

Fuel Oil and Kerosene Sales 2000

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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 2000* 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 2000* report provides information, illustrations and State-level statistical data on end-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 utility, 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 utility, 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 2000*.

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. Historically, kerosene estimates have always been adjusted at the PAD district level. However, in 1992, certain kerosene estimates at the PAD district level resulted in negative numbers. Hence, the adjustment procedure was changed to display positive sales volumes of kerosene for all PAD districts. Thus the kerosene figures in Tables 13 through 24 are identical to those shown in Tables 1 through 12.

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

- Some products are interchangeable (fungible) and may be supplied as one product and sold as another product. For example, kerosene, low-sulfur kerosene-type jet fuel, and low-sulfur No. 1 fuel oil can be used interchangeably.
- Products supplied into a PAD district may be blended prior to final sale. For example, residual fuel and No. 2 distillate may be blended and sold as No. 4 fuel oil or, in colder climates, kerosene may be blended with distillate fuel oil and sold as heating oil.
- Geographic differences can be attributed to the transportation of product by truck or rail from the district of production. Inter-PAD district movements of products by these modes of transportation are not accounted for in Tables 13 through 24.
- Products may be supplied into a PAD district but the final sale may cross PAD district boundaries. For example, a fuel oil dealer in Ohio (PAD District 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 2000

Fuel oil sales in 2000 can be characterized by continuation of long-term trends in both the distillate and residual fuel oil markets. Overall distillate demand increased for the ninth consecutive year, to reach an all time high of more than 59.6 billion gallons. Buoyed by the continued strength of the U.S. economy during 2000, total distillate sales increased 3.5 percent over the level of sales achieved in 1999. By comparison, the residual fuel oil market continued to shrink in comparison to 1999. Despite the continuation of the long-term down trend in sales that with the exception of 1996 and 1998, has characterized the residual fuel oil market for more than a decade, the rate of decline slowed to 0.9 percent compared to the drop of 9.5 percent the year before. Total sales of kerosene also decreased, dropping 7.3 percent from the level set in 1999.

Distillate sales accounted for an even greater share of the fuel oil market in 2000 than they had in 1999. (Distillate sales accounted for 80.7 percent of total fuel oil sales compared to 79.9 percent in 1999). Once again, the shift in the proportion of total fuel oil sales came

primarily as the result of declining sales to the electric power sector. Residual fuel oil sales fell below eighteen percent of total fuel oil sales, accounting for 17.9 percent of total fuel oil sales for the first time.¹ Kerosene sales accounted for the remaining 1.4 percent of total sales.

Distillate Fuel Oil

Despite a year sharply higher prices for petroleum products, sales of distillates in 2000 increased to a record 59.6 billion gallons. The year-to-year volume increase of 3.5 percent in total U.S. sales represented a jump in consumption of more than 2 billion gallons. Once again, the strong demand resulted in large measure from the continuation of economic growth during most of the year. The economy as measured by Gross Domestic Product (GDP) grew 5.0 percent for the year compared to an increase of 4.2 percent in 1999. At the same time, unemployment fell to 4.0 percent, its lowest point since 1970.²

Table HL1. Volume Distribution of Distillate and Residual Fuel Oils, 1999 and 2000

End Use	Distillate 2000		Distillate 1999		Residual 2000		Residual 1999	
	Volume (million gallons)	Percent Share	Volume (million gallons)	Percent Share	Volume (million gallons)	Percent Share	Volume (million gallons)	Percent Share
Residential	6,830	11.5	6,302	11.0	—	—	—	—
Commercial.....	3,706	6.2	3,338	5.8	644	5.0	646	4.8
Industrial	2,331	3.9	2,478	4.3	1,585	12.0	1,700	12.8
Oil Company.....	686	1.2	659	1.2	154	1.2	124	0.9
Farm.....	3,455	5.8	3,412	5.9	—	—	—	—
Electric.....	1,015	1.7	816	1.4	4,363	33.0	4,990	37.4
Railroad.....	3,291	5.5	3,239	5.6	—	—	—	—
Vessel Bunkering.....	2,261	3.8	2,419	4.2	6,410	48.5	5,838	43.8
On-Highway.....	33,130	55.6	32,062	55.7	—	—	—	—
Military.....	306	0.5	357	0.6	28	0.2	26	0.2
Off-Highway	2,589	4.3	2,490	4.3	—	—	—	—
Other	0	0.0	0	0.0	7	0.1	4	0.0
Total	59,600	100.0	57,572	100.0	13,211	100.0	13,328	100.0

Sources: Energy Information Administration, Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," 1999 and 2000.

¹Sales of residual fuel oil to the electric power industry surged in 1998 and exceeded 20 percent of the total fuel oil sales for the first time since 1994. For details, see *Sales of Fuel Oil and Kerosene*, Energy Information Administration, 1999, p 4.

²GDP data are from: *Economic Indicators*, April 2001, Washington D.C. U.S. Government Printing Office, p1-2, 19; Employment statistics are from *Economic Indicators*, P. 12.

Demand for on-road diesel reached another all-time high in 2000, increasing to 33.1 billion gallons, accounting for roughly 56 percent of total distillate demand.

Despite a winter slightly warmer than normal in the key regions for heating oil sales, sales of distillate to the residential sector increased by 8.4 percent to 6.83 billion gallons. For the U.S. in general, the winter weather was about 2.5 percent warmer than normal, but about 5.1 percent colder than the previous year. However, in New England the winter was only 0.2 percent warmer than normal and 7.4 percent colder than in 1999.

Commercial use of distillates, driven by both the strength of the economy and by the colder temperatures, increased 11.0 percent, or 364 million gallons, to 3.7 billion gallons. Sales to the industrial sector decreased by 146 million gallons to total 2.3 billion gallons.

Despite sharply higher prices for distillate fuel, the strength of the economy coupled with the fact that energy prices in general were significantly higher than during 1999 bolstered distillate sales, and contributed to increases in distillates sales in nearly every sector of the market. The residential and commercial sectors benefited: as total expenditures for new construction grew by 5.68 percent.³

Off-highway diesel, a sector heavily dependent on construction orders, also grew as a result of the healthy economy and new construction activity. Off-highway sales increased 99 million gallons, or 4.0 percent, to 2.6 billion gallons.

Direct use of distillates by oil companies increased as drilling and other oil and gas company activities increased as higher prices drove increase exploration and development activity during the year. The number of rotary rigs for the years averaged 918, or about 47 percent over the average of 625 rotary rigs in 1999. The increased in company activity, driven by the high crude oil and natural gas prices during much of the year, resulted in total demand of 686 million gallons, or 27 million gallons above the total for the previous year.⁴

Sales of distillate to the agricultural sector were mixed largely as the result of widely varying weather conditions raging from drought to unusually favorable conditions. The drought plaguing much of the South and West reduced the wheat crop and in general curtailed demand in the affected regions. In the farm belt of the mid-continent, conditions favored the farmer and stimulated demand for distillates as the highest level of soybean production on record and the second largest corn harvest in history were recorded. Nationally, sales to the agricultural sector increased slightly, totaling nearly 3.5 billion gallons up about 43 million gallons or 1.3 percent from the level achieved in 1999.⁵

Reflecting fundamental changes in the utility sector, distillate sales to electric utilities surged, to an all-time high. Sales increased by nearly 200 million gallons or 24.4 percent. For the first time, total distillate sales to the utility sector exceeded one billion gallons. A combination of factors fostered the jump in sales. Although record high prices for natural gas made oil more attractive to those with fuel switching capacity, structural changes in the electric power sector also played a significant role in the shift in fuel use.

Restructuring of the electric power industry is changing patterns of fuel use. As utilities were either required to or voluntarily decided to divest generation assets changes occurred not only in ownership but also in how the plants are operated. Some plants, especially older less efficient units have become peaking units rather than base load units. Now, often running just when economic conditions justify, such plants are less sensitive to fuel costs. They may blend distillate with residual fuel oil, mix it with natural gas or even when equipment and conditions warrant burn only the lighter lower sulfur exclusively in order to meet increasingly stringent environmental restrictions. In addition, concern in some areas of the country about the ability of the electric power system to meet peak summer demand led to the instillation of addition smaller peaking units that typically run on distillate as an alternative to natural gas or simply run on distillate exclusively.

Sales of distillate to railroads increased for the second consecutive year. The gain was slightly less than in 1999 at 1.6 percent, an increase of nearly 52 million gallons for a total of 3.29 billion gallons. Sales to railroads were at the highest level since 1996.

³*Economic Indicators*, April 2001, Government Printing Office, p.19.

⁴The number of working rigs at year-end, increased by nearly 50 percent from 625 in 1999 to 918 in 2000. U.S. Average Rig Counts by State, Baker Hughes (Hughes Christensen), 1999, 2000. See also, EIA *Monthly Energy Review*, Table 5.1.

⁵Department of Agriculture, National Agricultural Statistics Service, *Statistical Highlights 2000 & 2001: Overview, U.S. Crop Summary*, p 4-5.

Despite the overall strength of distillate sales, not all sectors of the distillate market improved. Sales of distillates for vessel bunkering declined by 6.5 percent to less than 2.3 billion gallons, the lowest level of sales since 1994. Sales to the military sector declined about 50 million gallons for a year total of 306 million gallons.

On a regional basis,⁶ the increase in sales of distillate to the residential market usage limited to PAD District I (the East Coast). Total distillate sales in the PAD District reached 5.9 billion gallons, an increase of 11.1 percent. Although sales increased throughout the region, the largest increase occurred in Subdistrict IB, the Middle Atlantic, where sales increased by 14.1 percent.

Sales in Subdistrict IA, the New England, were boosted by an unusually strong cold snap in January that resulted in a pronounced price spike.⁷ The severity of the weather exacerbated market conditions by impeding delivery of both oil and natural gas to some areas. The result: prices for both natural gas and heating oil (already pushed higher because stocks of both products were low) surged in mid-January.

The price spike was limited to the Northeast where consumption of heating oil is concentrated, although the region accounts for only about 22 percent of total demand for distillate fuels, approximately 80 percent of the total U.S. heating oil demand occurs in the region. Some larger customers of natural gas whose service was interrupted or who had voluntarily switched to distillate fuel added pressure to an already stressed distillate market. Spot heating oil prices (New York Harbor) rose 133 percent between January 14 and February 4, 2000 and prices in New England increased by two-thirds from \$1.18 to \$1.97 per gallon.⁸

Sales of distillate to the residential sector in all other PAD districts declined, primarily as the result of milder than normal winter temperatures.

Commercial volumes similarly increased the most in PAD District I, particularly in the Northeast, where distillate sales increased 22.2 percent, or nearly 120 million gallons, for total sales of 658 million gallons.

Overall sales of distillate to the commercial sector in PAD District I, totaled 2.3 billion gallons.

As would be expected with higher crude and product prices, oil companies increased exploration and development activities. Consequently, distillate sales for direct use by oil companies increased. The most pronounced increase occurred in PAD District III (the Gulf Coast) where the majority of oil production takes place in the United States. Oil company direct usage in the Gulf Coast region increased by 39 million gallons to total 544 million gallons and account for nearly 80 percent of total oil company sales.

While the drought lessened demand for distillates in the agricultural sector of PAD District III, the region's warmer than normal summer boosted demand in the utility sector. Sales in the region increased by 207 million gallons from just 41 million gallons the previous year.

Sales of distillate fuels to the utility sector were mixed on a regional basis, increasing in PAD District I, PAD District III, and PAD District IV (the Rocky Mountains). Sales declined in PAD District II (the Midwest) a major coal-consuming region and in PAD District V (the Pacific Coast). Sales in PAD District V may have been adversely affected by developments late in the year in the electric power market in California.

Residual Fuel Oil

Once again, as overall sales of residual fuel oil fell, the utility sector was primarily responsible for the bulk of the drop in sales of approximately 117 million gallons. Nonetheless, both the magnitude of the overall drop in total residual sales and the drop in utility sales were considerably more moderate than was the case in 1999. Total sales of residual fuel dropped by less than one tenth as much as during 1999, and the drop in utility sales represented about 40 percent the size of the decline that occurred in 1999. For the third consecutive year, bunker sales increased sharply thereby helping to counterbalance the decline in sales to the utility market.

⁶The U.S. is divided into 5 Petroleum Administration for Defense districts (PAD District). 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.

⁷Seasonal price increases for both natural gas and heating oil are the norm during the winter months as demand for both products increases sharply and inventories diminish as temperatures drop. Each year, to prepare for the coming winter, refiners step up production of heating oil and gas producers build gas storage inventories well in advance of the onset of colder weather. Nonetheless, circumstances may combine to produce unusual seasonal patterns that result in dramatic swings in price, where prices spike well above typical winter highs.

⁸For a more detailed account of the dynamics of the winter 1999-2000, please see: *Impact of Interruptible Natural Gas Service on Northeast Heating Oil Demand*, Energy Information Administration, Office of Oil and Gas, Washington, January 2001.

In recent years, restructuring of the electric power sector has contributed to a fundamental change in the patterns of fuel purchase and use by electric power generators. Over the past three years, sales of residual fuel oil to the electric power sector have fluctuated greatly. In 2000, sales declined by 627 million gallons, a drop of 12.6 percent. Despite the magnitude of the drop, sales to the electric power sector fell by less than 45 percent as much as they did in 1999 compared to 1998.⁹ Falling demand responded to weather, prices of competing fuels, changing practices in the electric power sector, and environmental constraints. Despite cooler temperatures than were experienced the previous winter, the heating season of 2000 was still milder than normal.¹⁰ Although much of the country experienced warmer than normal summer temperatures, the principal fuel oil consuming areas experienced a cooler than normal summer.¹¹

Prices for fuel rose sharply in late 1999 and remained at their highest levels in years for most of 2000. The prolonged period of higher prices acted as a window of opportunity for residual fuel to compete favorably at times with natural gas and even occasionally with coal. However, increased flexibility in fuel use and plant operations as more plants were divested becoming merchant plants where blending of fuels to achieve greater efficiency and to lower emissions of dirtier fuels (oil blended with natural gas and even oil and coal), choosing to purchase power rather than generate electricity or to buy and re-sell fuel contracted for reduced the advantage that fuel oil might have had under similar circumstances just a few years earlier.

Finally, environmental constraints on the operation of plants further reduced the demand for heavier higher sulfur fuel oils and stimulated sales of lighter oil to the electric power sector (see above). As was the case in 1999, the drop in sales of residual fuel oil to the electric power sector overwhelmed the gains made in the bunker market and resulted in the overall demand for residual fuel oil falling slightly by 1.0 percent in comparison to 1999.

The drop in total sales of residual fuel oil should be viewed in the context of the long-term decline in sales of approximately 40 percent between 1987 and 2000.

Although price volatility and other considerations, such as the sustained outages of facilities,¹² may result in significant increases in regional or even national sales of residual fuel to the utility market for any given year, such conditions as occurred in 1998 are unlikely to be long-term. Nationally, as new power plants come on line, most will be gas fired further reducing demand. The drop in sales during 2000 fits the long-term well-established trend of declining sales of residual fuel oil. Regionally, the New England market will continue to shrink significantly as gas flows into the region from Sable Island reach their expected levels. Nonetheless, residual fuel oil sales will remain a viable niche market, serving as back-up fuel, stock, safety valve, and hedging tools in the electric power market.

Sales of residual fuel oil to the industrial sector declined in 2000 as it had in 1999 and 1998. The drop in industrial sales of residual fuel oil was greatest in the New England region of PAD District I and in PAD District V along the Pacific Coast.

