	295	83	86	12	1	
Oregon	7,799	7,254	1,189	3,049	591	1,39	
Oregon	1,100						

Table 18. Adjusted Sales of Kerosene by Energy Use, 2000 and 2001 (Continued)

Destination	Far	m	All C	ther	Tot	al
Destination	2000	2001	2000	2001	2000	2001
U.S. Total	23,084	27,162	5,921	3,535	1,036,014	1,108,926
PAD District I Total	7,515	8,366	1,957	1,776	827,752	844,021
Subdistrict IA Total	1,120	1,240	270	495	152,872	155,414
Connecticut	36	18	1	135	21,385	19,354
Maine	419	638	30	65	77,249	78,120
Massachusetts	27	6	74	71	12,943	16,198
New Hampshire	259	313	52	163	19,079	17,863
Rhode Island	_	_	35	_	3,558	7,017
Vermont	380	266	78	62	18,657	16,862
Subdistrict IB Total	3,053	4,251	784	900	428,040	444,346
Delaware	27	37	-	_	11,511	10,301
District of Columbia	21	51		_	10.341	8.709
	244	327	31	27	- / -	-,
Maryland					37,701	37,440
New Jersey	18	16	29	6	80,547	89,280
New York	936	827	482	475	144,589	144,679
Pennsylvania	1,829	3,045	241	392	143,351	153,936
Subdistrict IC Total	3,343	2,875	904	380	246,840	244,261
Florida	653	311	27	8	9,398	9,952
Georgia	515	42	1	6	11,748	11,164
North Carolina	555	484	584	87	95,847	94,499
South Carolina	686	1,217	79	71	28,626	27,792
Virginia	860	781	197	194	82,922	82,820
West Virginia	74	39	15	15	18,299	18.034
vvest virginia	7-7	00	10	10	10,233	10,004
PAD District II Total	12,069	12,502	1,991	1,137	147,201	139,675
Illinois	802	824	195	110	10,945	10,777
Indiana	892	810	443	226	19,195	18,905
lowa	1,595	1,536	71	90	3,146	3,905
Kansas	219	673	57	22	1,517	1,721
		874			,	,
Kentucky	1,382		128	35	20,799	16,911
Michigan	269	787	81	26	18,196	12,699
Minnesota	2,651	384	106	108	6,451	9,975
Missouri	127	131	28	138	4,422	4,986
Nebraska	208	257	53	33	642	869
North Dakota	230	33	21	17	465	345
Ohio	1,346	4,151	81	89	27,160	33,268
Oklahoma	147	136	555	53	5,094	2,148
South Dakota	35	81	11	20	246	317
Tennessee	263	138	35	119	24,280	18,152
Wisconsin	1,904	1,688	125	52	4,642	4,698
DAD District III Total	4.040	0.040	4.070	200	00.400	00.005
PAD District III Total	1,346	3,848	1,273	338	26,469	82,605
Alabama	10	19	466	_	3,268	3,154
Arkansas	57	690	8	5	1,406	2,186
Louisiana	447	17	266	41	4,178	47,885
Mississippi	26	26	3	1	2,822	2,889
New Mexico	344	102	48	67	1,218	1,182
Texas	463	2,994	482	224	13,576	25,308
DAD District IV Total	426	Enc	240	20	2.462	2 224
PAD District IV Total	136	596	249	29	3,163	3,321
Colorado	58	39	74	16	1,737	1,414
Idaho	30	33	1	8	597	464
Montana	19	492	2	_	32	524
Utah	28	30	3	3	545	730
Wyoming	1	1	169	2	252	188
PAD District V Total	2,018	1,850	451	255	31,429	39,304
Alaska	_,0.0	-	-	_	581	693
Arizona	4	_	_	5	230	230
California	643	481	170	152	15,587	19,115
Hawaii	0-0	-	-	102	10,307	7
Nevada	20	9	5	_	457	407
Oregon	671		43	38		
		933			10,294	12,666
Washington	680	427	232	59	4,271	6,187

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 2000-2001 and "Petroleum Supply Annual," Volume 1, 2000-2001, (DOE/EIA-0340(00)/1 - (01)/1).

Table 19. Adjusted Sales for Residential Use: Distillate Fuel Oil and Kerosene, 2001 (Thousand Gallons)

Parting the s		PDistillate Fuel Oil		W
Destination	No. 1	No. 2	Total	Kerosene
.S. Total	111,929	6,151,511	6,263,440	704,305
AD District I Total	4,597	5,464,406	5,469,003	582,448
Subdistrict IA Total	2,419	2,141,767	2,144,186	116,507
Connecticut	112	549,684	549,796	6,742
Maine	1.221	275,648	276,869	70,328
Massachusetts	,	'		,
	18	901,016	901,034	8,269
New Hampshire	1,069	181,727	182,796	14,819
Rhode Island	_	143,982	143,982	2,890
Vermont	_	89,710	89,710	13,459
Subdistrict IB Total	1,427	2,942,377	2,943,804	263,226
Delaware	_	40,580	40,580	4,745
District of Columbia	_	8,047	8,047	4
	110	193,798	193,908	19,761
Maryland		'		,
New Jersey	298	382,410	382,708	17,203
New York		1,475,337	1,475,337	100,395
Pennsylvania	1,020	842,205	843,225	121,118
Subdistrict IC Total	750	380,262	381,012	202,715
Florida	_	4,913	4,913	3,833
Georgia	52	2,406	2,458	7,605
North Carolina	99	125.934	126.033	84,907
		- ,	-,	,
South Carolina	140	16,811	16,951	20,896
Virginia	77	209,563	209,640	70,602
West Virginia	382	20,637	21,019	14,873
AD District II Total	70,633	547,653	618,286	85,756
Illinois	1,927	11,632	13,559	5,040
Indiana	5,647	27,405	33,052	15,025
lowa	3,679	13,914	17,593	1,538
Kansas	389	1,497	1,886	603
Kentucky	294	19,068	19,362	11,382
		•		,
Michigan	10,357	102,249	112,606	9,341
Minnesota	17,539	79,515	97,054	7,886
Missouri	2,286	14,861	17,147	3,279
Nebraska	1,266	2,179	3,445	438
North Dakota	3,051	17,808	20,859	175
Ohio	4,794	112,489	117,283	18,555
Oklahoma	43	65	108	277
South Dakota	4,682	10,857	15,539	153
	,	•		
Tennessee	1,173	5,874	7,047	10,365
Wisconsin	13,506	128,239	141,745	1,699
AD District III Total	108	2,463	2,571	7,703
Alabama	_	1,917	1,917	1,627
Arkansas	1	40	41	1,014
Louisiana	_	73	73	1,120
Mississippi	_	269	269	1,325
New Mexico	107	119	226	197
Texas	-	46	46	2,420
AD District IV Total	5.7EC	24 220	26,985	
	5,756	21,229	•	1,198
Colorado	295	1,847	2,142	748
Idaho	2,789	11,157	13,946	214
Montana	2,480	4,007	6,487	26
Utah	146	3,319	3,465	131
Wyoming	47	899	946	79
AD District V Total	30,834	115,760	146,594	27,199
Alaska	25,751	24,773	50,524	670
Arizona	13	167	180	36
California	357	7,773	8,130	14,701
Hawaii	. -	8	8	
Nevada	182	5,870	6,052	295
Oregon	1,879	27,289	29,168	7,254
Washington	2,653	49,878	52,531	4,243

Dashed (-) = No data reported. P = Preliminary.
Notes: • See "Technical Note 3" in Appendix A for further explanations on 2001 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 2001 and "Petroleum Supply Annual," Volume 1, 2001, (DOE/EIA-0340(01)/1).

Table 20. Adjusted Sales for Commercial Use: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 2001

			PD	istillate Fuel (Dil				
Destination	No.4		No. 2 D	istillate		No. 4	Total	PResidual	Kerosene
	No. 1 Distillate	No. 2 Fuel Oil	Low Sulfur Diesel	High Sulfur Diesel	No. 2 Total	No. 4 Fuel	Total Distillate	Fuel Oil	
U.S. Total	63,489	1,546,620	1,211,678	482,918	3,241,216	200,353	3,505,057	440,651	232,608
PAD District I Total	2,396	1,369,022	449,505	202,845	2,021,371	199,648	2,223,416	410,213	194,860
Subdistrict IA Total	565	444,012	60,743	12,147	516,902	29,064	546,531	58,604	30,483
Connecticut	217	105,256	26,584	1,013	132,853	4,488	137,558	6,550	9,684
Maine	73	91,128	5,993	3,359	100,480	1,153	101,705	7,420	6,402
Massachusetts	21	140,732	10,355	2,679	153,767	16,684	170,472	20,724	6,572
New Hampshire	103 152	57,097 20,483	9,420 2,848	436 253	66,953 23,585	3,496 1,723	70,552 25,460	3,256 17,015	2,238 4,117
Rhode Island Vermont	152	29,316	,	4,406	39,264	1,723	40,784	3,640	,
Subdistrict IB Total	1,193	815,245	5,542 143,202	68,117	1,026,565	169,044	1,196,802	330,278	1,470 138,781
Delaware	1,193	9,174	1,953	635	11,762	495	12,260	8,531	5,339
District of Columbia	_	16,203	2,384	1,057	19,643	2,239	21,883	54	8,705
Maryland	545	54,738	32,870	12,093	99,700	1,322	101,568	1,341	14,563
New Jersey	18	105,914	19,104	6,503	131,521	5,635	137,174	15,255	52,410
New York	452	466,522	46,264	14,507	527,294	153,903	681,648	285,263	36,704
Pennsylvania	176	162,693	40,204	33,324	236,644	5,449	242,269	19.833	21,060
Subdistrict IC Total	638	109,765	245,560	122,580	477,905	1,541	480,083	21,330	25,596
Florida	-	2,262	87,281	32.823	122,367	365	122.732	580	1,043
Georgia	33	2,387	41,204	21,501	65,093	-	65,126	7	2,571
North Carolina	298	27,151	59,438	38,198	124,787	39	125,124	5,057	8,079
South Carolina		6,559	17,507	6,888	30,955	133	31,087	4,498	1,680
Virginia	105	63,060	35,548	20,023	118,631	869	119,605	11,187	9,564
West Virginia	201	8,345	4,581	3,147	16,073	135	16,409	_	2,660
PAD District II Total	37,126	128,163	347,910	154,974	631,047	634	668,808	23,730	23,163
Illinois	6,621	17,705	37,888	14,805	70,397	_	77,019	2,316	2,715
Indiana	2,431	22,108	33,051	9,271	64,430	-	66,861	21	1,828
lowa	3,119	4,451	11,741	3,760	19,952	_	23,071	30	545
Kansas	2,804	1,337	27,448	2,634	31,419	_	34,223	266	282
Kentucky	318	4,137	23,921	18,917	46,974	339	47,631	238	2,437
Michigan	821	10,812	41,997	10,901	63,710	164	64,695	677	1,460
Minnesota	6,000	16,144	16,158	9,785	42,087	10	48,096	8,659	1,479
Missouri	1,812	7,007	22,385	34,908	64,301	_	66,113	1,154	983
Nebraska	4,231	512	4,712	858	6,083	_	10,314	834	109
North Dakota	1,356	4,213	4,615	914	9,742	_	11,099	1,443	105
Ohio	2,606	13,336	41,544	22,518	77,398	_	80,004	28	6,153
Oklahoma	8	- 0.440	25,840	2,687	28,528	_	28,535	-	334
South Dakota	1,010	3,418	4,842	1,390	9,650	-	10,660	193	54
Tennessee	188	2,818	26,554	10,007	39,379	121	39,688	7 072	3,778 899
Wisconsin	3,802	20,165	25,214	11,619	56,998	_	60,800	7,872	899
PAD District III Total	1,730	1,604	223,558	71,372	296,534	-	298,265	2,406	6,760
Alabama	_	578	30,282	10,643	41,502	_	41,502	_	1,077
Arkansas	4	19	18,807	10,590	29,416	_	29,420	-	392
Louisiana	24	_	9,254	4,445	13,699	_	13,723		674
Mississippi		26	9,782	6,634	16,442	_	16,442	1,964	426
New Mexico	1,421	736	11,301	3,890	15,927	_	17,348	_	680
Texas	281	246	144,132	35,170	179,549	_	179,829	443	3,511
PAD District IV Total	9,227	17,191	53,502	8,313	79,007	_	88,233	720	980
Colorado	1,796	1,473	20,556	307	22,336	_	24,132	_	431
Idaho	2,627	1,407	7,986	2,160	11,552	_	14,180	_	194
Montana	578	3,125	3,581	222	6,928	_	7,507	_	1
Utah	884	11,097	9,423	5,158	25,678	_	26,562	720	329
Wyoming	3,340	89	11,957	467	12,513	-	15,853	-	25
PAD District V Total	13,010	30,639	137,202	45,414	213,256	70	226,336	3,581	6,845
Alaska	10,899	13,054	2,139	20,599	35,792	14	46,704	_	22
Arizona	38	1	21,083	74	21,158	20	21,216	_	135
California	240	5,164	69,783	3,441	78,389	_	78,629	1,090	2,647
Hawaii	-	41	1,244	2,492	3,776	_	3,776	213	3
Nevada	161	1,684	7,372	78	9,134	_	9,295	_	86
Oregon	743	2,864	20,346	9,372	32,582	36	33,362	1,999	3,049
Washington	928	7,831	15,235	9,359	32,426	_	33,354	279	903