Reversing the impact of low prices during 1998 and the early months of 1999, higher crude oil and product prices led to increased spending by oil companies for exploration, development, and other projects.¹³

The bright spot in residual sales remained the bunker market. Bunker sales increased by 9.8 percent, 572 million gallons, up sharply from the robust sales of 1999 when sales increased by nearly 4 percent. Bunker sales increased in every region of the U.S. with the exception of Pad District IV where bunker fuel is not marketed. The largest increases occurred in the Middle Atlantic and Southeastern portions of PAD District I and in PAD District III along the Gulf Coast. Sales in the Gulf Coast were boosted by favorable arbitrage opportunities as coker outages resulted in a glut of bunker in the region. Favorable economics also helped to boost sales in a number of small niche markets such as Mobile and Baltimore over such ports as New York and Philadelphia. Although sales increased only 2.8 percent in PAD District V, that region experienced a significant increase in 1999 of more than 20 percent.

⁹Unusual conditions combined in 1998, to propel sales to electric utilities to 1.8 billion gallons. Sales in 1999 and again in 2000 have moved back into a pattern common over the past several years of generally falling demand.

¹⁰The U.S. as a whole was 5.1 percent colder than in 1999 as measured in heating degree-days but was still 2.5 percent warmer than normal. The only exceptions were New England recording a winter 7.4 percent cooler than in 1999 and 0.2 percent colder than normal.

¹¹Summer temperatures in New England, the Middle Atlantic and the East North Central regions of the country were between 8 and 12 percent cooler than normal. In New England, the summer was some 37 percent cooler than in 1999 and the Middle Atlantic, which was just 24.4 percent cooler, and the East North Central was 17.6 percent cooler.

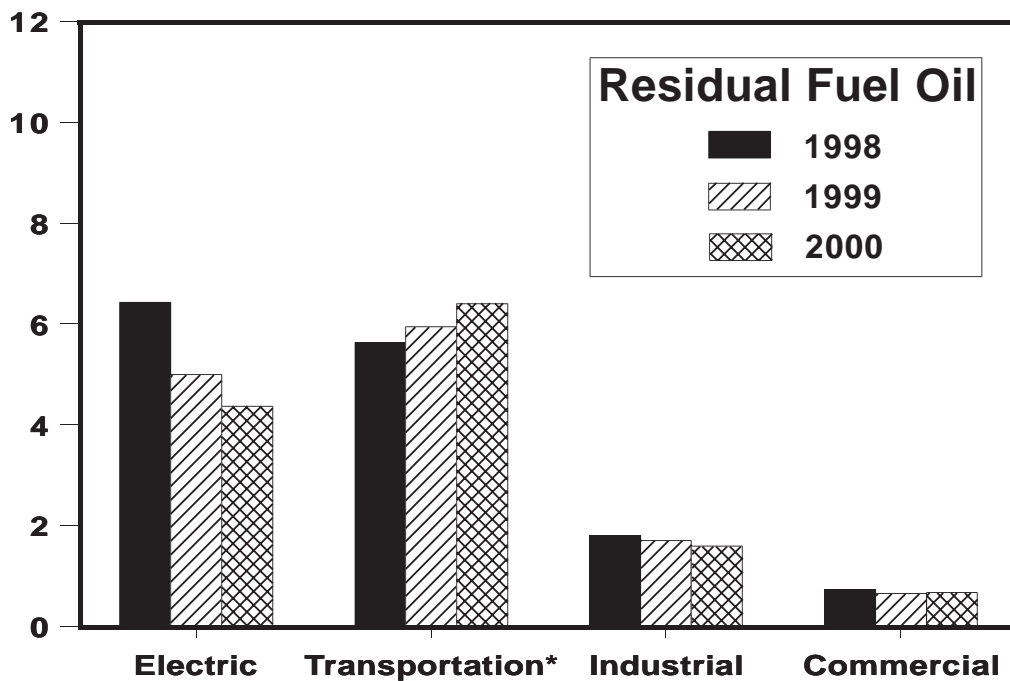
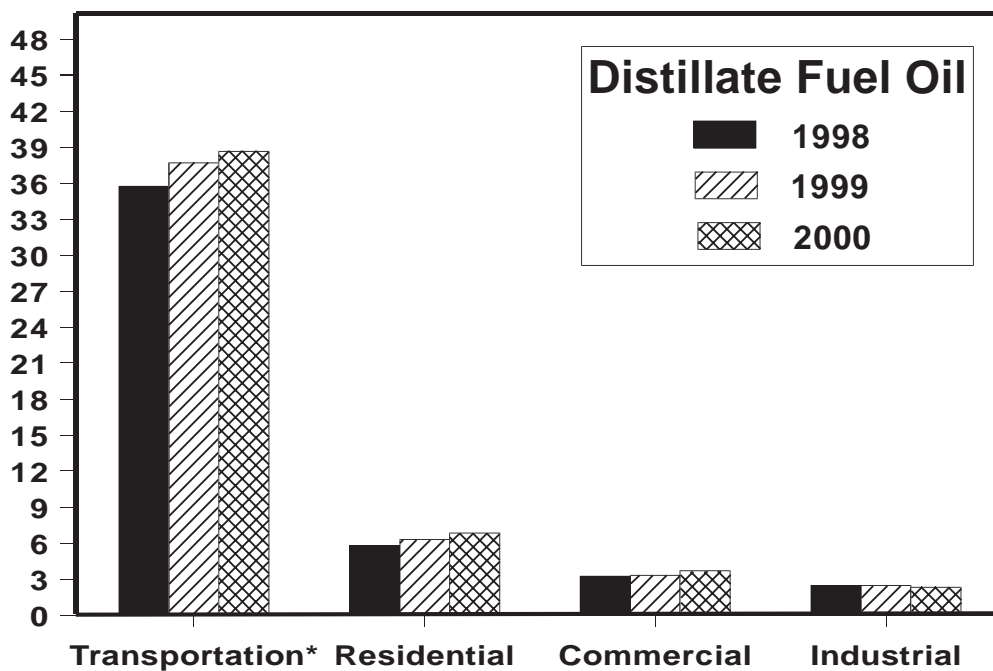
¹²For example, the outage of several nuclear plants that boosted sales in the New England regional market in 1997 and 1998.

¹³See footnote 4 for details.

Kerosene

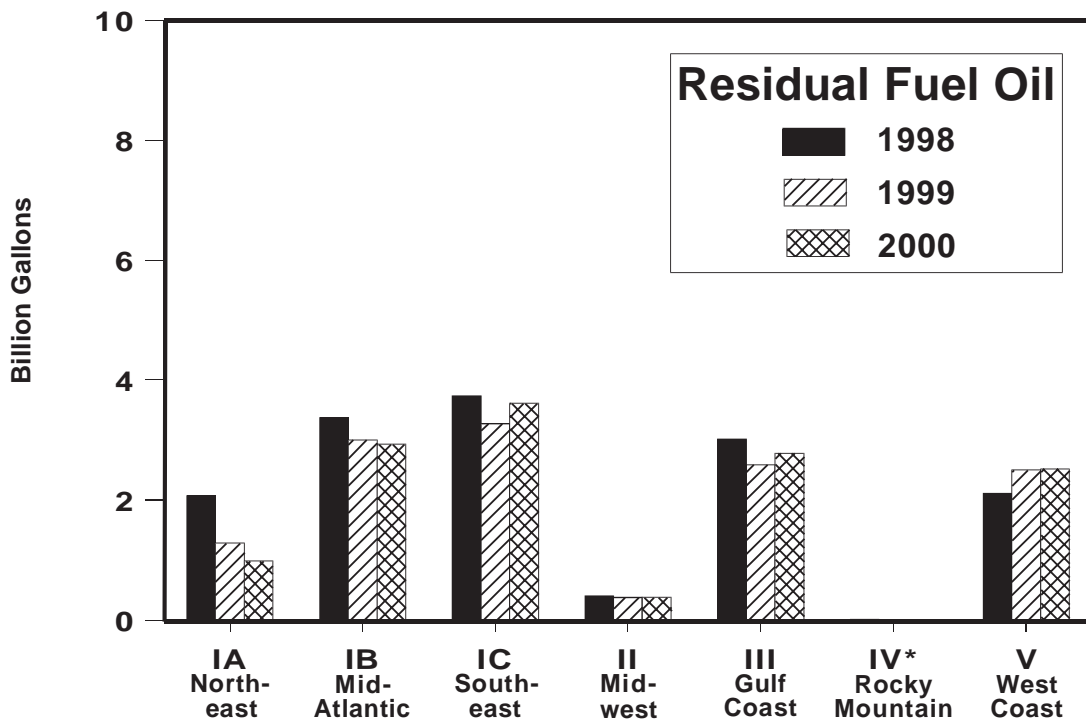
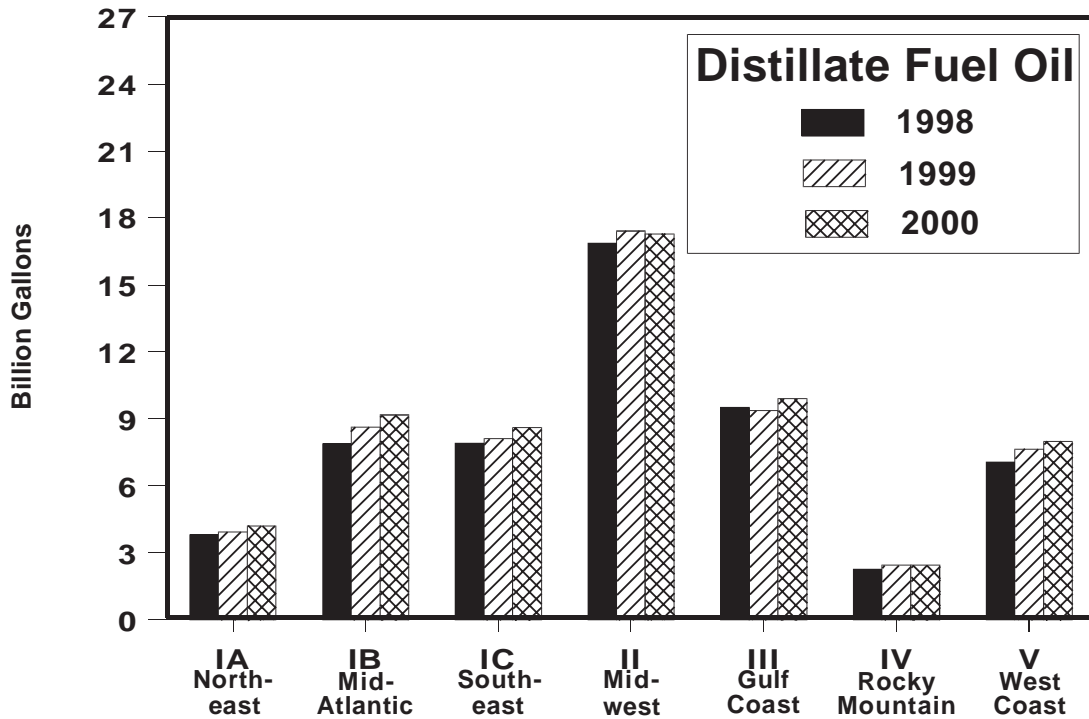
For the second year in a row, kerosene sales fell, remaining just over 1 billion gallons. Sales fell by 7.3 percent compared to a drop of 6.6 percent in 1999. Sales to the commercial sector increased by nearly 20 million gallons, a jump of 10 percent. Counteracting that increase, sales to the residential sector fell but still accounted for approximately 68 percent of total kerosene sales followed by the commercial sector at approximately 21 percent.

Figure HL1. U.S. Sales of Distillate and Residual Fuel Oils by End Use, 1998-2000



*For distillate fuel oil, transportation use comprises railroad, vessel bunkering, and on-highway diesel end-use categories. For residual fuel oil, transportation use comprises the vessel bunkering end-use category.
 Sources: Energy Information Administration, Form EIA-821, "Fuel Oil and Kerosene Sales Report," 1999 and 2000.

Figure HL2. Volume Distribution of Distillate and Residual Fuel Oils by PAD District, 1998-2000

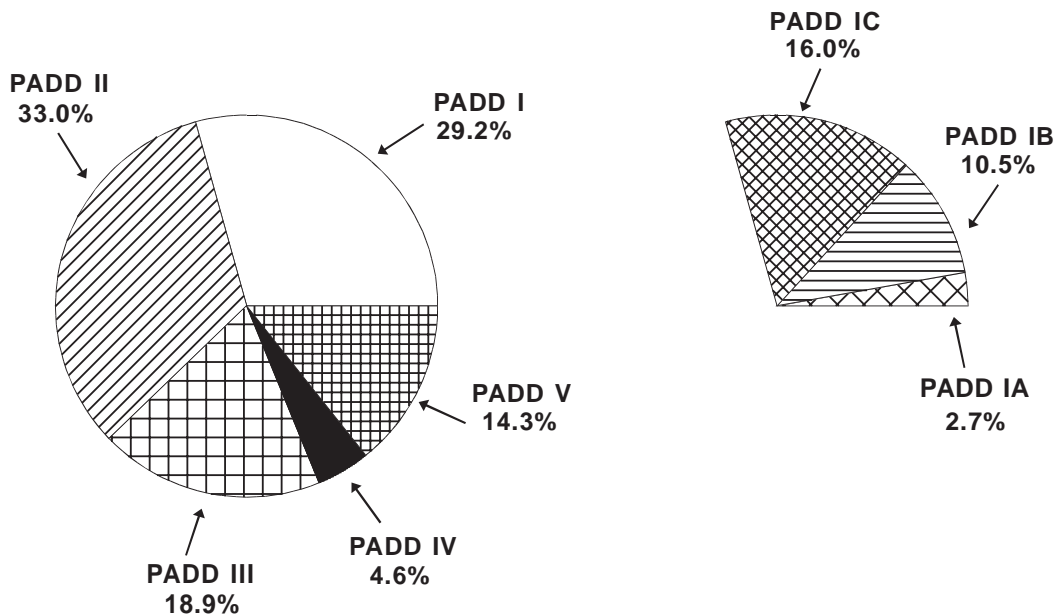


*Residual fuel oil sales in PAD District IV are too small to appear in this graph.