Dashed (-) = No data reported. P = Preliminary.

Notes: • See "Technical Note 3" in Appendix A for further explanations on 2001 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 2001 and "Petroleum Supply Annual," Volume 1, 2001, (DOE/EIA-0340(01)/1).

Table 21. Adjusted Sales for Industrial Use: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 2001

			PD	istillate Fuel (Dil				
Destination			No. 2 D	istillate				PResidual	Kerosene
	No. 1 Distillate	No. 2 Fuel Oil	Low Sulfur Diesel	High Sulfur Diesel	No. 2 Total	No. 4 Fuel	Total Distillate	Fuel Oil	
U.S. Total	44,200	353,825	848,826	1,033,342	2,235,993	43,604	2,323,797	1,188,683	141,317
PAD District I Total	1,334	225,826	118,179	374,461	718,467	40,277	760,079	889,844	56,572
Subdistrict IA Total	365	39,611	13,867	6,085	59,563	18,162	78,090	322,609	6,689
Connecticut	_	12,862	2,297	223	15,382	8,068	23,450	23,403	2,775
Maine	27	9,532	2,710	816	13,057	1,516	14,600	175,268	688
Massachusetts	28	6,917	7,495	4,363	18,775	5,475	24,278	85,376	1,280
New Hampshire	309	5,309	967	90	6,367	621	7,297	24,568	330 10
Rhode Island Vermont	_	1,578 3,414	181 217	14 579	1,773 4,209	1,205 1,277	2,978	8,095 5,899	1,605
Subdistrict IB Total	547	106,334	28,427	79,768	214,529	18,161	5,486 233,236	163,539	37,188
Delaware	547	1,181	1,251	79,766 247	2,678	681	3,359	20,451	181
District of Columbia	_	40	1,201	241	40	208	248	20,451	101
Maryland	547	16,507	3,171	6,202	25,880	1,106	27,532	20,935	2,762
New Jersey	-	25,363	5,910	476	31,749	6,372	38,121	22,466	19,645
New York	_	32,294	3,547	1,510	37,351	6,329	43,680	60,765	6,279
Pennsylvania	_	30,951	14,547	71,332	116,831	3,464	120,295	38.923	8,321
Subdistrict IC Total	423	79,881	75,885	288,609	444,376	3,954	448,753	403,697	12,695
Florida	-	3,159	17,689	49,006	69,855	719	70,574	108,081	4,756
Georgia	_	9,218	23,355	39,846	72.419	6	72,425	36,576	940
North Carolina	_	18,371	16,546	41,916	76,833	717	77,550	134,388	943
South Carolina	_	7,948	7,981	14,114	30,043	406	30,449	67,359	3,929
Virginia	15	26,300	6,488	59,409	92,196	2,101	94,313	48,242	1,679
West Virginia	407	14,885	3,827	84,318	103,030	5	103,442	9,051	448
PAD District II Total	19,265	110,720	210,124	355,439	676,283	2,039	697,588	170,941	17,116
Illinois	2,952	9,669	26,174	36,566	72,408	15	75,374	12,184	2,087
Indiana	5,055	26,100	23,899	76,958	126,957	451	132,463	15,553	1,016
lowa	617	3,299	10,471	2,049	15,820	_	16,436	1,717	197
Kansas	867	674	14,288	2,902	17,863	3	18,734	12,536	142
Kentucky	26	7,721	22,470	103,984	134,176	610	134,812	2,185	2,183
Michigan	1,344	5,262	11,410	15,018	31,690	240	33,273	11,156	1,085
Minnesota	1,606	14,532	12,633	619	27,784	2	29,391	24,193	117
Missouri	905	4,909	11,585	22,808	39,302	_	40,206	4,266	455
Nebraska	-	233	113	3,667	4,013	-	4,013	4,176	31
North Dakota	686	2,658	6,352	2,908	11,919	-	12,605	1,312	16
Ohio	618	8,085	26,857	43,960	78,902	322	79,841	35,078	4,319
Oklahoma		3,360 763	5,608	11,188	20,156	_	20,156	13,081	1,347
South Dakota Tennessee	416	7,053	5,689	476 17,172	6,929	260	7,345	4,023 5,792	10
Wisconsin	4,174	16,403	10,244 22,330	15,164	34,469 53,897	137	34,729 58,208	23,688	3,752 360
	,	,	,	,	ŕ			•	
PAD District III Total	2,802	8,568	196,376	204,293	409,237	755	412,794	110,566	63,955
Alabama	_	734	30,442	32,220	63,397	744	64,141	31,577	431
Arkansas	_	152	8,154	9,414	17,720	-	17,720	8,037	85
Louisiana	_	4,453	23,838	53,146	81,437	_	81,437	39,336	46,033
Mississippi	_	6	11,283	35,516	46,804	2	46,807	7,730	1,111
New Mexico	2,802	1,641	30,137	2,292	34,069	9	36,880	3,336	136
Texas	_	1,582	92,522	71,705	165,809	_	165,809	20,550	16,159
PAD District IV Total	9,692	6,370	174,848	15,372	196,590	_	206,283	3,816	519
Colorado	1,242	233	19,325	2,487	22,045	_	23,287	162	181
Idaho	1,627	5,787	7,085	8,869	21,740	_	23,367	894	15
Montana	841	_	17,287	208	17,496	_	18,337	99	6
Utah	1,252	347	24,133	3,696	28,176	_	29,428	_	237
Wyoming	4,730	4	107,018	112	107,134	-	111,865	2,662	81
PAD District V Total	11,107	2,339	149,299	83,776	235,415	532	247,054	13,515	3,156
Alaska	10,493	1,389	2,133	12,514	16,037	-	26,529	725	_1
Arizona	395		32,023	29,629	61,652		62,047	1,083	54
California	66	780	44,232	4,697	49,710	11	49,787	635	1,134
Hawaii		39	1,795	581	2,415	_	2,415	316	4
Nevada	117	_	34,806	9,913	44,718	502	45,338		16
Oregon	19	33	14,747	18,771	33,551	19	33,589	5,301	1,392
Washington	17	98	19,563	7,672	27,332	_	27,349	5,456	555