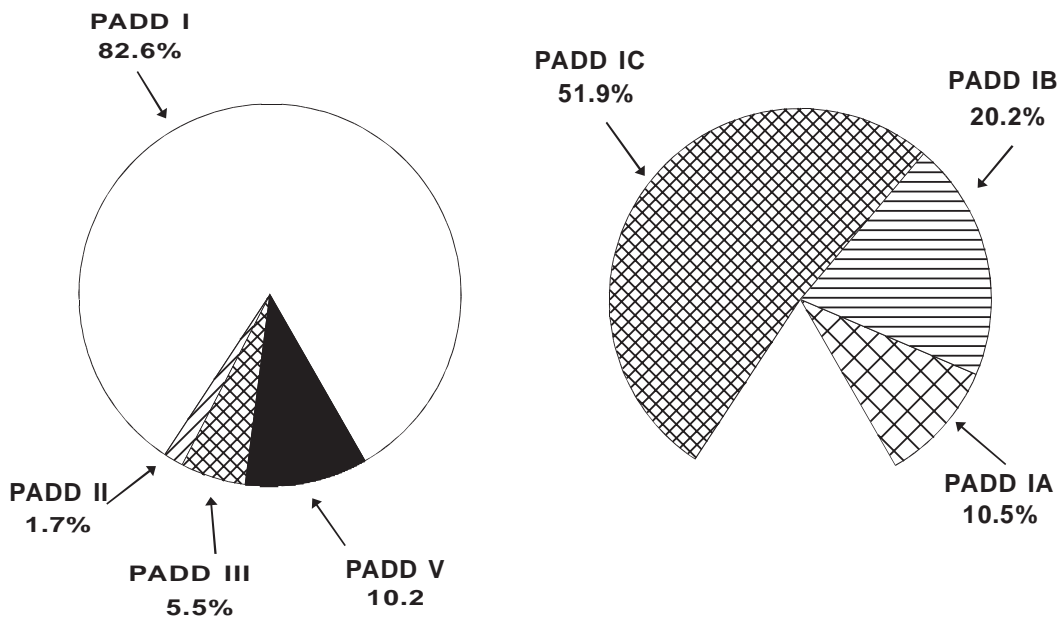
Sources: Energy Information Administration, Form EIA-821, "Fuel Oil and Kerosene Sales Report," 1999 and 2000.

Figure HL3. Distillate and Residual Fuel Oil Sales for Selected End-Use Categories by PAD District, 2000

Distillate: Transportation



Residual: Electric Utility



Sources: Energy Information Administration, Form EIA-821, "Fuel Oil and Kerosene Sales Report," 2000.

Table 1. Sales of Distillate Fuel Oil by End Use in the United States: 1996-2000
(Thousand Gallons)

End Use	Distillate Fuel Oil				
	1996	1997	1998	1999	2000
U.S. Total	53,379,033	54,366,495	55,305,694	57,573,018	59,601,230
Residential	6,910,018	6,531,416	5,819,959	6,302,466	6,830,455
Commercial	3,603,620	3,314,956	3,233,350	3,338,242	3,706,345
Industrial	2,288,689	2,309,615	2,462,355	2,477,719	2,330,870
Oil Company	730,676	852,015	783,719	659,039	686,454
Farm	3,591,383	3,547,699	3,410,801	3,411,623	3,454,861
Electric Utility	657,881	636,002	840,731	816,008	1,015,100
Railroad	3,446,939	3,277,802	3,180,124	3,239,044	3,290,507
Vessel Bunkering	2,490,793	2,573,800	2,595,076	2,419,336	2,261,422
On-Highway Diesel	26,958,668	28,614,022	30,150,191	32,062,447	33,129,664
Military	454,443	432,621	352,189	356,602	306,170
Off-Highway Diesel	2,245,922	2,276,548	2,477,199	2,490,492	2,589,383

Dashes (-) = No data reported.

Note: 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 1996-2000.

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

Table 2. Sales of Residual Fuel Oil by End Use in the United States: 1996-2000
(Thousand Gallons)

End Use	Residual Fuel Oil				
	1996	1997	1998	1999	2000
U.S. Total	13,256,998	12,504,135	14,729,841	13,328,058	13,210,935
Commercial	927,834	789,674	715,111	645,927	664,360
Industrial	2,089,436	1,898,611	1,797,906	1,700,054	1,585,140
Oil Company	167,425	160,477	127,464	123,984	153,522
Electric Utility	4,304,492	4,599,084	6,431,746	4,990,083	4,362,680
Vessel Bunkering	5,701,233	5,010,059	5,620,417	5,838,128	6,409,863
Military	56,225	42,164	33,648	25,702	28,427
All Other	10,354	4,065	3,549	4,181	6,942

Note: 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 1996-2000.

Table 3. Sales of Kerosene by End Use in the United States: 1996-2000
(Thousand Gallons)

End Use	Kerosene				
	1996	1997	1998	1999	2000
U.S. Total	948,990	1,009,932	1,196,580	1,118,124	1,036,014
Residential	657,636	688,025	802,348	823,436	700,532
Commercial	155,792	182,559	230,743	199,577	219,633
Industrial	102,322	110,738	123,246	58,279	86,844
Farm	26,017	21,556	26,823	26,312	23,084
All Other	7,223	7,054	13,420	10,521	5,921

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

Note: Kerosene data in the Sales tables (1-12) are adjusted at the national level. See Technical Note 3 for further explanation.

Sources: • Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1996-2000, (DOE/EIA-0340(96)/1 - (00)/1).

Table 4. Sales of Distillate Fuel Oil by End Use, 1999 and 2000

(Thousand Gallons)

Destination	Residential		Commercial		Industrial	
	1999	2000	1999	2000	1999	2000
U.S. Total	6,302,466	6,830,455	3,338,242	3,706,345	2,477,719	2,330,870
PAD District I Total	5,323,022	5,915,257	2,095,496	2,346,499	766,697	711,827
Subdistrict IA Total	2,123,587	2,278,430	539,367	658,915	86,851	77,670
Connecticut	572,366	621,023	117,495	131,180	18,006	17,008
Maine	330,116	305,928	123,827	141,749	23,092	25,536
Massachusetts	790,563	899,021	169,885	228,901	20,449	16,736
New Hampshire	200,927	201,260	63,626	83,702	11,185	8,216
Rhode Island	140,200	143,441	22,593	27,642	6,433	4,473
Vermont	89,415	107,758	41,941	45,742	7,686	5,701
Subdistrict IB Total	2,797,684	3,192,052	1,139,322	1,203,992	268,081	232,621
Delaware	40,435	50,062	14,351	12,029	4,425	2,700
District of Columbia	9,255	9,582	14,860	24,683	-	17
Maryland	207,027	213,953	98,107	113,525	51,441	25,997
New Jersey	433,335	449,777	182,783	146,877	38,541	28,392
New York	1,257,211	1,549,169	618,531	665,223	60,185	49,707
Pennsylvania	850,421	919,510	210,691	241,656	113,489	125,807
Subdistrict IC Total	401,751	444,774	416,807	483,592	411,765	401,537
Florida	4,468	5,237	79,859	116,117	59,200	48,320
Georgia	2,426	3,148	53,713	54,421	55,537	66,210
North Carolina	131,627	142,382	95,865	117,796	77,871	73,290
South Carolina	22,299	21,212	46,250	33,356	33,375	26,047
Virginia	219,594	249,735	127,025	146,066	76,944	85,885
West Virginia	21,337	23,060	14,095	15,835	108,839	101,784
PAD District II Total	702,300	666,039	592,501	602,102	792,158	636,772
Illinois	22,521	18,116	65,021	70,461	86,346	71,510
Indiana	46,445	42,909	57,163	59,084	133,449	110,456
Iowa	23,814	21,171	21,592	21,135	30,841	13,796
Kansas	613	750	21,024	25,115	19,025	13,365
Kentucky	23,206	23,188	48,643	47,585	142,200	118,066
Michigan	132,807	127,632	62,157	69,344	55,707	40,282
Minnesota	93,223	100,882	39,409	39,077	43,532	48,399
Missouri	13,592	13,554	45,351	49,145	61,780	35,488
Nebraska	3,407	4,852	9,702	8,700	17,452	5,270
North Dakota	21,503	24,800	10,373	10,187	7,072	3,303
Ohio	152,234	131,897	80,297	76,527	76,176	72,876
Oklahoma	93	105	16,066	10,662	9,084	5,348
South Dakota	14,912	15,414	8,964	8,568	8,905	6,924
Tennessee	10,222	7,666	42,551	47,397	32,287	27,636
Wisconsin	143,709	133,105	64,187	59,116	68,303	64,054
PAD District III Total	1,556	1,083	214,083	336,107	404,313	407,699
Alabama	288	537	25,287	32,882	76,190	55,623
Arkansas	40	30	11,549	16,517	13,825	14,447
Louisiana	152	62	24,403	14,805	47,058	61,311
Mississippi	86	61	11,522	11,457	54,611	36,103
New Mexico	895	274	14,006	11,676	33,910	34,914
Texas	94	120	127,317	248,770	178,719	205,301
PAD District IV Total	36,261	32,244	107,590	85,603	184,213	200,602
Colorado	436	2,725	36,021	26,607	25,689	19,961
Idaho	21,089	17,417	22,833	18,999	26,150	29,335
Montana	9,984	7,470	6,295	6,271	16,339	15,299
Utah	3,497	3,483	26,279	16,107	33,550	36,186
Wyoming	1,255	1,150	16,163	17,619	82,485	99,822
PAD District V Total	239,328	215,831	328,572	336,034	330,338	373,970
Alaska	90,157	76,139	58,094	50,796	30,077	37,701
Arizona	158	174	41,915	38,144	84,957	95,061
California	7,594	10,604	121,756	136,504	62,132	70,965
Hawaii	12	14	11,525	9,604	2,141	3,169
Nevada	9,227	9,314	16,163	17,634	102,804	91,542
Oregon	48,301	43,215	36,968	43,705	31,269	46,901
Washington	83,878	76,372	42,150	39,648	16,958	28,630

See footnotes at end of table.

Table 4. Sales of Distillate Fuel Oil by End Use, 1999 and 2000 (Continued)

(Thousand Gallons)

Destination	Oil Company		Farm		Electric Utility	
	1999	2000	1999	2000	1999	2000
U.S. Total	659,039	686,454	3,411,623	3,454,861	816,008	1,015,100
PAD District I Total	10,664	20,926	480,528	473,878	349,863	389,981
Subdistrict IA Total	13	294	28,760	26,364	13,425	14,456
Connecticut	10	294	4,882	5,367	2,050	2,320
Maine	-	-	7,676	6,366	677	319
Massachusetts	2	-	5,756	3,086	7,693	7,080
New Hampshire	-	-	2,826	4,088	1,599	1,309
Rhode Island	-	-	362	108	1,261	1,532
Vermont	-	-	7,258	7,349	144	1,895
Subdistrict IB Total	5,383	13,830	125,148	118,998	103,186	112,622
Delaware	2,488	4,642	7,544	7,983	8,741	5,725
District of Columbia	-	-	-	-	22,854	16,552
Maryland	16	4	26,397	25,025	20,865	21,122
New Jersey	233	3,115	15,584	9,149	7,649	9,179
New York	9	7	42,093	46,484	2,723	3,852
Pennsylvania	2,637	6,063	33,530	30,358	40,354	56,192
Subdistrict IC Total	5,269	6,803	326,619	328,516	233,252	262,903
Florida	223	339	119,507	107,880	142,351	131,454
Georgia	810	331	105,295	116,912	24,740	34,454
North Carolina	124	170	39,755	44,474	23,587	43,122
South Carolina	-	110	14,823	16,543	14,546	20,785
Virginia	3	653	42,051	39,824	14,473	18,421
West Virginia	4,108	5,200	5,188	2,883	13,555	14,667
PAD District II Total	30,342	44,225	1,602,708	1,708,468	217,128	171,458
Illinois	308	1,493	153,584	177,252	12,809	11,695
Indiana	2,510	2,780	80,024	76,566	46,077	22,150
Iowa	-	-	188,729	220,555	11,950	5,341
Kansas	5,196	7,317	165,958	151,032	14,043	10,765
Kentucky	472	789	30,759	31,422	8,405	8,935
Michigan	333	-	84,241	72,917	28,294	21,637
Minnesota	-	4	138,167	117,553	8,651	6,020
Missouri	53	10	79,355	68,779	16,523	11,715
Nebraska	24	-	150,585	174,933	4,094	3,298
North Dakota	1,756	5,944	86,362	101,285	2,437	2,472
Ohio	309	2,383	74,932	73,038	41,708	36,105
Oklahoma	19,294	23,469	73,460	78,077	1,365	2,699
South Dakota	85	27	70,543	67,105	849	3,173
Tennessee	-	8	37,539	41,403	13,467	20,455
Wisconsin	2	-	188,472	256,551	6,455	4,997
PAD District III Total	504,727	543,958	606,617	535,423	41,806	249,290
Alabama	665	131	25,544	21,131	8,131	10,012
Arkansas	1,802	1,493	95,230	98,797	14,709	5,153
Louisiana	257,987	285,438	79,777	78,203	3,090	16,776
Mississippi	4,065	3,567	72,362	69,089	2,587	2,695
New Mexico	15,498	27,428	23,684	14,714	2,573	2,903
Texas	224,709	225,901	310,020	253,491	10,716	211,751
PAD District IV Total	20,453	24,328	183,473	183,375	8,571	10,868
Colorado	5,313	5,738	50,591	50,254	3,062	5,989
Idaho	-	-	50,475	51,551	9	17
Montana	2,105	1,901	51,885	48,997	94	17
Utah	1,889	2,697	12,985	14,349	2,003	1,744
Wyoming	11,147	13,992	17,537	18,224	3,403	3,100
PAD District V Total	92,852	53,017	538,298	553,717	198,639	193,503
Alaska	79,725	40,834	16	50	66,896	46,232
Arizona	86	112	32,399	26,226	5,826	9,674
California	11,759	9,840	393,575	400,500	7,841	10,124
Hawaii	94	71	11,127	12,009	111,661	115,238
Nevada	51	52	6,520	7,182	1,251	1,097
Oregon	269	678	50,347	67,335	2,292	6,157
Washington	870	1,430	44,313	40,416	2,872	4,983

See footnotes at end of table.