Dashed (-) = No data reported. P = Preliminary.

Notes: • See "Technical Note 3" in Appendix A for further explanations on 2001 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 2001 and "Petroleum Supply Annual," Volume 1, 2001, (DOE/EIA-0340(01)/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, 2001 (Thousand Gallons)

		Fa	rm		PElectri	c Power	POil Company Use		
Destination	^P Diesel	^P Other Distillate	^P Total Distillate	Kerosene	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	
U.S. Total	3,350,683	76,660	3,427,343	27,162	1,510,273	7,019,038	820,321	89,916	
PAD District I Total	447,148	40,812	487,960	8,366	563,878	5,416,839	21,453	60,030	
Subdistrict IA Total	13,850	13,491	27,341	1,240	19,812	485,039	186	160	
Connecticut	1,831	4,218	6,049	18	2,366	115,452	8	160	
Maine	3,224	3,520	6,744	638	43	37,579	-	_	
Massachusetts	2,696	737	3,432	6	10,456	290,631	178	_	
New Hampshire	1,637	3,059	4,696	313	2,473	41,376	_	_	
Rhode Island	42	15	57	-	2,809	_	_	_	
Vermont	4,421	1,942	6,362	266	1,665	4 604 454	42.050	- - -	
Subdistrict IB Total	83,689	23,883	107,572	4,251	146,860	1,621,151	13,959	59,560	
Delaware	6,817	11	6,828	37	6,037	143,524	8,664	32,760	
District of Columbia	40.004	270	10.604	227	19,562	440.200	-	465	
Maryland	19,234	370 570	19,604	327	63,687	140,380	58	465	
New Jersey	10,452	570	11,021	16	6,091	453,402	172	1,332	
New York	23,372	15,081	38,453	827	18,954	706,134	88	461	
Pennsylvania	23,813	7,852	31,665	3,045	32,528	177,710	4,977	24,541	
Subdistrict IC Total	349,609	3,438	353,047	2,875	397,206	3,310,649	7,307	310	
Florida	116,914	889	117,803	311	173,071	2,975,235	198	_	
Georgia	135,440	4.050	135,440	42	36,002	27,952	919	-	
North Carolina	41,116	1,850	42,966	484	54,669	4.405	1	75	
South Carolina	20,715	1	20,716	1,217	33,887	4,125	-	76	
Virginia West Virginia	32,894 2,530	664 34	33,558 2,564	781 39	80,525 19,052	303,338	207 5,982	159 -	
PAD District II Total	1,763,708	30,084	1,793,792	12,502	255,035	300,705	52,553	17,275	
Illinois	153,373	1,259	154,632	824	18,382	158,080	375	64	
Indiana	86,956	3,006	89,962	810	35,630	18,150	66	_	
lowa	227,728	7,573	235,302	1,536	7,599	850	_	_	
Kansas	154,730	2,987	157,717	673	11,507	30,099	6,287	_	
Kentucky	35,789	1,434	37,222	874	6,810	467	995	3,203	
Michigan	52,568	635	53,203	787	35,918	87,769	26	2,789	
Minnesota	134,067	4,385	138,452	384	15,830	3,917	_	3,505	
Missouri	62,874	1	62,875	131	15,828	_	74	_	
Nebraska	195,197	789	195,985	257	3,184	_	_	_	
North Dakota	113,921	682	114,603	33	1,783	242	5,931	_	
Ohio	83,415	680	84,095	4,151	40,164	1,130	1,917	2,620	
Oklahoma	63,823	_	63,823	136	11,765	_	36,802	452	
South Dakota	65,830	1,434	67,264	81	1,239	_	72	_	
Tennessee	35,610	73	35,683	138	40,656	_	9	_	
Wisconsin	297,827	5,147	302,974	1,688	8,741	-	-	4,642	
PAD District III Total	626,577	791	627,368	3,848	409,010	623,845	687,933	51	
Alabama	25,605	_	25,605	19	24,426		78	_	
Arkansas	136,106	_	136,106	690	5,343	57,764	2,300	_	
Louisiana	76,923	_	76,923	17	32,262	101,986	359,035	_	
Mississippi	82,864	588	83,453	26	3,263	442,112	5,200		
New Mexico Texas	20,927 284,151	203	20,927 284,354	102 2,994	3,622 340,095	21,984	29,760 291,560	51 -	
PAD District IV Total	154,837	4,807	159,644	596	23,894	,	20,455	_	
Colorado	41,326	4,807 216	41,541	39	23,894 15,105	_	4,301	_	
Idaho	52,531	364	52,895	33	504	_	4,301	_	
	32,738	4,189	36,927	492	558	_	2,877	_	
Montana Utah	13,583	4,109	13,586	30	2,553	_	246	_	
Wyoming	14,660	35	14,695	1	5,175	_	13,023	_	
PAD District V Total	358,414	166	358,580	1,850	258,456	677,649	37,927	12,560	
Alaska	7	1	8	_	63,711	_	27,022	_	
Arizona	23,421	_	23,421	_	24,523	16,068	114	_	
California	261,324	34	261,358	481	25,691	23,514	7,926	12,560	
Hawaii	6,961	_	6,961	_	117,563	552,651	60	-	
Nevada	3,939	10	3,949	9	1,059	85,416	26	_	
Oregon	30,618	112	30,730	933	13,407	_	218	_	
Washington	32,144	9	32,153	427	12,502	_	2,562	_	

Dashed (-) = No data reported. P = Preliminary.

Notes: • See "Technical Note 3" in Appendix A for further explanations on 2001 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 2001 and "Petroleum Supply Annual," Volume 1, 2001, (DOE/EIA-0340(01)/1). • See "Technical Note 3" in Appendix A for further explanation of Electric Power.

Table 23. Adjusted Sales for Transportation Use: Distillate Fuel Oil and Residual Fuel Oil, 2001 (Thousand Gallons)

	PRailroad Use	PVessel B	unkering	On-Highway Diesel	PTotal Transportation Use		
Destination	Distillate Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	
U.S. Total	2,951,831	2,093,252	3,679,843	33,215,320	38,260,403	3,679,843	
PAD District I Total	506,390	461,460	1,156,432	10,283,551	11,251,401	1,156,432	
Subdistrict IA Total		40,579	31,857	1,054,431	1,122,729	31,857	
Connecticut	5,522	2,692	56	271,949	280,164	56	
Maine		10,290	20,411	157,265	168,020	20,411	
Massachusetts	,	22,349	11,390	400,652	443,574	11,390	
New Hampshire		346	_	99,664	100,040	-	
Rhode Island		4,290	_	54,843	59,176	_	
Vermont	,	611	700 400	70,058	71,756	-	
Subdistrict IB Total		144,230	706,423	3,757,549	4,039,190	706,423	
Delaware		1,156	51,215	56,556	57,945	51,215	
District of Columbia	,	10 23,219	21,048	27,358	31,502	21,048	
Maryland		23,219 82.410	412,025	499,563 833,297	526,309 929,238	412,025	
New Jersey New York		15,003	125,827	956,982	929,236	125,827	
Pennsylvania		22,434	96,308	1,383,793	1,496,300	96,308	
Subdistrict IC Total		276,652	418.152	5,471,571	6,089,482	418,152	
Florida	,	138,187	336,619	1,284,054	1,529,325	336,619	
Georgia	,	23,320	25,779	1.406.878	1,500,736	25,779	
North Carolina	,	13,079	4,143	954,529	1,045,369	4,143	
South Carolina	,	14,860	11,084	618,958	649,754	11,084	
Virginia	,	27,831	40,528	936.738	1,025,723	40,528	
West Virginia	,	59,375	_	270,414	338,575	_	
PAD District II Total	1,051,950	317,628	20,409	10,946,605	12,316,183	20,409	
Illinois	, ,	53,573	20,409 553	1,242,862	1,370,734	553	
Indiana	,	19,020	6,777	976,154	1,019,694	6,777	
lowa	,	5,584	0,777	494,746	515,843	0,777	
Kansas	,	783	_	366,378	403,141	_	
Kentucky		89,942	27	813,305	1,003,059	27	
Michigan		4,155	2,805	898,950	913,518	2,805	
Minnesota	53,796	4,417	7,102	629,517	687,730	7,102	
Missouri	23,649	64,321	165	911,037	999,007	165	
Nebraska	2,515	_	_	365,060	367,575	_	
North Dakota	46,833	_	_	149,766	196,599	_	
Ohio	,	3,632	2,704	1,468,979	1,640,565	2,704	
Oklahoma		158	_	947,603	1,302,119	_	
South Dakota				148,841	153,906		
Tennessee	,	62,109	168	867,065	1,020,537	168	
Wisconsin	45,881	9,935	109	666,342	722,158	109	
PAD District III Total	883,259	1,152,632	1,124,095	5,743,372	7,779,262	1,124,095	
Alabama	55,777	77,727	28,588	680,321	813,825	28,588	
Arkansas	/	298	_	580,583	679,747	_	
Louisiana	,	695,539	406,209	599,491	1,356,027	406,209	
Mississippi	24,812	21,578	51,183	503,217	549,606	51,183	
New Mexico	18,077	1		402,953	421,031		
Texas	624,730	357,489	638,115	2,976,807	3,959,026	638,115	
PAD District IV Total	222,513	38	_	1,569,650	1,792,201	_	
Colorado	·	_	_	510,659	550,419	_	
Idaho	23,961	38	_	218,109	242,109	_	
Montana	59,704	_	_	197,340	257,044	_	
Utah	24,197	_	_	336,377	360,574	_	
Wyoming	74,890	_	_	307,165	382,055	-	
PAD District V Total	287,719	161,494	1,378,906	4,672,142	5,121,355	1,378,906	
Alaska	- , -	67,063	2,142	111,433	182,842	2,142	
Arizona		· –	· –	675,847	680,852	,	
California		51,532	976,144	2,627,366	2,862,264	976,144	
Hawaii	,	20,376	105,285	32,754	53,130	105,285	
Nevada		· -	· –	267,368	273,406	· –	
Oregon		8,405	46,647	414,373	475,840	46,647	
Washington	35,903	14,118	248,689	543,001	593,022	248,689	

Dashed (-) = No data reported. P = Preliminary.