Table 4. Sales of Distillate Fuel Oil by End Use, 1999 and 2000 (Continued)

(Thousand Gallons)

Destination	Railroad		Vessel Bunkering		On-Highway	
	1999	2000	1999	2000	1999	2000
U.S. Total	3,239,044	3,290,507	2,419,336	2,261,422	32,062,447	33,129,664
PAD District I Total	464,528	547,557	501,069	536,999	9,939,376	10,228,244
Subdistrict IA Total	22,713	35,462	46,506	41,186	1,007,035	994,438
Connecticut	7,510	11,415	4,574	3,029	235,423	223,858
Maine	1,864	3,220	6,816	7,855	148,739	165,548
Massachusetts	12,001	19,783	22,943	23,061	377,063	398,877
New Hampshire	2	3	607	785	103,255	99,104
Rhode Island	303	-	11,111	5,837	55,570	54,105
Vermont	1,032	1,041	455	619	86,985	52,946
Subdistrict IB Total	117,168	185,720	175,665	204,600	3,673,911	3,659,966
Delaware	553	194	3,642	35,892	57,458	58,093
District of Columbia	3,775	3,997	3	3	22,114	23,124
Maryland	8,371	5,788	31,538	29,070	486,350	499,287
New Jersey	18,628	16,869	87,992	100,743	769,039	784,719
New York	33,253	46,503	15,397	15,873	1,011,088	946,272
Pennsylvania	52,589	112,369	37,094	23,020	1,327,862	1,348,471
Subdistrict IC Total	324,647	326,375	278,898	291,213	5,258,430	5,573,840
Florida	133,681	118,877	146,853	137,188	1,239,423	1,274,869
Georgia	77,197	75,925	18,588	25,642	1,322,651	1,381,691
North Carolina	56,616	65,877	11,848	9,560	879,015	1,017,088
South Carolina	13,708	16,858	13,373	13,893	590,776	617,908
Virginia	33,824	37,893	30,927	42,152	952,594	992,580
West Virginia	9,621	10,946	57,308	62,778	273,971	289,704
PAD District II Total	1,312,935	1,306,816	664,522	319,399	10,776,359	11,140,616
Illinois	143,077	114,022	44,071	50,480	1,292,335	1,275,542
Indiana	84,260	79,742	45,157	46,431	1,228,811	1,272,013
Iowa	43,678	27,296	8,258	5,571	494,842	496,774
Kansas	71,446	56,907	-	1,014	374,267	359,912
Kentucky	114,757	108,346	94,889	85,863	703,236	828,750
Michigan	55,112	46,642	4,572	5,244	905,067	911,342
Minnesota	70,984	66,504	6,862	4,541	604,536	656,568
Missouri	30,656	31,795	402,846	65,838	862,295	917,569
Nebraska	222,721	75,165	66	23	359,379	362,705
North Dakota	52,666	40,943	-	-	141,280	141,486
Ohio	93,521	158,541	3,389	3,809	1,516,451	1,504,632
Oklahoma	218,497	351,994	712	202	616,296	728,583
South Dakota	5,253	4,400	-	-	145,298	146,170
Tennessee	51,130	87,416	50,879	46,841	860,020	889,379
Wisconsin	55,177	57,103	2,822	3,543	672,246	649,191
PAD District III Total	732,550	665,606	856,429	1,002,114	5,376,448	5,643,703
Alabama	45,576	46,492	72,960	83,146	742,059	766,750
Arkansas	50,893	44,058	4,750	121	556,238	586,466
Louisiana	29,139	43,885	482,257	542,696	585,564	579,895
Mississippi	15,431	21,029	13,789	32,109	555,765	512,739
New Mexico	256	5,783	-	-	398,559	404,044
Texas	591,256	504,360	282,673	344,042	2,538,263	2,793,809
PAD District IV Total	251,806	286,651	403	144	1,484,538	1,474,611
Colorado	47,204	40,984	-	-	437,787	461,178
Idaho	27,664	38,929	236	124	214,688	215,438
Montana	57,879	65,801	-	-	187,434	189,707
Utah	21,762	27,837	33	20	300,016	337,256
Wyoming	97,297	113,100	134	-	344,613	271,032
PAD District V Total	477,225	483,878	396,913	402,765	4,485,726	4,642,490
Alaska	5,943	6,303	128,131	126,573	75,031	90,999
Arizona	4,051	6,141	33	35	660,624	630,293
California	272,045	298,536	130,368	158,566	2,458,325	2,632,760
Hawaii	-	-	27,993	21,188	32,680	33,506
Nevada	6,982	11,082	-	-	261,630	263,275
Oregon	116,791	118,846	17,841	15,056	428,584	E429,014
Washington	71,413	42,970	92,547	81,348	568,852	562,643

See footnotes at end of table.

Table 4. Sales of Distillate Fuel Oil by End Use, 1999 and 2000 (Continued)

(Thousand Gallons)

Destination	Military		Off-Highway		All Other		Total	
	1999	2000	1999	2000	1999	2000	1999	2000
U.S. Total	356,602	306,170	2,490,492	2,589,383	-	-	57,573,018	59,601,230
PAD District I Total	70,890	77,568	680,622	733,955	-	-	20,682,755	21,982,691
Subdistrict IA Total	6,097	9,251	68,267	67,107	-	-	3,942,619	4,203,572
Connecticut	792	2,251	11,833	15,121	-	-	974,942	1,032,867
Maine	3,013	4,797	15,050	10,731	-	-	660,870	672,048
Massachusetts	487	208	27,779	21,673	-	-	1,434,621	1,618,425
New Hampshire	1,027	1,816	6,787	13,211	-	-	391,841	413,493
Rhode Island	302	34	3,606	2,680	-	-	241,742	239,852
Vermont	476	145	3,212	3,691	-	-	238,603	226,886
Subdistrict IB Total	23,865	25,914	201,559	218,718	-	-	8,630,972	9,169,034
Delaware	351	417	6,617	5,997	-	-	146,605	183,734
District of Columbia	195	4,871	6,220	1,460	-	-	79,275	84,288
Maryland	4,184	4,451	27,089	41,735	-	-	961,385	979,957
New Jersey	1,078	702	37,727	38,291	-	-	1,592,589	1,587,812
New York	5,943	4,699	50,315	48,263	-	-	3,096,749	3,376,053
Pennsylvania	12,113	10,772	73,590	82,971	-	-	2,754,369	2,957,190
Subdistrict IC Total	40,928	42,403	410,797	448,130	-	-	8,109,163	8,610,086
Florida	9,693	14,358	103,184	117,422	-	-	2,038,442	2,072,062
Georgia	4,448	3,232	114,403	101,275	-	-	1,779,807	1,863,240
North Carolina	12,048	3,229	56,790	67,051	-	-	1,385,146	1,584,039
South Carolina	2,067	1,749	48,933	55,883	-	-	800,151	824,344
Virginia	12,340	19,666	70,782	87,210	-	-	1,580,557	1,720,085
West Virginia	333	170	16,705	19,289	-	-	525,061	546,316
PAD District II Total	42,116	38,262	688,477	644,728	-	-	17,421,548	17,278,885
Illinois	8,213	957	87,315	92,657	-	-	1,915,600	1,884,184
Indiana	4,013	302	35,415	50,519	-	-	1,763,324	1,762,952
Iowa	571	193	42,775	30,665	-	-	867,048	842,497
Kansas	206	485	23,792	25,221	-	-	695,570	651,881
Kentucky	2,393	1,015	45,936	44,779	-	-	1,214,897	1,298,737
Michigan	488	449	77,439	65,133	-	-	1,406,217	1,360,620
Minnesota	1,592	566	52,982	47,636	-	-	1,059,937	1,087,751
Missouri	4,761	3,196	74,770	55,851	-	-	1,591,982	1,252,940
Nebraska	3,063	1,114	18,104	19,641	-	-	788,596	655,701
North Dakota	568	417	9,586	10,646	-	-	333,602	341,482
Ohio	5,015	22,227	82,356	65,771	-	-	2,126,387	2,147,806
Oklahoma	152	372	27,705	40,018	-	-	982,724	1,241,529
South Dakota	2,315	29	10,757	10,796	-	-	267,880	262,607
Tennessee	1,818	631	47,555	38,373	-	-	1,147,469	1,207,205
Wisconsin	6,949	6,309	51,991	47,023	-	-	1,260,313	1,280,992
PAD District III Total	129,681	8,971	504,807	501,370	-	-	9,373,017	9,895,324
Alabama	2,162	2,439	63,232	52,319	-	-	1,062,093	1,071,461
Arkansas	1,244	196	45,635	62,282	-	-	795,913	829,560
Louisiana	4,780	2,491	90,623	81,483	-	-	1,604,831	1,707,045
Mississippi	3,098	2,588	43,092	35,276	-	-	776,408	726,712
New Mexico	1,336	315	23,352	22,812	-	-	514,069	524,862
Texas	117,062	942	238,874	247,198	-	-	4,619,702	5,035,684
PAD District IV Total	2,724	3,463	171,616	149,815	-	-	2,451,648	2,451,704
Colorado	499	659	59,721	68,026	-	-	666,322	682,120
Idaho	632	511	32,051	25,275	-	-	395,826	397,597
Montana	195	49	17,581	17,526	-	-	349,791	353,038
Utah	1,217	2,181	30,653	22,831	-	-	433,885	464,690
Wyoming	181	63	31,611	16,157	-	-	605,825	554,259
PAD District V Total	111,190	177,906	444,970	559,515	-	-	7,644,051	7,992,626
Alaska	8,111	9,524	36,308	21,080	-	-	578,491	506,229
Arizona	-	-	66,936	64,247	-	-	896,984	870,106
California	12,641	11,397	187,424	340,380	-	-	3,665,459	4,080,175
Hawaii	31,180	16,871	5,594	5,539	-	-	234,007	217,208
Nevada	989	1,183	12,146	25,386	-	-	417,762	427,746
Oregon	3,091	1,490	38,704	43,494	-	-	774,458	815,891
Washington	55,178	137,442	97,859	59,389	-	-	1,076,890	1,075,271

^E Estimated data.

Dashes (-) = No data reported.

Note: 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 1999 and 2000.

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

Table 5. Sales of Residual Fuel Oil by End Use, 1999 and 2000

(Thousand Gallons)

Destination	Commercial		Industrial		Oil Company		Electric Utility	
	1999	2000	1999	2000	1999	2000	1999	2000
U.S. Total	645,927	664,360	1,700,054	1,585,140	123,984	153,522	4,990,083	4,362,680
PAD District I Total	614,904	637,196	1,288,308	1,187,600	81,098	73,228	4,162,866	3,603,559
Subdistrict IA Total	114,759	114,156	420,524	355,553	—	—	734,224	458,707
Connecticut	11,636	9,943	22,351	17,053	—	—	485,561	140,360
Maine	6,019	11,535	292,577	242,403	—	—	56,607	34,323
Massachusetts	65,609	63,281	49,825	50,014	—	—	48,092	240,710
New Hampshire	6,968	5,680	32,816	24,909	—	—	126,544	19,684
Rhode Island	20,578	19,094	14,750	11,713	—	—	17,421	23,631
Vermont	3,949	4,623	8,204	9,461	—	—	—	—
Subdistrict IB Total	483,271	495,051	247,203	226,604	80,845	73,228	1,356,915	880,352
Delaware	5,511	10,306	43,336	29,936	21,452	35,602	68,127	27,759
District of Columbia	99	25	—	4	—	—	—	—
Maryland	2,889	3,963	32,053	24,311	768	644	284,549	87,119
New Jersey	32,722	21,824	28,483	25,041	6,595	1,884	158,420	135,776
New York	412,137	430,023	89,040	90,733	876	722	695,779	532,620
Pennsylvania	29,913	28,910	54,289	56,580	51,154	34,374	150,040	97,078
Subdistrict IC Total	16,873	27,989	620,582	605,442	253	—	2,071,726	2,264,500
Florida	721	695	172,282	153,381	—	—	1,928,056	2,135,432
Georgia	11	219	58,345	59,270	—	—	6,522	23,639
North Carolina	5,553	5,135	228,616	215,221	—	—	50	—
South Carolina	532	2,299	61,951	79,096	109	—	5,650	4,865
Virginia	10,057	19,641	94,248	85,128	145	—	131,448	100,564
West Virginia	—	—	5,139	13,347	—	—	—	—
PAD District II Total	25,393	21,549	206,036	229,484	20,544	23,443	106,987	74,402
Illinois	4,335	636	8,684	10,451	—	637	18,136	9,471
Indiana	132	71	17,374	21,150	2	—	—	—
Iowa	—	115	5,554	6,389	—	—	—	247
Kansas	—	144	12,369	18,297	—	—	8,692	9,446
Kentucky	40	371	4,247	3,712	—	—	—	30
Michigan	146	218	12,788	23,510	5,573	4,812	77,537	52,237
Minnesota	8,587	6,252	15,167	19,563	6,680	6,424	2,327	2,492
Missouri	1,464	1,430	6,044	3,280	—	—	—	128
Nebraska	162	376	3,850	5,257	—	—	—	—
North Dakota	827	562	2,554	2,992	—	—	296	351
Ohio	—	—	62,293	64,116	3,775	3,627	—	—
Oklahoma	—	—	6,154	7,899	—	2,902	—	—
South Dakota	429	3,161	4,444	2,890	—	—	—	—
Tennessee	—	—	2,755	2,997	—	—	—	—
Wisconsin	9,272	8,214	41,760	36,981	4,514	5,042	—	—
PAD District III Total	—	9	143,532	146,605	—	1,948	250,328	239,989
Alabama	—	9	32,884	59,070	—	1,948	—	—
Arkansas	—	—	924	405	—	—	4,768	9,138
Louisiana	—	—	66,149	62,372	—	—	32,723	29,505
Mississippi	—	—	635	317	—	—	212,837	195,444
New Mexico	—	—	7,786	6,136	—	—	—	—
Texas	—	—	35,153	18,305	—	—	—	5,902
PAD District IV Total	720	783	4,064	3,616	511	—	—	—
Colorado	60	—	47	—	—	—	—	—
Idaho	—	—	333	90	—	—	—	—
Montana	122	30	512	—	489	—	—	—
Utah	539	743	2,756	2,485	22	—	—	—
Wyoming	—	11	417	1,041	—	—	—	—
PAD District V Total	4,910	4,823	58,114	17,836	21,831	54,903	469,902	444,730
Alaska	—	—	—	—	—	—	—	—
Arizona	—	—	1,516	1,052	—	—	—	—
California	—	23	27,582	4,914	3,979	—	—	1,172
Hawaii	319	380	602	1,392	17,818	18,567	469,902	443,558
Nevada	372	382	1,048	—	—	—	—	—
Oregon	2,652	2,803	7,926	6,275	34	39	—	—
Washington	1,567	1,234	19,441	4,205	1	36,298	—	—

See footnotes at end of table.

Table 5. Sales of Residual Fuel Oil by End Use, 1999 and 2000 (Continued)

(Thousand Gallons)

Destination	Vessel Bunkering		Military		All Other		Total	
	1999	2000	1999	2000	1999	2000	1999	2000
U.S. Total	5,838,128	6,409,863	25,702	28,427	4,181	6,942	13,328,058	13,210,935
PAD District I Total	1,683,393	2,004,495	20,468	14,069	4,028	6,848	7,855,065	7,526,995
Subdistrict IA Total	6,286	55,436	6,148	2,136	145	385	1,282,087	986,373
Connecticut	24	428	657	563	59	262	520,289	168,610
Maine	5,098	30,421	5,246	1,348	-	-	365,547	320,029
Massachusetts	973	24,338	216	225	43	122	164,757	378,690
New Hampshire	8	-	29	-	-	-	166,365	50,273
Rhode Island	183	250	-	-	-	-	52,932	54,688
Vermont	-	-	-	-	43	-	12,196	14,083
Subdistrict IB Total	1,122,892	1,243,375	9,408	9,543	-	-	3,300,534	2,928,153
Delaware	96,415	74,076	155	495	-	-	234,996	178,174
District of Columbia	-	-	-	-	-	-	99	29
Maryland	49,515	30,814	4,616	5,061	-	-	374,390	151,913
New Jersey	358,109	556,968	777	616	-	-	585,108	742,110
New York	344,084	367,467	1,463	3,117	-	-	1,543,380	1,424,681
Pennsylvania	274,769	214,050	2,396	253	-	-	562,561	431,246
Subdistrict IC Total	554,214	705,684	4,911	2,390	3,883	6,463	3,272,444	3,612,469
Florida	421,520	455,019	-	-	3,583	6,019	2,526,162	2,750,546
Georgia	41,833	37,517	-	-	-	-	106,711	120,644
North Carolina	7,288	5,830	-	-	300	444	241,807	226,630
South Carolina	20,913	17,013	-	-	-	-	89,155	103,273
Virginia	62,661	190,305	4,911	2,390	-	-	303,470	398,028
West Virginia	-	-	-	-	-	-	5,139	13,347
PAD District II Total	18,069	28,070	718	3,341	76	45	377,823	380,334
Illinois	1,372	868	302	3,341	39	-	32,867	25,404
Indiana	13,606	13,767	-	-	-	-	31,114	34,988
Iowa	-	-	-	-	-	-	5,554	6,751
Kansas	-	-	416	-	-	-	21,477	27,887
Kentucky	-	-	-	-	-	-	4,287	4,112
Michigan	1,993	2,185	-	-	37	45	98,073	83,007
Minnesota	70	10,119	-	-	-	-	32,830	44,850
Missouri	267	266	-	-	-	-	7,775	5,104
Nebraska	-	-	-	-	-	-	4,011	5,632
North Dakota	-	-	-	-	-	-	3,678	3,905
Ohio	400	559	-	-	-	-	66,468	68,302
Oklahoma	-	-	-	-	-	-	6,154	10,801
South Dakota	-	-	-	-	-	-	4,873	6,051
Tennessee	-	-	-	-	-	-	2,755	2,997
Wisconsin	361	306	-	-	-	-	55,907	50,542
PAD District III Total	2,193,325	2,380,294	-	11,017	33	49	2,587,218	2,779,911
Alabama	48,065	131,858	-	-	-	-	80,948	192,886
Arkansas	-	-	-	-	-	-	5,692	9,543
Louisiana	1,126,640	1,239,105	-	-	-	-	1,225,512	1,330,982
Mississippi	50,725	62,304	-	-	-	-	264,197	258,065
New Mexico	-	-	-	-	33	49	7,819	6,185
Texas	967,896	947,027	-	11,017	-	-	1,003,049	982,252
PAD District IV Total	-	-	-	-	43	-	5,338	4,399
Colorado	-	-	-	-	-	-	107	-
Idaho	-	-	-	-	1	-	333	90
Montana	-	-	-	-	-	-	1,122	30
Utah	-	-	-	-	17	-	3,334	3,228
Wyoming	-	-	-	-	25	-	442	1,052
PAD District V Total	1,943,342	1,997,004	4,516	-	-	-	2,502,615	2,519,296
Alaska	12,738	5,380	-	-	-	-	12,738	5,380
Arizona	-	-	-	-	-	-	1,516	1,052
California	1,285,508	1,529,648	1,021	-	-	-	1,318,091	1,535,757
Hawaii	91,138	101,524	3,495	-	-	-	583,273	565,420
Nevada	-	-	-	-	-	-	1,420	382
Oregon	132,370	57,831	-	-	-	-	142,981	66,948
Washington	421,588	302,621	-	-	-	-	442,596	344,357

Dashes (-) = No data reported.