Notes: • See "Technical Note 3" in Appendix A for further explanations on 2001 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 2001 and "Petroleum Supply Annual," Volume 1, 2001, (DOE/EIA-0340(01)/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, 2001

		PMil	itary		^P Off-Highway Distillate Fuel Oil			All Other					
Destination	Diesel	Other Distillate	Total Distillate	Residual Fuel Oil	Construction	Other	Total	PDistillate Fuel Oil	PResidual Fuel Oil	Kerosene			
U.S. Total	309,808	36,253	346,060	13,685	2,086,388	428,404	2,514,791	-	3,503	3,535			
PAD District I Total	44,508	27,563	72,071	8,621	550,348	149,206	699,554	_	3,287	1,776			
Subdistrict IA Total	3,791	9,678	13,469	1,501	54,713	10,493	65,206	-	151	495			
Connecticut	337	3,532	3,869	349	11,684	260	11,943	_	151	135			
Maine	2,325	4,558	6,883	1,153	9,684	1,212	10,896	_	-	65			
Massachusetts	310	233	543	_	21,351	2,600	23,951	_	_	71			
New Hampshire Rhode Island	777 16	1,255 1	2,033 18	_	8,908 1,810	4,761 1	13,669 1,811	_	_	163 -			
Vermont	25	99	125	_	1,276	1,659	2,935	_	_	62			
Subdistrict IB Total	7,756	11,326	19.082	6,087	204,969	21,399	226,368	_	_	900			
Delaware	313	561	874	497	3,912	1,338	5,250	_	_	-			
District of Columbia	891	2,620	3,511	14	1,204	-	1,204	_	_	_			
Maryland	3,225	1,826	5,050	3,245	44,564	2,571	47,134	_	_	27			
New Jersey	263	1,234	1,497	286	40,245	8,817	49,062	_	_	6			
New York	332	1,431	1,763	1,358	34,586	3,667	38,253	-	-	475			
Pennsylvania	2,732	3,654	6,386	687	80,458	5,007	85,465	_	_	392			
Subdistrict IC Total	32,961	6,558	39,519	1,033	290,666	117,314	407,980	-	3,136	380			
Florida	9,268	_	9,268	_	76,346	10,729	87,075	_	3,136	8			
Georgia	3,721	2 202	3,721	-	65,765	44,755	110,520	_	_	6			
North CarolinaSouth Carolina	4,770 1,734	2,202	6,972 2,113	_	52,212	16,264	68,475 48,173	_	_	87 71			
Virginia	13,287	380 3,977	17,265	1,033	20,267 65,575	27,905 12,108	77,682	_	_	194			
West Virginia	180	- 5,977	180	1,035	10,501	5,554	16,055	_	_	15			
PAD District II Total	17,659	1,135	18,794	4,816	601,976	69,180	671,157	-	138	1,137			
Illinois	911	186	1,097	4,758	86,292	3,949	90,241	-	-	110			
Indiana	264	1	264	_	35,621	6,394	42,016	-	_	226			
lowa	6	_	6	_	34,873	2,451	37,325	_	5	90			
Kansas	5,788	_	5,788	58	24,353	901	25,254	_	23	22			
Kentucky	545 1,133	_	545 1,133	_	47,970 55,197	5,579 6,553	53,548 61,751	_	27	35 26			
Michigan Minnesota	3,038	_	3,038	_	40,689	10,138	50,827	_	_	108			
Missouri	1,798	322	2,120	_	65,048	6,959	72,007	_	12	138			
Nebraska	957	-	957	_	17,374	1,987	19,361	_	9	33			
North Dakota	515	_	515	_	11,212	750	11,962	_	_	17			
Ohio	1,386	_	1,386	_	59,896	6,361	66,257	_	51	89			
Oklahoma	67	_	67	_	36,695	2,427	39,122	_	11	53			
South Dakota	48	4	52	_	8,424	831	9,254	_	_	20			
Tennessee	261	25	286	_	32,763	7,991	40,754	-	-	119			
Wisconsin	942	598	1,539	-	45,568	5,910	51,479	-	_	52			
PAD District III Total	123,972	-	123,972	-	447,833	142,793	590,626	-	62	338			
Alabama	2,307	_	2,307	_	37,111	32,321	69,431	_	_	_			
Arkansas	216	_	216	_	27,676	43,709	71,384	-	-	5			
Louisiana	1,521	_	1,521	_	69,340	17,738	87,078	_	_	41			
Mississippi	7,997	-	7,997	-	27,591	20,375	47,966	_	-	1			
New Mexico Texas	31 111,900	_	31 111,900	_	17,782 268,334	2,715 25,936	20,497 294,270	_	31 32	67 224			
PAD District IV Total	4,504	9	4,513	_	124,351	21,738	146,090	_	16	29			
Colorado	388	9	397	_	56,649	2,797	59,447	_	_	16			
Idaho	3,726	_	3,726	_	11,103	9,369	20,473	_	_	8			
Montana	123	_	123	_	8,418	6,219	14,637	_	_	_			
Utah	267	-	267	_	23,772	1,719	25,492	-	-	3			
Wyoming	1	_	1	-	24,408	1,633	26,041	_	16	2			
PAD District V Total	119,164	7,546	126,710	248	361,880	45,485	407,365	_	_	255			
Alaska	5,268	3	5,272	_	7,095	2,738	9,833	_	_	-			
Arizona	-	-	-	-	31,957	2,636	34,593	_	_	5			
California	28,223	-	28,223	133	263,919	18,196	282,115	-	_	152			
Hawaii	26,341	-	26,341	115	3,657	2	3,660	-	_	-			
Nevada	936 232	-	936 232	_	19,900 11,204	870 7,918	20,769 19,122	_	-	38			
Oregon									_				

Dashed (-) = No data reported. P = Preliminary.

Notes: • See "Technical Note 3" in Appendix A for further explanations on 2001 preliminary data.• Totals may not equal sum of components due to

independent rounding.

Sources: • See Treatmica Note 3 in Appendix A for future explanations on 2001 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 2001 and "Petroleum Supply Annual," Volume 1, 2001, (DOE/EIA-0340(01)/1).