Note: 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 1999 and 2000.

Table 6. Sales of Kerosene by End Use, 1999 and 2000

(Thousand Gallons)

Destination	Residential		Commercial		Industrial	
	1999	2000	1999	2000	1999	2000
U.S. Total	823,436	700,532	199,577	219,633	58,279	86,844
PAD District I Total	562,304	575,312	170,373	186,620	33,031	56,347
Subdistrict IA Total	108,444	119,859	23,426	18,957	8,242	12,666
Connecticut	7,413	8,358	3,424	4,978	4,045	8,013
Maine	64,632	70,596	5,651	5,719	604	485
Massachusetts	7,502	8,011	9,447	4,487	863	345
New Hampshire	15,828	16,492	1,755	1,995	303	282
Rhode Island	2,069	2,712	1,671	803	777	8
Vermont	11,000	13,691	1,478	975	1,650	3,533
Subdistrict IB Total	242,254	255,053	117,764	138,001	16,853	31,149
Delaware	5,235	5,510	2,184	5,713	86	262
District of Columbia	220	126	9,539	10,215	-	-
Maryland	21,983	21,221	10,682	15,226	1,216	979
New Jersey	11,324	12,542	52,261	49,946	8,817	18,012
New York	97,741	98,456	28,634	39,810	1,797	4,905
Pennsylvania	105,751	117,199	14,464	17,091	4,937	6,991
Subdistrict IC Total	211,605	200,400	29,183	29,662	7,936	12,532
Florida	6,762	4,163	2,574	1,186	1,667	3,369
Georgia	10,110	8,310	1,558	1,722	799	1,201
North Carolina	83,371	83,110	7,753	9,820	1,200	1,778
South Carolina	23,207	21,573	1,277	2,280	3,021	4,008
Virginia	65,027	68,945	13,327	11,604	796	1,316
West Virginia	23,128	14,299	2,694	3,050	453	860
PAD District II Total	234,778	93,044	20,027	24,695	13,998	15,403
Illinois	21,850	5,102	3,534	2,859	1,241	1,987
Indiana	55,789	15,098	1,721	2,007	1,021	755
Iowa	990	1,096	185	253	61	132
Kansas	14,537	830	157	216	200	195
Kentucky	36,286	13,270	2,799	2,926	4,509	3,093
Michigan	25,452	14,959	1,567	1,380	1,312	1,507
Minnesota	1,344	1,375	837	2,260	64	58
Missouri	2,298	2,889	733	933	341	446
Nebraska	268	335	57	44	9	2
North Dakota	710	118	31	62	10	34
Ohio	54,378	17,604	5,411	5,553	2,560	2,575
Oklahoma	376	2,474	487	1,349	237	569
South Dakota	179	149	30	33	12	18
Tennessee	17,768	15,887	2,192	4,419	2,018	3,676
Wisconsin	2,555	1,857	285	399	404	356
PAD District III Total	9,115	7,057	5,231	3,634	8,021	13,159
Alabama	1,846	1,944	234	388	672	460
Arkansas	1,504	1,048	160	189	73	105
Louisiana	2,624	1,090	382	343	332	2,033
Mississippi	874	1,476	1,828	344	1,550	973
New Mexico	951	238	254	345	211	243
Texas	1,316	1,262	2,374	2,025	5,184	9,345
PAD District IV Total	1,234	1,858	624	589	688	330
Colorado	686	1,220	393	319	87	66
Idaho	256	417	62	73	220	77
Montana	58	7	2	-	4	3
Utah	182	156	149	181	201	177
Wyoming	53	57	18	16	176	9
PAD District V Total	16,006	23,261	3,322	4,094	2,541	1,605
Alaska	707	564	26	15	1	2
Arizona	81	61	200	113	84	52
California	7,846	11,788	1,204	2,194	1,383	791
Hawaii	-	-	2	6	4	4
Nevada	319	337	107	83	80	12
Oregon	3,422	7,799	1,283	1,189	511	591
Washington	3,631	2,711	499	493	478	154

See footnotes at end of table.

Table 6. Sales of Kerosene by End Use, 1999 and 2000 (Continued)

(Thousand Gallons)

Destination	Farm		All Other		Total	
	1999	2000	1999	2000	1999	2000
U.S. Total	26,312	23,084	10,521	5,921	1,118,124	1,036,014
PAD District I Total	8,471	7,515	5,491	1,957	779,669	827,752
Subdistrict IA Total	1,277	1,120	564	270	141,954	152,872
Connecticut	22	36	24	1	14,927	21,385
Maine	342	419	86	30	71,315	77,249
Massachusetts	1	27	76	74	17,889	12,943
New Hampshire	341	259	134	52	18,360	19,079
Rhode Island	-	-	20	35	4,537	3,558
Vermont	572	380	225	78	14,925	18,657
Subdistrict IB Total	3,652	3,053	1,698	784	382,222	428,040
Delaware	29	27	-	-	7,534	11,511
District of Columbia	-	-	-	-	9,759	10,341
Maryland	287	244	17	31	34,186	37,701
New Jersey	8	18	51	29	72,461	80,547
New York	894	936	544	482	129,610	144,589
Pennsylvania	2,434	1,829	1,086	241	128,671	143,351
Subdistrict IC Total	3,542	3,343	3,228	904	255,494	246,840
Florida	641	653	2,290	27	13,934	9,398
Georgia	720	515	18	1	13,204	11,748
North Carolina	415	555	329	584	93,068	95,847
South Carolina	443	686	62	79	28,010	28,626
Virginia	1,039	860	516	197	80,705	82,922
West Virginia	285	74	13	15	26,572	18,299
PAD District II Total	11,957	12,069	3,238	1,991	283,998	147,201
Illinois	935	802	203	195	27,762	10,945
Indiana	1,604	892	767	443	60,903	19,195
Iowa	1,688	1,595	98	71	3,021	3,146
Kansas	218	219	12	57	15,124	1,517
Kentucky	728	1,382	262	128	44,584	20,799
Michigan	474	269	340	81	29,145	18,196
Minnesota	2,863	2,651	162	106	5,270	6,451
Missouri	143	127	33	28	3,548	4,422
Nebraska	126	208	18	53	477	642
North Dakota	25	230	13	21	789	465
Ohio	1,433	1,346	325	81	64,108	27,160
Oklahoma	94	147	714	555	1,908	5,094
South Dakota	50	35	5	11	275	246
Tennessee	154	263	53	35	22,185	24,280
Wisconsin	1,423	1,904	233	125	4,900	4,642
PAD District III Total	1,320	1,346	1,360	1,273	25,046	26,469
Alabama	23	10	730	466	3,505	3,268
Arkansas	435	57	55	8	2,226	1,406
Louisiana	64	447	238	266	3,640	4,178
Mississippi	5	26	122	3	4,378	2,822
New Mexico	518	344	34	48	1,968	1,218
Texas	274	463	182	482	9,329	13,576
PAD District IV Total	104	136	147	249	2,797	3,163
Colorado	55	58	121	74	1,341	1,737
Idaho	27	30	1	1	566	597
Montana	9	19	2	2	75	32
Utah	12	28	3	3	546	545
Wyoming	1	1	21	169	269	252
PAD District V Total	4,461	2,018	285	451	26,614	31,429
Alaska	-	-	-	-	733	581
Arizona	4	4	1	-	370	230
California	1,479	643	189	170	12,102	15,587
Hawaii	-	-	-	-	7	10
Nevada	568	20	-	5	1,075	457
Oregon	1,884	671	24	43	7,125	10,294
Washington	525	680	69	232	5,203	4,271

Dashes (-) = No data reported.

Note: 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 1999 and 2000.

Table 7. Sales for Residential Use: Distillate Fuel Oil and Kerosene, 2000
(Thousand Gallons)

Destination	Distillate Fuel Oil			Kerosene
	No. 1	No. 2	Total	
U.S. Total	138,393	6,692,062	6,830,455	700,532
PAD District I Total	8,860	5,906,396	5,915,256	575,312
Subdistrict IA Total	4,293	2,274,137	2,278,430	119,859
Connecticut	129	620,894	621,023	8,358
Maine	2,578	303,350	305,928	70,596
Massachusetts	-	899,021	899,021	8,011
New Hampshire	1,585	199,674	201,259	16,492
Rhode Island	-	143,441	143,441	2,712
Vermont	-	107,758	107,758	13,691
Subdistrict IB Total	2,080	3,189,973	3,192,053	255,053
Delaware	834	49,228	50,062	5,510
District of Columbia	-	9,582	9,582	126
Maryland	129	213,825	213,954	21,221
New Jersey	246	449,531	449,777	12,542
New York	22	1,549,147	1,549,169	98,456
Pennsylvania	850	918,660	919,510	117,199
Subdistrict IC Total	2,488	442,287	444,775	200,400
Florida	-	5,237	5,237	4,163
Georgia	-	3,148	3,148	8,310
North Carolina	378	142,003	142,381	83,110
South Carolina	212	21,000	21,212	21,573
Virginia	957	248,778	249,735	68,945
West Virginia	940	22,120	23,060	14,299
PAD District II Total	75,971	590,068	666,039	93,044
Illinois	2,065	16,050	18,115	5,102
Indiana	8,484	34,425	42,909	15,098
Iowa	4,924	16,246	21,170	1,096
Kansas	148	602	750	830
Kentucky	422	22,766	23,188	13,270
Michigan	9,058	118,574	127,632	14,959
Minnesota	19,755	81,127	100,882	1,375
Missouri	2,245	11,309	13,554	2,889
Nebraska	1,050	3,802	4,852	335
North Dakota	3,799	21,001	24,800	118
Ohio	6,215	125,682	131,897	17,604
Oklahoma	44	61	105	2,474
South Dakota	4,208	11,206	15,414	149
Tennessee	1,500	6,165	7,665	15,887
Wisconsin	12,054	121,051	133,105	1,857
PAD District III Total	99	984	1,083	7,057
Alabama	12	525	537	1,944
Arkansas	1	29	30	1,048
Louisiana	-	62	62	1,090
Mississippi	-	61	61	1,476
New Mexico	32	241	273	238
Texas	54	66	120	1,262
PAD District IV Total	7,680	24,564	32,244	1,858
Colorado	270	2,454	2,724	1,220
Idaho	4,260	13,157	17,417	417
Montana	2,578	4,891	7,469	7
Utah	422	3,061	3,483	156
Wyoming	149	1,001	1,150	57
PAD District V Total	45,782	170,049	215,831	23,261
Alaska	36,307	39,832	76,139	564
Arizona	14	159	173	61
California	333	10,271	10,604	11,788
Hawaii	-	14	14	-
Nevada	255	9,059	9,314	337
Oregon	4,802	38,413	43,215	7,799
Washington	4,071	72,301	76,372	2,711

Dashes (-) = No data reported.

Note: 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.

• Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 2000, (DOE/EIA-0340(00)/1).

Table 8. Sales for Commercial Use: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 2000
(Thousand Gallons)