Appendix A

Technical Notes

Appendix A

Technical Notes

Note 1: EIA-821: Annual Fuel Oil and Kerosene Sales Report, 2001

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 nonenergy 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:

$$\hat{V} = \sum_{h} N_{h} \left(\sum_{i} W_{h-i} V_{h-i} / \sum_{i} W_{h-i} \right)$$

where:

 \hat{V} = total estimated volume

 \sum_{k} = denotes summation over strata

 N_{k} = stratum population for stratum h

 \sum_{i} = denotes summation over units within

stratum h

 V_{h} = volume reported for unit i in stratum h

 W_h = weight attached to unit i in stratum h.

where: W_{h-i} 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 2001 EIA-821 data: distillate, 2.3 percent for military use to 27.4 percent for off-highway use; residual fuel oil, 0.0 percent for all other uses to 5.4 percent for industrial use; and kerosene, 5.3 percent for all others uses to 11.9 percent for farm 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:

$$VAR(\hat{V}) = \sum_{h} n_{h} \left(1 - \frac{n_{h}}{N_{h}}\right) S_{h}^{2}$$

$$S_{h}^{2} = \frac{\sum\limits_{i=1}^{n_{h}} W_{i}^{2} V_{i}^{2} + \overline{V}_{i}^{2} \sum\limits_{i=1}^{n_{h}} W_{i}^{2} - 2 \overline{V}_{h}^{\sum\limits_{i=1}^{n_{h}} W_{i}^{2} V_{i}^{2}}{n_{h} - 1}$$

$$\overline{V}_{h} = \frac{\sum\limits_{i=1}^{n_{h}} W_{i} V_{i}}{\sum\limits_{i=1}^{n_{h}} W_{i}}$$

 \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 = weight for unit i.

Response rates also offer some indication of the reliability and comprehensiveness of survey results. For the 2001 EIA-821 survey, the overall response rate (the number of submissions received, divided by the number of submissions solicited and expected, times 100) was 92.4 percent.

Coefficients of Variation for Sales of Fuel Oil, 2001

Geographic Area	Residential Distillate Fuel Oil	Non-Residential Retail Distillate Fuel Oil	Retail Residual Fuel Oil		
J.S. Average	1.9	0.9	0.1		
PAD District I Average	2.1	1.2	0.1		
Subdistrict IA Average	2.6	1.3	0.1		
Connecticut	5.2	3.3	0.1		
Maine	5.0	3.3	0.0		
Massachusetts	4.9	2.3	0.1		
New Hampshire	5.7	2.9	0.0		
Rhode Island	4.0	2.9	0.0		
Vermont	4.8	2.8	0.4		
Subdistrict IB Average	3.4	1.5	0.1		
Delaware	3.3	1.8	0.0		
District of Columbia	0.0	0.1	0.0		
Maryland	4.0	2.3	0.0		
New Jersey	4.5	2.8	0.0		
New York	6.1	2.4	0.1		
Pennsylvania	4.6	3.3	0.1		
•					
Subdistrict IC Average	3.4	2.0	0.1		
Florida	9.4	5.9	0.0		
Georgia	8.4	3.9	0.0		
North Carolina	5.5	3.4	0.2		
South Carolina	6.1	3.9	0.0		
Virginia	5.2	2.9	0.1		
West Virginia	6.7	3.5	0.0		
PAD District II Average	3.2	1.6	0.1		
Illinois	7.1	8.5	0.0		
Indiana	8.0	4.3	0.0		
lowa	12.5	3.7	0.0		
Kansas	12.8	3.7	0.0		
Kentucky	6.0	2.5	0.0		
Michigan	6.8	3.9	0.0		
Minnesota	5.3	4.0	0.1		
Missouri	27.6	7.3	0.0		
Nebraska	15.9	5.5	0.0		
North Dakota	7.0	7.1	0.0		
Ohio	6.2	3.2	0.0		
Oklahoma	31.8	4.3	0.5		
South Dakota	6.7	4.3	0.0		
Tennessee	8.3	4.5	0.0		
Wisconsin	10.1	8.4	0.4		
			•		
PAD District III Average	47.6	2.5	0.0		
Alabama	63.8	3.5	0.0		
Arkansas	15.7	4.3	0.0		
Louisiana	0.0	5.2	0.0		
Mississippi	0.1	3.1	0.0		
New Mexico	19.7	4.7	0.0		
Texas	24.0	4.2	0.0		
PAD District IV Average	5.6	1.3	0.1		
PAD District IV Average					
Colorado	55.9	3.2	0.0		
Idaho	5.2	2.8	0.0		
Montana	6.3	2.0	0.0		
Utah	10.1	2.0	0.1		
Wyoming	1.1	2.8	0.0		
AD District V Average	4 E	2.0	0.0		
PAD District V Average	4.5	2.8	0.0		
Alaska	4.6	2.3	0.0		
Arizona	0.0	2.2	0.0		
California	16.7	5.1	0.0		
Hawaii	0.0	0.6	0.0		
Nevada	0.1	4.4	0.0		
Oregon	6.1	5.2	0.0		
Washington	10.9	5.0	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 2001.

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 1997 through 2001 special fuels, more than 99 percent is diesel.

Tables 13 through 24:

The 2000 data were revised due to a change in the Electric Power data. The original 2000 data consisted of the EIA-759, "Monthly Power Plant Report," and the FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." Data were revised for 2000 to include nonutility information that was missing from the original published data. The 2000 revised data consist of EIA-759, FERC-423, EIA-860B, "Annual Electric Generation Report-Nonutility," and the EIA-900, "Monthly Nonutility Power Report." The 2001 data are preliminary and will be revised when the Electric Power data from the EIA-906, "Power Plant Report" are complete. 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 other forms. For year 2000 data: the EIA-759, EIA-860B, EIA900, an the FERC-423 were used. Form EIA-759 collects consumption data for light oils include No. 2 fuel oil, kerosene, and jet fuel; the heavy oils include No. 4 fuel oil, residual fuel oil, and crude oil. Using receipt data from Form FERC-423, the No. 4 fuel oil receipts were deleted from the heavy oil consumption data and added to the light oil consumption data. The resultant distillate and residual consumption data were added with Form EIA-860B distillate and residual consumption data and the stock change of distillate and residual, respectively, from Forms EIA-759 and EIA-900 to obtain the estimate of sales for 2000. For year 2001 data: the EIA-906 and FERC-423 were used. Form EIA-906 consumption data for distillate and residual was added to the stock change of distillate and residual, respectively. The FERC-423 data was used as above in 2000. 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 1997 through 2001 special fuels, more than 99 percent is diesel.