Destination	Distillate Fuel Oil						Residual Fuel Oil	Kerosene	
	No. 1 Distillate	No. 2 Distillate			No. 4 Fuel	Total Distillate			
		No. 2 Fuel Oil	Low Sulfur Diesel	High Sulfur Diesel					No. 2 Total
U.S. Total	71,657	1,713,618	1,188,155	515,834	3,417,607	217,081	3,706,345	664,360	219,633
PAD District I Total	2,863	1,429,053	458,184	240,171	2,127,408	216,228	2,346,499	637,196	186,620
Subdistrict IA Total	435	492,371	110,947	19,882	623,200	35,280	658,915	114,156	18,957
Connecticut	134	99,458	24,604	2,045	126,108	4,938	131,180	9,943	4,978
Maine	86	102,676	34,956	1,883	139,515	2,148	141,749	11,535	5,719
Massachusetts	31	173,621	25,146	10,121	208,888	19,982	228,901	63,281	4,487
New Hampshire	-	58,258	20,162	1,114	79,534	4,168	83,702	5,680	1,995
Rhode Island	183	22,366	2,629	381	25,375	2,084	27,642	19,094	803
Vermont	2	35,991	3,449	4,339	43,780	1,960	45,742	4,623	975
Subdistrict IB Total	1,995	811,124	141,754	72,984	1,025,861	176,137	1,203,992	495,051	138,001
Delaware	-	8,393	2,244	796	11,433	596	12,029	10,306	5,713
District of Columbia	6	17,721	3,436	1,224	22,381	2,296	24,683	25	10,215
Maryland	760	72,022	25,866	13,337	111,225	1,539	113,525	3,963	15,226
New Jersey	155	106,780	19,909	12,281	138,969	7,753	146,877	21,824	49,946
New York	591	444,360	43,829	17,775	505,963	158,669	665,223	430,023	39,810
Pennsylvania	482	161,848	46,470	27,571	235,889	5,285	241,656	28,910	17,091
Subdistrict IC Total	433	125,559	205,484	147,305	478,347	4,811	483,592	27,989	29,662
Florida	-	3,797	69,449	42,162	115,408	709	116,117	695	1,186
Georgia	3	5,373	23,749	25,002	54,125	294	54,421	219	1,722
North Carolina	6	30,422	49,721	34,972	115,115	2,674	117,796	5,135	9,820
South Carolina	-	8,527	17,287	7,542	33,356	-	33,356	2,299	2,280
Virginia	41	73,268	40,420	31,387	145,076	949	146,066	19,641	11,604
West Virginia	383	4,171	4,858	6,239	15,268	184	15,835	-	3,050
PAD District II Total	38,132	108,479	292,507	162,191	563,177	793	602,102	21,549	24,695
Illinois	6,747	6,690	35,891	21,132	63,713	-	70,461	636	2,859
Indiana	3,294	14,496	29,998	11,296	55,790	-	59,084	71	2,007
Iowa	4,642	5,348	9,987	1,158	16,493	-	21,135	115	253
Kansas	2,398	799	17,063	4,854	22,716	-	25,115	144	216
Kentucky	500	5,956	23,518	17,095	46,568	517	47,585	371	2,926
Michigan	1,332	9,450	41,947	16,608	68,005	7	69,344	218	1,380
Minnesota	4,011	14,218	13,399	7,449	35,067	-	39,077	6,252	2,260
Missouri	1,729	5,725	10,089	31,493	47,308	108	49,145	1,430	933
Nebraska	3,234	569	3,314	1,493	5,376	90	8,700	376	44
North Dakota	1,237	2,399	5,125	1,426	8,950	-	10,187	562	62
Ohio	2,588	13,050	40,200	20,689	73,939	-	76,527	-	5,553
Oklahoma	19	149	8,623	1,871	10,643	-	10,662	-	1,349
South Dakota	1,149	4,192	2,383	844	7,419	-	8,568	3,161	33
Tennessee	98	4,367	25,334	17,529	47,229	71	47,397	-	4,419
Wisconsin	5,156	21,071	25,638	7,252	53,960	-	59,116	8,214	399
PAD District III Total	906	137,183	141,591	56,427	335,201	-	336,107	9	3,634
Alabama	-	1,201	21,738	9,943	32,882	-	32,882	9	388
Arkansas	-	16	8,864	7,637	16,517	-	16,517	-	189
Louisiana	86	8	7,117	7,594	14,719	-	14,805	-	343
Mississippi	-	-	5,678	5,779	11,457	-	11,457	-	344
New Mexico	88	322	9,587	1,679	11,588	-	11,676	-	345
Texas	732	135,636	88,607	23,796	248,038	-	248,770	-	2,025
PAD District IV Total	9,029	6,141	57,520	12,913	76,574	-	85,603	783	589
Colorado	3,586	1,373	21,224	424	23,021	-	26,607	-	319
Idaho	1,214	1,018	11,124	5,644	17,786	-	18,999	-	73
Montana	671	2,851	2,681	69	5,601	-	6,271	30	-
Utah	842	593	8,133	6,539	15,265	-	16,107	743	181
Wyoming	2,718	307	14,356	238	14,901	-	17,619	11	16
PAD District V Total	20,726	32,762	238,354	44,132	315,247	60	336,034	4,823	4,094
Alaska	16,120	19,526	6,167	8,953	34,645	31	50,796	-	15
Arizona	90	4	35,117	2,909	38,030	24	38,144	-	113
California	576	4,670	123,869	7,389	135,927	-	136,504	23	2,194
Hawaii	-	74	4,727	4,802	9,603	-	9,604	380	6
Nevada	315	2,352	14,614	352	17,318	-	17,634	382	83
Oregon	1,453	4,474	28,428	9,344	42,246	6	43,705	2,803	1,189
Washington	2,172	1,661	25,432	10,383	37,477	-	39,648	1,234	493

Dashes (-) = No data reported.

Note: 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.

• Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 2000, (DOE/EIA-0340(00)/1).

Table 9. Sales for Industrial Use: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 2000
(Thousand Gallons)

Destination	Distillate Fuel Oil							Residual Fuel Oil	Kerosene
	No. 1 Distillate	No. 2 Distillate				No. 4 Fuel	Total Distillate		
		No. 2 Fuel Oil	Low Sulfur Diesel	High Sulfur Diesel	No. 2 Total				
U.S. Total	60,349	391,579	862,564	973,404	2,227,548	42,974	2,330,870	1,585,140	86,844
PAD District I Total	1,400	239,808	126,811	307,535	674,155	36,273	711,827	1,187,600	56,347
Subdistrict IA Total	420	40,867	19,419	4,805	65,092	12,158	77,670	355,553	12,666
Connecticut	-	9,612	1,466	51	11,128	5,880	17,008	17,053	8,013
Maine	35	14,999	7,445	1,267	23,711	1,790	25,536	242,403	485
Massachusetts	-	5,017	7,756	2,857	15,631	1,105	16,736	50,014	345
New Hampshire	385	5,002	2,175	8	7,185	646	8,216	24,909	282
Rhode Island	-	2,969	209	17	3,196	1,278	4,473	11,713	8
Vermont	-	3,269	368	604	4,241	1,460	5,701	9,461	3,533
Subdistrict IB Total	653	120,477	30,463	63,144	214,084	17,884	232,621	226,604	31,149
Delaware	-	648	1,619	378	2,645	55	2,700	29,936	262
District of Columbia	-	17	-	-	17	-	17	4	-
Maryland	639	12,949	4,476	6,252	23,678	1,681	25,997	24,311	979
New Jersey	4	17,982	1,393	3,045	22,420	5,968	28,392	25,041	18,012
New York	-	36,393	4,502	1,977	42,872	6,836	49,707	90,733	4,905
Pennsylvania	10	52,488	18,473	51,492	122,453	3,344	125,807	56,580	6,991
Subdistrict IC Total	327	78,464	76,929	239,586	394,979	6,231	401,537	605,442	12,532
Florida	-	8,340	15,585	23,238	47,163	1,158	48,320	153,381	3,369
Georgia	-	6,778	20,651	36,970	64,399	1,810	66,210	59,270	1,201
North Carolina	-	21,137	21,569	30,167	72,873	417	73,290	215,221	1,778
South Carolina	-	9,003	8,384	8,379	25,765	282	26,047	79,096	4,008
Virginia	1	19,165	7,129	57,027	83,320	2,564	85,885	85,128	1,316
West Virginia	326	14,041	3,611	83,806	101,459	-	101,784	13,347	860
PAD District II Total	27,711	117,417	186,052	302,207	605,675	3,385	636,772	229,484	15,403
Illinois	3,538	5,721	31,817	30,434	67,972	-	71,510	10,451	1,987
Indiana	6,053	32,752	21,038	50,109	103,898	505	110,456	21,150	755
Iowa	905	1,347	8,878	2,666	12,891	-	13,796	6,389	132
Kansas	811	127	8,611	3,811	12,548	6	13,365	18,297	195
Kentucky	-	8,705	10,482	98,816	118,002	64	118,066	3,712	3,093
Michigan	791	6,646	12,938	17,999	37,583	1,908	40,282	23,510	1,507
Minnesota	5,630	24,135	16,868	1,649	42,652	117	48,399	19,563	58
Missouri	2,330	2,028	12,587	18,542	33,157	-	35,488	3,280	446
Nebraska	1,120	118	1,456	2,577	4,150	-	5,270	5,257	2
North Dakota	830	133	1,717	623	2,473	-	3,303	2,992	34
Ohio	498	9,698	22,765	39,805	72,269	109	72,876	64,116	2,575
Oklahoma	-	328	1,302	3,718	5,348	-	5,348	7,899	569
South Dakota	752	4,484	1,406	194	6,084	87	6,924	2,890	18
Tennessee	-	266	14,710	12,389	27,365	271	27,636	2,997	3,676
Wisconsin	4,453	20,928	19,478	18,877	59,283	318	64,054	36,981	356
PAD District III Total	2,645	4,152	187,207	211,775	403,135	1,919	407,699	146,605	13,159
Alabama	107	535	21,668	31,948	54,150	1,365	55,623	59,070	460
Arkansas	-	118	5,354	8,975	14,447	-	14,447	405	105
Louisiana	-	113	6,465	54,733	61,311	-	61,311	62,372	2,033
Mississippi	-	-	7,880	28,212	36,093	11	36,103	317	973
New Mexico	2,538	1,410	29,190	1,776	32,376	-	34,914	6,136	243
Texas	-	1,977	116,650	86,132	204,758	543	205,301	18,305	9,345
PAD District IV Total	10,620	6,275	168,376	15,271	189,922	60	200,602	3,616	330
Colorado	1,031	163	17,967	799	18,930	-	19,961	-	66
Idaho	2,864	3,584	14,115	8,773	26,471	-	29,335	90	77
Montana	969	52	14,119	151	14,322	8	15,299	-	3
Utah	1,713	202	28,870	5,400	34,473	-	36,186	2,485	177
Wyoming	4,044	2,274	93,305	148	95,727	52	99,822	1,041	9
PAD District V Total	17,972	23,927	194,119	136,615	354,661	1,337	373,970	17,836	1,605
Alaska	16,120	6,250	30	15,301	21,581	-	37,701	-	2
Arizona	1,472	1	41,863	51,725	93,589	-	95,061	1,052	52
California	-	530	67,084	3,351	70,965	-	70,965	4,914	791
Hawaii	-	71	2,178	920	3,169	-	3,169	1,392	4
Nevada	180	16,538	48,336	25,204	90,078	1,284	91,542	-	12
Oregon	50	366	22,817	23,616	46,799	52	46,901	6,275	591
Washington	150	172	11,811	16,498	28,480	-	28,630	4,205	154

Dashes (-) = No data reported.

Note: 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.

• Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 2000, (DOE/EIA-0340(00)/1).

Table 10. Sales for Farm Use: Distillate Fuel Oil and Kerosene; Sales for Electric Utility and Oil Company Uses: Distillate Fuel Oil and Residual Fuel Oil, 2000
(Thousand Gallons)

Destination	Farm				Electric		Oil Company Use	
	Diesel	Other Distillate	Total Distillate	Kerosene	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil
U.S. Total	3,359,813	95,048	3,454,861	23,084	1,015,100	4,362,680	686,454	153,522
PAD District I Total	425,670	48,208	473,878	7,515	389,981	3,603,559	20,926	73,228
Subdistrict IA Total	13,601	12,763	26,364	1,120	14,456	458,707	294	-
Connecticut	1,959	3,408	5,367	36	2,320	140,360	294	-
Maine	2,968	3,398	6,366	419	319	34,323	-	-
Massachusetts	2,537	549	3,086	27	7,080	240,710	-	-
New Hampshire	1,025	3,063	4,088	259	1,309	19,684	-	-
Rhode Island	108	-	108	-	1,532	23,631	-	-
Vermont	5,003	2,346	7,349	380	1,895	-	-	-
Subdistrict IB Total	88,468	30,530	118,998	3,053	112,622	880,352	13,830	73,228
Delaware	7,915	68	7,983	27	5,725	27,759	4,642	35,602
District of Columbia	-	-	-	-	16,552	-	-	-
Maryland	24,548	477	25,025	244	21,122	87,119	4	644
New Jersey	8,529	620	9,149	18	9,179	135,776	3,115	1,884
New York	24,203	22,281	46,484	936	3,852	532,620	7	722
Pennsylvania	23,272	7,086	30,358	1,829	56,192	97,078	6,063	34,374
Subdistrict IC Total	323,602	4,914	328,516	3,343	262,903	2,264,500	6,803	-
Florida	107,520	360	107,880	653	131,454	2,135,432	339	-
Georgia	116,746	166	116,912	515	34,454	23,639	331	-
North Carolina	40,897	3,577	44,474	555	43,122	-	170	-
South Carolina	16,237	306	16,543	686	20,785	4,865	110	-
Virginia	39,364	460	39,824	860	18,421	100,564	653	-
West Virginia	2,837	45	2,883	74	14,667	-	5,200	-
PAD District II Total	1,666,090	42,378	1,708,468	12,069	171,458	74,402	44,225	23,443
Illinois	173,010	4,242	177,252	802	11,695	9,471	1,493	637
Indiana	72,867	3,699	76,566	892	22,150	-	2,780	-
Iowa	209,518	11,037	220,555	1,595	5,341	247	-	-
Kansas	150,074	958	151,032	219	10,765	9,446	7,317	-
Kentucky	28,431	2,991	31,422	1,382	8,935	30	789	-
Michigan	69,919	2,998	72,917	269	21,637	52,237	-	4,812
Minnesota	113,758	3,795	117,553	2,651	6,020	2,492	4	6,424
Missouri	68,083	697	68,779	127	11,715	128	10	-
Nebraska	173,568	1,365	174,933	208	3,298	-	-	-
North Dakota	100,988	297	101,285	230	2,472	351	5,944	-
Ohio	71,186	1,852	73,038	1,346	36,105	-	2,383	3,627
Oklahoma	78,051	26	78,077	147	2,699	-	23,469	2,902
South Dakota	66,237	867	67,105	35	3,173	-	27	-
Tennessee	41,145	258	41,403	263	20,455	-	8	-
Wisconsin	249,255	7,296	256,551	1,904	4,997	-	-	5,042
PAD District III Total	532,302	3,122	535,423	1,346	249,290	239,989	543,958	1,948
Alabama	21,131	-	21,131	10	10,012	-	131	1,948
Arkansas	98,797	-	98,797	57	5,153	9,138	1,493	-
Louisiana	76,348	1,855	78,203	447	16,776	29,505	285,438	-
Mississippi	67,837	1,252	69,089	26	2,695	195,444	3,567	-
New Mexico	14,699	15	14,714	344	2,903	-	27,428	-
Texas	253,491	-	253,491	463	211,751	5,902	225,901	-
PAD District IV Total	182,160	1,215	183,375	136	10,868	-	24,328	-
Colorado	49,885	369	50,254	58	5,989	-	5,738	-
Idaho	51,085	466	51,551	30	17	-	-	-
Montana	48,682	315	48,997	19	17	-	1,901	-
Utah	14,328	20	14,349	28	1,744	-	2,697	-
Wyoming	18,179	45	18,224	1	3,100	-	13,992	-
PAD District V Total	553,591	126	553,717	2,018	193,503	444,730	53,017	54,903
Alaska	49	1	50	-	46,232	-	40,834	-
Arizona	26,226	-	26,226	4	9,674	-	112	-
California	400,500	-	400,500	643	10,124	1,172	9,840	-
Hawaii	12,009	-	12,009	-	115,238	443,558	71	18,567
Nevada	7,160	21	7,182	20	1,097	-	52	-
Oregon	67,256	79	67,335	671	6,157	-	678	39
Washington	40,392	24	40,416	680	4,983	-	1,430	36,298

Dashes (-) = No data reported.

Note: 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.

• Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 2000, (DOE/EIA-0340(00)/1).

Table 11. Sales for Transportation Use: Distillate Fuel Oil and Residual Fuel Oil, 2000
(Thousand Gallons)

Destination	Railroad Use	Vessel Bunkering		On-Highway Diesel	Total Transportation Use	
	Distillate Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil
U.S. Total	3,290,507	2,261,422	6,409,863	33,129,664	38,681,593	6,409,863
PAD District I Total	547,557	536,999	2,004,495	10,228,244	11,312,800	2,004,495
Subdistrict IA Total	35,462	41,186	55,436	994,438	1,071,086	55,436
Connecticut	11,415	3,029	428	223,858	238,303	428
Maine	3,220	7,855	30,421	165,548	176,623	30,421
Massachusetts	19,783	23,061	24,338	398,877	441,721	24,338
New Hampshire	3	785	-	99,104	99,892	-
Rhode Island	-	5,837	250	54,105	59,942	250
Vermont	1,041	619	-	52,946	54,605	-
Subdistrict IB Total	185,720	204,600	1,243,375	3,659,966	4,050,287	1,243,375
Delaware	194	35,892	74,076	58,093	94,179	74,076
District of Columbia	3,997	3	-	23,124	27,124	-
Maryland	5,788	29,070	30,814	499,287	534,145	30,814
New Jersey	16,869	100,743	556,968	784,719	902,331	556,968
New York	46,503	15,873	367,467	946,272	1,008,649	367,467
Pennsylvania	112,369	23,020	214,050	1,348,471	1,483,860	214,050
Subdistrict IC Total	326,375	291,213	705,684	5,573,840	6,191,428	705,684
Florida	118,877	137,188	455,019	1,274,869	1,530,934	455,019
Georgia	75,925	25,642	37,517	1,381,691	1,483,258	37,517
North Carolina	65,877	9,560	5,830	1,017,088	1,092,525	5,830
South Carolina	16,858	13,893	17,013	617,908	648,658	17,013
Virginia	37,893	42,152	190,305	992,580	1,072,625	190,305
West Virginia	10,946	62,778	-	289,704	363,428	-
PAD District II Total	1,306,816	319,399	28,070	11,140,616	12,766,831	28,070
Illinois	114,022	50,480	868	1,275,542	1,440,044	868
Indiana	79,742	46,431	13,767	1,272,013	1,398,186	13,767
Iowa	27,296	5,571	-	496,774	529,642	-
Kansas	56,907	1,014	-	359,912	417,833	-
Kentucky	108,346	85,863	-	828,750	1,022,958	-
Michigan	46,642	5,244	2,185	911,342	963,227	2,185
Minnesota	66,504	4,541	10,119	656,568	727,613	10,119
Missouri	31,795	65,838	266	917,569	1,015,201	266
Nebraska	75,165	23	-	362,705	437,893	-
North Dakota	40,943	-	-	141,486	182,429	-
Ohio	158,541	3,809	559	1,504,632	1,666,982	559
Oklahoma	351,994	202	-	728,583	1,080,779	-
South Dakota	4,400	-	-	146,170	150,570	-
Tennessee	87,416	46,841	-	889,379	1,023,636	-
Wisconsin	57,103	3,543	306	649,191	709,837	306
PAD District III Total	665,606	1,002,114	2,380,294	5,643,703	7,311,422	2,380,294
Alabama	46,492	83,146	131,858	766,750	896,388	131,858
Arkansas	44,058	121	-	586,466	630,645	-
Louisiana	43,885	542,696	1,239,105	579,895	1,166,475	1,239,105
Mississippi	21,029	32,109	62,304	512,739	565,876	62,304
New Mexico	5,783	-	-	404,044	409,827	-
Texas	504,360	344,042	947,027	2,793,809	3,642,211	947,027
PAD District IV Total	286,651	144	-	1,474,611	1,761,406	-
Colorado	40,984	-	-	461,178	502,162	-
Idaho	38,929	124	-	215,438	254,491	-
Montana	65,801	-	-	189,707	255,508	-
Utah	27,837	20	-	337,256	365,113	-
Wyoming	113,100	-	-	271,032	384,132	-
PAD District V Total	483,878	402,765	1,997,004	4,642,490	5,529,133	1,997,004
Alaska	6,303	126,573	5,380	90,999	223,874	5,380
Arizona	6,141	35	-	630,293	636,469	-
California	298,536	158,566	1,529,648	2,632,760	3,089,862	1,529,648
Hawaii	-	21,188	101,524	33,506	54,694	101,524
Nevada	11,082	-	-	263,275	274,357	-
Oregon	118,846	15,056	57,831	429,014	562,916	57,831
Washington	42,970	81,348	302,621	562,643	686,961	302,621

^E Estimated data.

Dashes (-) = No data reported.

Note: 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.

• 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, 2000
(Thousand Gallons)

Destination	Military				Off-Highway Distillate Fuel Oil			All Other		
	Diesel	Other Distillate	Total Distillate	Residual Fuel Oil	Construction	Other	Total	Distillate Fuel Oil	Residual Fuel Oil	Kerosene
U.S. Total	247,815	58,355	306,170	28,427	2,114,421	474,962	2,589,383	-	6,942	5,921
PAD District I Total	45,401	32,167	77,568	14,069	559,706	174,249	733,955	-	6,848	1,957
Subdistrict IA Total	3,192	6,059	9,251	2,136	53,526	13,582	67,107	-	385	270
Connecticut	340	1,911	2,251	563	14,932	189	15,121	-	262	1
Maine	1,938	2,859	4,797	1,348	7,511	3,219	10,731	-	-	30
Massachusetts	200	8	208	225	19,565	2,108	21,673	-	122	74
New Hampshire	646	1,170	1,816	-	8,103	5,108	13,211	-	-	52
Rhode Island	34	-	34	-	1,686	994	2,680	-	-	35
Vermont	35	110	145	-	1,728	1,963	3,691	-	-	78
Subdistrict IB Total	7,320	18,594	25,914	9,543	197,215	21,503	218,718	-	-	784
Delaware	333	84	417	495	4,002	1,996	5,997	-	-	-
District of Columbia	1,261	3,611	4,871	-	1,460	-	1,460	-	-	-
Maryland	2,370	2,081	4,451	5,061	41,357	378	41,735	-	-	31
New Jersey	73	629	702	616	28,154	10,136	38,291	-	-	29
New York	1,913	2,787	4,699	3,117	45,616	2,647	48,263	-	-	482
Pennsylvania	1,370	9,402	10,772	253	76,626	6,346	82,971	-	-	241
Subdistrict IC Total	34,888	7,515	42,403	2,390	308,966	139,164	448,130	-	6,463	904
Florida	14,350	8	14,358	-	99,711	17,711	117,422	-	6,019	27
Georgia	3,232	-	3,232	-	55,657	45,618	101,275	-	-	1
North Carolina	2,431	798	3,229	-	50,608	16,443	67,051	-	444	584
South Carolina	1,349	400	1,749	-	19,272	36,610	55,883	-	-	79
Virginia	13,359	6,306	19,666	2,390	71,278	15,931	87,210	-	-	197
West Virginia	168	2	170	-	12,439	6,850	19,289	-	-	15
PAD District II Total	16,350	21,911	38,262	3,341	582,187	62,541	644,728	-	45	1,991
Illinois	939	18	957	3,341	90,308	2,349	92,657	-	-	195
Indiana	298	4	302	-	43,107	7,412	50,519	-	-	443
Iowa	193	-	193	-	28,965	1,700	30,665	-	-	71
Kansas	485	-	485	-	20,884	4,336	25,221	-	-	57
Kentucky	1,015	-	1,015	-	39,722	5,057	44,779	-	-	128
Michigan	449	-	449	-	62,783	2,350	65,133	-	45	81
Minnesota	566	-	566	-	41,040	6,596	47,636	-	-	106
Missouri	3,196	-	3,196	-	49,189	6,661	55,851	-	-	28
Nebraska	1,114	-	1,114	-	18,724	917	19,641	-	-	53
North Dakota	417	-	417	-	9,966	680	10,646	-	-	21
Ohio	1,197	21,031	22,227	-	58,058	7,712	65,771	-	-	81
Oklahoma	372	-	372	-	37,683	2,335	40,018	-	-	555
South Dakota	17	12	29	-	9,141	1,655	10,796	-	-	11
Tennessee	631	-	631	-	31,215	7,158	38,373	-	-	35
Wisconsin	5,462	847	6,309	-	41,403	5,620	47,023	-	-	125
PAD District III Total	8,960	11	8,971	11,017	382,453	118,917	501,370	-	49	1,273
Alabama	2,428	11	2,439	-	32,321	19,998	52,319	-	-	466
Arkansas	196	-	196	-	26,748	35,534	62,282	-	-	8
Louisiana	2,491	-	2,491	-	57,763	23,721	81,483	-	-	266
Mississippi	2,588	-	2,588	-	17,995	17,281	35,276	-	-	3
New Mexico	315	-	315	-	19,922	2,890	22,812	-	49	48
Texas	942	-	942	11,017	227,703	19,494	247,198	-	-	482
PAD District IV Total	1,855	1,608	3,463	-	124,830	24,985	149,815	-	-	249
Colorado	631	28	659	-	66,051	1,975	68,026	-	-	74
Idaho	371	140	511	-	15,473	9,802	25,275	-	-	1
Montana	49	-	49	-	8,331	9,196	17,526	-	-	2
Utah	741	1,440	2,181	-	20,692	2,139	22,831	-	-	3
Wyoming	63	-	63	-	14,284	1,873	16,157	-	-	169
PAD District V Total	175,248	2,658	177,906	-	465,245	94,270	559,515	-	-	451
Alaska	9,451	73	9,524	-	10,815	10,266	21,080	-	-	-
Arizona	-	-	-	-	60,126	4,120	64,247	-	-	-
California	11,397	-	11,397	-	305,494	34,885	340,380	-	-	170
Hawaii	16,871	-	16,871	-	5,474	65	5,539	-	-	-
Nevada	1,183	-	1,183	-	23,891	1,495	25,386	-	-	5
Oregon	1,482	7	1,490	-	22,381	21,114	43,494	-	-	43
Washington	134,865	2,577	137,442	-	37,064	22,324	59,389	-	-	232

Dashes (-) = No data reported.

Note: 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.

• Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 2000, (DOE/EIA-0340(00)/1).

Adjusted Sales of Fuel Oil and Kerosene in 2000

The following tables 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. Historically, kerosene estimates have always been adjusted at the PAD district level.

The products supplied estimates can be found in the 1996 through 2000 issues of the *Petroleum Supply An-*

nual. For certain sales categories, data obtained from alternate sources are used instead of the adjusted numbers. See "Technical Note 3" in the Appendix for further explanation of data adjustments.

Total domestic adjusted sales of fuel oil and kerosene increased 5.3 percent from 68.6 billion gallons in 1999 to 72.2 billion gallons in 2000. While adjusted sales of distillate and residual fuel oil increased 4.5 and 9.7 percent, respectively, in 2000, kerosene decrease 7.3 percent in 2000.

Table 13. Adjusted Sales of Distillate Fuel Oil by End Use in the United States: 1996-2000
(Thousand Gallons)

End Use	Distillate Fuel Oil				
	1996	1997	1998	1999	2000
U.S. Total	51,730,518	52,665,438	53,063,934	54,758,718	57,217,230
Residential	6,707,714	6,487,768	5,633,409	5,847,762	6,204,449
Commercial	3,433,555	3,218,497	3,044,495	3,003,653	3,372,596
Industrial	2,107,190	2,167,169	2,258,248	2,170,075	2,149,386
Oil Company	625,608	632,595	565,174	576,997	684,620
Farm	3,334,420	3,304,531	3,033,405	2,899,222	3,168,409
Electric Utility	684,263	646,778	962,921	912,807	793,162
Railroad	3,266,861	3,067,400	2,833,276	2,789,926	3,070,766
Vessel Bunkering	2,177,608	2,107,561	2,125,568	2,064,590	2,080,599
On-Highway Diesel	26,958,668	28,614,022	30,150,191	32,062,447	33,129,664
Military	371,093	337,390	277,688	288,926	233,210
Off-Highway Diesel	2,063,538	2,081,728	2,179,560	2,142,313	2,330,370

Dashes (-) = No data reported.

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

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

Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 1996-2000.

• Electric Utility data are based on data obtained on Form EIA-759, "Monthly Power Plant Report," and Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

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

• Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1996-2000, (DOE/EIA-0340(96)/1 - (00)/1).

Table 14. Adjusted Sales of Residual Fuel Oil by End Use in the United States: 1996-2000
(Thousand Gallons)

End Use	Residual Fuel Oil				
	1996	1997	1998	1999	2000
U.S. Total	13,041,042	12,213,390	13,599,558	12,725,916	13,966,134
Commercial	944,717	754,967	590,388	619,429	775,845
Industrial	2,127,457	1,815,165	1,484,331	1,630,313	1,851,139
Oil Company	170,471	153,424	105,233	118,898	179,285
Electric Utility	3,925,629	4,655,775	6,748,744	4,729,990	3,633,075
Vessel Bunkering	5,804,977	4,789,861	4,640,153	5,598,630	7,485,487
Military	57,249	40,311	27,779	24,647	33,198
All Other	10,542	3,886	2,930	4,009	8,107

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

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

Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 1996-2000.

• Electric Utility data are based on data obtained on Form EIA-759, "Monthly Power Plant Report," and Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

• Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1996-2000, (DOE/EIA-0340(96)/1 - (00)/1).

Table 15. Adjusted Sales of Kerosene by End Use in the United States: 1996-2000
(Thousand Gallons)

End Use	Kerosene				
	1996	1997	1998	1999	2000
U.S. Total	948,990	1,009,932	1,196,580	1,118,124	1,036,014
Residential	657,636	688,025	802,348	823,436	700,532
Commercial	155,792	182,559	230,743	199,577	219,633
Industrial	102,322	110,738	123,246	58,279	86,844
Farm	26,017	21,556	26,823	26,312	23,084
All Other	7,223	7,054	13,420	10,521	5,921

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

Note: Kerosene data in the Adjusted Sales tables (13-24) are adjusted at the national level. See Technical Note 3 for further explanation.

Sources: • Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1996-2000, (DOE/EIA-0340(96)/1 - (00)/1).

Table 16. Adjusted Sales of Distillate Fuel Oil by End Use, 1999 and 2000

(Thousand Gallons)

Destination	Residential		Commercial		Industrial	
	1999	2000	1999	2000	1999	2000
U.S. Total	5,847,762	6,204,449	3,003,653	3,372,596	2,170,075	2,149,386
PAD District I Total	5,067,702	5,399,194	1,994,985	2,141,784	729,922	649,726
Subdistrict IA Total	2,021,728	2,079,654	513,496	601,430	82,686	70,894
Connecticut	544,912	566,843	111,860	119,736	17,143	15,524
Maine	314,282	279,238	117,888	129,382	21,984	23,308
Massachusetts	752,643	820,588	161,736	208,931	19,469	15,276
New Hampshire	191,290	183,701	60,574	76,400	10,648	7,499
Rhode Island	133,476	130,927	21,509	25,230	6,125	4,083
Vermont	85,126	98,356	39,929	41,751	7,317	5,204
Subdistrict IB Total	2,663,492	2,913,570	1,084,674	1,098,953	255,222	212,326
Delaware	38,496	45,695	13,663	10,979	4,213	2,464
District of Columbia	8,811	8,746	14,147	22,530	-	15
Maryland	197,097	195,288	93,401	103,620	48,973	23,729
New Jersey	412,550	410,537	174,016	134,063	36,692	25,915
New York	1,196,908	1,414,015	588,863	607,187	57,298	45,371
Pennsylvania	809,630	839,289	200,585	220,573	108,045	114,832
Subdistrict IC Total	382,481	405,971	396,815	441,402	392,015	366,506
Florida	4,254	4,780	76,028	105,987	56,360	44,105
Georgia	2,309	2,873	51,136	49,674	52,873	60,433
North Carolina	125,313	129,960	91,267	107,519	74,136	66,896
South Carolina	21,229	19,362	44,032	30,446	31,774	23,775
Virginia	209,061	227,948	120,932	133,323	73,253	78,392
West Virginia	20,314	21,048	13,419	14,453	103,618	92,905
PAD District II Total	605,506	628,414	510,839	568,089	682,979	600,800
Illinois	19,417	17,092	56,060	66,481	74,446	67,470
Indiana	40,043	40,485	49,285	55,746	115,056	104,217
Iowa	20,531	19,975	18,616	19,941	26,590	13,016
Kansas	529	707	18,127	23,696	16,403	12,610
Kentucky	20,008	21,878	41,939	44,897	122,601	111,397
Michigan	114,503	120,422	53,590	65,426	48,029	38,007
Minnesota	80,374	95,183	33,977	36,870	37,532	45,665
Missouri	11,719	12,788	39,100	46,369	53,266	33,483
Nebraska	2,937	4,577	8,365	8,208	15,047	4,972
North Dakota	18,539	23,399	8,944	9,611	6,097	3,116
Ohio	131,252	124,446	69,230	72,204	65,677	68,759
Oklahoma	80	99	13,852	10,060	7,832	5,046
South Dakota	12,856	14,543	7,728	8,084	7,678	6,533
Tennessee	8,813	7,233	36,686	44,720	27,837	26,075
Wisconsin	123,903	125,586	55,341	55,777	58,889	60,435
PAD District III Total	1,438	1,117	197,931	346,578	373,809	420,400
Alabama	266	553	23,380	33,906	70,442	57,356
Arkansas	37	31	10,677	17,031	12,782	14,897
Louisiana	141	64	22,562	15,266	43,507	63,221
Mississippi	80	63	10,653	11,814	50,491	37,228
New Mexico	827	282	12,949	12,040	31,352	36,002
Texas	87	123	117,711	256,520	165,235	211,697
PAD District IV Total	39,032	38,761	115,813	102,905	198,292	241,146
Colorado	469	3,275	38,773	31,984	27,653	23,995
Idaho	22,700	20,937	24,578	22,839	28,149	35,263
Montana	10,748	8,979	6,776	7,539	17,588	18,391
Utah	3,765	4,187	28,288	19,363	36,114	43,499
Wyoming	1,351	1,383	17,398	21,180	88,789	119,997
PAD District V Total	134,085	136,962	184,084	213,240	185,074	237,313
Alaska	50,511	48,316	32,548	32,234	16,851	23,924
Arizona	89	110	23,483	24,205	47,598	60,324
California	4,254	6,729	68,215	86,622	34,810	45,033
Hawaii	7	9	6,457	6,094	1,200	2,011
Nevada	5,170	5,911	9,056	11,190	57,596	58,091
Oregon	27,061	27,423	20,712	27,734	17,519	29,763
Washington	46,993	48,464	23,615	25,160	9,501	18,168

See footnotes at end of table.