1997 through 2001 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 2001 survey resulted in 679,431 thousand gallons of kerosene at the national level. The products supplied volume at the national level for kerosene was 1,108,926 thousand gallons. Hence, the adjustment factor at the national level for 2001 was 1.63.

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 2001 are as follows:

Distillate Fuel Oil

PAD District I: .95
PAD District II: 1.00
PAD District III: 1.16
PAD District IV: .90
PAD District V: .65

For Tables 13 through 24, total sales at the PAD district level equal the products supplied volumes as reported in the PSA, 1997 through 2001. For example, the 2001 survey yielded a volume for distillate residential use in PAD District II of 620,807 thousand gallons. The total distillate volume for PAD District II was 5,914,575 from the survey, after subtracting the volume coming from alternate sources. The product supplied total distillate volume for PAD District II was 5,890,554 after removing alternate source volume. Hence, the adjusted 2001 estimate of distillate for residential use in PAD District II was $(5,890,554/5,914,575) \times 620,807 = 618,286$.

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 power use.

Volumes of residual fuel oil in Tables 13 through 24 were adjusted at the national level to equal the products supplied estimate. The 2001 survey yielded 13,609,379 thousand gallons of residual fuel oil, while the products supplied volume at the national level was

12,435,318 thousand gallons. Thus, the adjustment factor at the national level for 2001 was .68, 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:

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

- 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.
- 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 I:

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

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

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

PAD District II:

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

PAD District III:

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

PAD District IV:

Colorado, Idaho, Montana, Utah, and Wyoming

PAD District V:

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. For the provisions concerning the confidentiality of information and sanctions, see Sections V and VI of the instructions.

PART I. IDENTIFICATION DATA

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

							ouii i ot	JO 00.				
		Provide Correction	ns to Company Name, Addr	ess, and	Contact informat	tion in Items	1-8					
1.	Company Name			7. Nar	me of Contact P	Person						
2.				8. Contact Information a. Telephone Number								
3.	P.O. Box / RFD			b. Fa	ax Number				_ 			
4.	City 5. State 6. Zip Code			c. Email Address							_	
9.	Reference Year 10.	Type of Report (C	Check One)				Number of					
	2001	001 (1) \square Original (2) \square Resubmis:			Which You Are Reporting ssion							
12	. Which of the following best des	scribes this firm at t	the end of 2001?	13.	Effective Date	of Status Cl	hange					
a.	☐ In operation - Sales inc	clude Skip to and	I complete items 22-25 and	nd Month				n	Day	Ye	ar	
	petroleum products	raitii										
b.	(1) □ Sold or Merged(2) □ Leased	that portion	Complete items 13 to 25, and Part II for that portion of 2001 in which the firm was active under your ownership and control		m Subsidiary of / Agent for:							
C.	Permanently ceased operation	operation complete items 22-25 and Part II for the portion of 2001 in which the firm was		ne as								
		active unde	r your ownership and contro	16.	Contact's Telep	phone Numi	ber					1
d.	☐ Subsidiary of another		tems 13 to 25, and Part II fo			-		-				
e.	□ Commissioned Agent	was active	n of 2001 in which the firm under your ownership and									
С.	□ Commissioned Agent	control		18. PO Box / RFD								
f.	f.			19. City 20. State 21. Zip Code								
PF	REPARED BY: Check	k appropriate box.	If preparer is different fro	m conta	act person, com	plete lines 2	24 and 25.					
22. Preparer same as contact person shown on label				23. Date								
24. Preparer's Name			25. Preparer's Telephone number									

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	· - /					
Name of Firm Reporting		DOE ID Number	Reference Year 2001	Page_	of	
PART	II. TOTAL SALES DURING TI	HE REFE	RENCE YEAR. (READ PA	GES 2-5 OF INSTRUC	TIONS (CAREFULLY)
Line	T (5 1 111		States of Dest	ination (<i>Enter</i> STANDA	RD ABB	REVIATIONS)
No.	Type of Fuel and Use					
	Sold directly to consumers for	Kero	sene (Report in Actual Gallon	rs)		
1	Residential Use (Non-Farm):					
2	Commercial Use:					
3	Industrial Use:					
4	Farm Use:					
5	All Other Uses (Include own compan	y use):				
6	Sold to Dealers, Resellers, and Refine	ers:				
7	Total Kerosene (Add Lines 1 thru	5)				
	Sold directly to consumers for	Distilla	ate Fuel Oil (Report in Actua	al Gallons)		
	Residential Use (Non-Farm):					
8	No. 1					
9	No. 2					
	Commercial Use (See Reference Gui	de):	Report sales of diesel to automo exception of government vehicle			
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 Mi	ning):				
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 Boat	ing):				

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Name o	f Firm Reporting	DOE ID Number	Reference Year 2001	Page of						
PART	II. TOTAL SALES DURING THE REFE	RENCE YEAR. (READ F	PAGES 2-5 OF INSTRU	CTIONS CAREFULLY)						
Line No.	Type of Fuel and Use	States of De	stination (<i>Enter</i> STANDA	RD ABBREVIATION)						
INO.	Type of Fuel and OSE									
	Distillate Fuel OilContinued (Report in Actual Gallons)									
	Military Use:									
23	Diesel									
24	Other Distillate									
25	Electric Power Use (Utility and Nonutility):									
	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	T	T							
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 (Utility and Nonutility):									
41	All Other Uses (Specify):									
42	Sold to Dealers, Resellers, and Refiners:									
43	Total Residual (Add Lines 34 thru 42)									

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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) 827-9514, Attn: EIA-821