Table 16. Adjusted Sales of Distillate Fuel Oil by End Use, 1999 and 2000 (Continued)

(Thousand Gallons)

Destination	Oil Company		Farm		Electric Utility	
	1999	2000	1999	2000	1999	2000
U.S. Total	576,997	684,620	2,899,222	3,168,409	912,807	793,162
PAD District I Total	10,153	19,101	457,479	432,535	391,365	304,717
Subdistrict IA Total	12	268	27,381	24,064	15,017	11,295
Connecticut	10	268	4,648	4,899	2,294	1,813
Maine	—	—	7,308	5,811	758	249
Massachusetts	2	—	5,480	2,816	8,605	5,532
New Hampshire	—	—	2,690	3,731	1,789	1,023
Rhode Island	—	—	345	99	1,411	1,197
Vermont	—	—	6,909	6,708	161	1,481
Subdistrict IB Total	5,125	12,623	119,145	108,616	115,427	87,998
Delaware	2,368	4,237	7,182	7,286	9,778	4,473
District of Columbia	—	—	—	—	25,565	12,933
Maryland	15	4	25,131	22,842	23,340	16,504
New Jersey	222	2,843	14,836	8,351	8,557	7,172
New York	9	6	40,074	42,428	3,047	3,010
Pennsylvania	2,510	5,534	31,922	27,709	45,141	43,907
Subdistrict IC Total	5,016	6,209	310,953	299,855	260,922	205,423
Florida	213	309	113,775	98,469	159,238	102,713
Georgia	771	302	100,244	106,712	27,675	26,921
North Carolina	119	155	37,848	40,594	26,385	33,694
South Carolina	—	100	14,112	15,100	16,271	16,240
Virginia	3	596	40,034	36,350	16,189	14,394
West Virginia	3,911	4,746	4,940	2,631	15,163	11,460
PAD District II Total	26,160	41,727	1,381,814	1,611,956	242,885	133,971
Illinois	266	1,409	132,416	167,239	14,329	9,138
Indiana	2,164	2,623	68,994	72,241	51,543	17,307
Iowa	—	—	162,717	208,096	13,368	4,173
Kansas	4,480	6,904	143,085	142,500	15,708	8,411
Kentucky	407	745	26,520	29,647	9,402	6,982
Michigan	287	—	72,631	68,798	31,651	16,906
Minnesota	—	4	119,124	110,912	9,678	4,704
Missouri	46	10	68,418	64,894	18,483	9,154
Nebraska	21	—	129,831	165,051	4,579	2,577
North Dakota	1,514	5,608	74,459	95,563	2,726	1,931
Ohio	266	2,249	64,604	68,912	46,656	28,211
Oklahoma	16,635	22,143	63,335	73,666	1,527	2,109
South Dakota	73	25	60,820	63,314	950	2,479
Tennessee	—	7	32,365	39,064	15,065	15,983
Wisconsin	2	—	162,496	242,058	7,220	3,904
PAD District III Total	466,646	560,905	560,850	552,104	46,766	194,786
Alabama	615	136	23,616	21,789	9,095	7,823
Arkansas	1,666	1,540	88,045	101,874	16,454	4,027
Louisiana	238,523	294,331	73,758	80,639	3,457	13,108
Mississippi	3,759	3,678	66,903	71,241	2,894	2,105
New Mexico	14,329	28,282	21,898	15,173	2,878	2,268
Texas	207,755	232,938	286,630	261,388	11,988	165,455
PAD District IV Total	22,016	29,245	197,495	220,437	9,588	8,492
Colorado	5,719	6,897	54,457	60,411	3,426	4,680
Idaho	—	—	54,333	61,971	10	14
Montana	2,265	2,286	55,850	58,900	105	13
Utah	2,033	3,242	13,978	17,249	2,241	1,362
Wyoming	11,998	16,820	18,877	21,907	3,807	2,423
PAD District V Total	52,021	33,643	301,584	351,377	222,203	151,196
Alaska	44,666	25,912	9	31	74,832	36,124
Arizona	48	71	18,152	16,642	6,517	7,559
California	6,588	6,244	220,502	254,148	8,772	7,910
Hawaii	53	45	6,234	7,621	124,906	90,043
Nevada	28	33	3,653	4,557	1,399	857
Oregon	151	430	28,207	42,729	2,564	4,811
Washington	487	908	24,827	25,647	3,213	3,893

See footnotes at end of table.

Table 16. Adjusted Sales of Distillate Fuel Oil by End Use, 1999 and 2000 (Continued)

(Thousand Gallons)

Destination	Railroad		Vessel Bunkering		On-Highway	
	1999	2000	1999	2000	1999	2000
U.S. Total	2,789,926	3,070,766	2,064,590	2,080,599	32,062,447	33,129,664
PAD District I Total	442,247	499,787	477,035	490,150	9,939,376	10,228,244
Subdistrict IA Total	21,623	32,368	44,275	37,593	1,007,035	994,438
Connecticut	7,149	10,419	4,354	2,765	235,423	223,858
Maine	1,775	2,939	6,489	7,170	148,739	165,548
Massachusetts	11,425	18,057	21,843	21,049	377,063	398,877
New Hampshire	2	2	578	717	103,255	99,104
Rhode Island	288	-	10,578	5,328	55,570	54,105
Vermont	983	950	433	565	86,985	52,946
Subdistrict IB Total	111,548	169,518	167,240	186,750	3,673,911	3,659,966
Delaware	527	177	3,467	32,761	57,458	58,093
District of Columbia	3,594	3,648	3	3	22,114	23,124
Maryland	7,970	5,283	30,025	26,534	486,350	499,287
New Jersey	17,734	15,398	83,772	91,954	769,039	784,719
New York	31,658	42,446	14,658	14,488	1,011,088	946,272
Pennsylvania	50,066	102,565	35,315	21,011	1,327,862	1,348,471
Subdistrict IC Total	309,075	297,901	265,520	265,807	5,258,430	5,573,840
Florida	127,269	108,506	139,809	125,220	1,239,423	1,274,869
Georgia	73,494	69,301	17,697	23,405	1,322,651	1,381,691
North Carolina	53,900	60,129	11,279	8,726	879,015	1,017,088
South Carolina	13,051	15,387	12,732	12,681	590,776	617,908
Virginia	32,202	34,587	29,444	38,475	952,594	992,580
West Virginia	9,160	9,991	54,560	57,301	273,971	289,704
PAD District II Total	1,131,980	1,232,993	572,934	301,356	10,776,359	11,140,616
Illinois	123,357	107,581	37,997	47,628	1,292,335	1,275,542
Indiana	72,647	75,237	38,933	43,808	1,228,811	1,272,013
Iowa	37,658	25,754	7,120	5,257	494,842	496,774
Kansas	61,599	53,692	-	957	374,267	359,912
Kentucky	98,941	102,225	81,811	81,012	703,236	828,750
Michigan	47,516	44,007	3,942	4,947	905,067	911,342
Minnesota	61,201	62,747	5,916	4,285	604,536	656,568
Missouri	26,431	29,999	347,323	62,118	862,295	917,569
Nebraska	192,024	70,919	57	22	359,379	362,705
North Dakota	45,407	38,630	-	-	141,280	141,486
Ohio	80,631	149,585	2,922	3,593	1,516,451	1,504,632
Oklahoma	188,382	332,110	614	191	616,296	728,583
South Dakota	4,529	4,152	-	-	145,298	146,170
Tennessee	44,083	82,478	43,867	44,195	860,020	889,379
Wisconsin	47,573	53,877	2,433	3,343	672,246	649,191
PAD District III Total	677,282	686,342	791,814	1,033,333	5,376,448	5,643,703
Alabama	42,137	47,940	67,455	85,737	742,059	766,750
Arkansas	47,053	45,430	4,391	125	556,238	586,466
Louisiana	26,941	45,252	445,873	559,603	585,564	579,895
Mississippi	14,267	21,684	12,749	33,109	555,765	512,739
New Mexico	236	5,963	-	-	398,559	404,044
Texas	546,647	520,073	261,347	354,760	2,538,263	2,793,809
PAD District IV Total	271,050	344,586	434	173	1,484,538	1,474,611
Colorado	50,811	49,267	-	-	437,787	461,178
Idaho	29,778	46,797	254	150	214,688	215,438
Montana	62,303	79,100	-	-	187,434	189,707
Utah	23,425	33,463	36	24	300,016	337,256
Wyoming	104,733	135,959	145	-	344,613	271,032
PAD District V Total	267,368	307,059	222,373	255,586	4,485,726	4,642,490
Alaska	3,330	3,999	71,786	80,320	75,031	90,999
Arizona	2,270	3,897	18	22	660,624	630,293
California	152,415	189,444	73,039	100,623	2,458,325	2,632,760
Hawaii	-	-	15,683	13,445	32,680	33,506
Nevada	3,912	7,033	-	-	261,630	263,275
Oregon	65,433	75,417	9,995	9,554	428,584	E429,014
Washington	40,010	27,268	51,850	51,622	568,852	562,643

See footnotes at end of table.

Table 16. Adjusted Sales of Distillate Fuel Oil by End Use, 1999 and 2000 (Continued)

(Thousand Gallons)

Destination	Military		Off-Highway		All Other		Total	
	1999	2000	1999	2000	1999	2000	1999	2000
U.S. Total	288,926	233,210	2,142,313	2,330,370	-	-	54,758,718	57,217,230
PAD District I Total	67,490	70,801	647,976	669,923	-	-	20,225,730	20,905,962
Subdistrict IA Total	5,805	8,444	64,992	61,252	-	-	3,804,050	3,921,699
Connecticut	754	2,054	11,265	13,802	-	-	939,812	961,982
Maine	2,869	4,379	14,328	9,794	-	-	636,418	627,818
Massachusetts	464	190	26,447	19,782	-	-	1,385,177	1,511,098
New Hampshire	977	1,657	6,461	12,059	-	-	378,265	385,893
Rhode Island	288	31	3,433	2,447	-	-	233,022	223,446
Vermont	453	133	3,058	3,369	-	-	231,355	211,462
Subdistrict IB Total	22,721	23,653	191,891	199,636	-	-	8,410,395	8,673,611
Delaware	334	381	6,300	5,474	-	-	143,785	172,020
District of Columbia	186	4,446	5,921	1,333	-	-	80,340	76,777
Maryland	3,984	4,063	25,790	38,094	-	-	942,076	935,247
New Jersey	1,026	641	35,918	34,950	-	-	1,554,361	1,516,542
New York	5,658	4,289	47,902	44,052	-	-	2,997,164	3,163,567
Pennsylvania	11,532	9,833	70,060	75,733	-	-	2,692,669	2,809,457
Subdistrict IC Total	38,965	38,704	391,093	409,034	-	-	8,011,285	8,310,652
Florida	9,228	13,105	98,235	107,178	-	-	2,023,831	1,985,240
Georgia	4,234	2,950	108,915	92,440	-	-	1,762,001	1,816,701
North Carolina	11,470	2,947	54,066	61,201	-	-	1,364,799	1,528,911
South Carolina	1,968	1,596	46,586	51,008	-	-	792,531	803,603
Virginia	11,748	17,950	67,387	79,601	-	-	1,552,847	1,654,195
West Virginia	317	155	15,904	17,606	-	-	515,276	522,002
PAD District II Total	36,312	36,100	593,588	608,307	-	-	16,561,356	16,904,328
Illinois	7,081	903	75,281	87,423	-	-	1,832,984	1,847,905
Indiana	3,460	285	30,534	47,665	-	-	1,701,471	1,731,627
Iowa	492	182	36,879	28,933	-	-	818,814	822,101
Kansas	178	457	20,513	23,796	-	-	654,888	633,642
Kentucky	2,063	957	39,605	42,250	-	-	1,146,533	1,270,739
Michigan	421	423	66,766	61,453	-	-	1,344,402	1,331,732
Minnesota	1,373	534	45,680	44,945	-	-	999,390	1,062,417
Missouri	4,105	3,016	64,465	52,696	-	-	1,495,650	1,232,095
Nebraska	2,641	1,051	15,609	18,532	-	-	730,489	638,615
North Dakota	489	394	8,264	10,044	-	-	307,720	329,784
Ohio	4,324	20,972	71,006	62,055	-	-	2,053,019	2,105,618
Oklahoma	131	351	23,886	37,757	-	-	932,571	1,212,114
South Dakota	1,996	28	9,274	10,186	-	-	251,203	255,515
Tennessee	1,568	595	41,001	36,205	-	-	1,111,305	1,185,934
Wisconsin	5,991	5,952	44,825	44,366	-	-	1,180,918	1,244,491
PAD District III Total	119,897	9,250	466,721	516,989	-	-	9,079,602	9,965,508
Alabama	1,999	2,515	58,461	53,949	-	-	1,039,526	1,078,453
Arkansas	1,150	202	42,192	64,222	-	-	780,685	835,846
Louisiana	4,419	2,568	83,786	84,022	-	-	1,528,530	1,737,969
Mississippi	2,864	2,669	39,841	36,375	-	-	760,264	732,705
New Mexico	1,235	325	21,591	23,522	-	-	505,854	527,901
Texas	108,230	971	220,851	254,899	-	-	4,464,744	5,052,634
PAD District IV Total	2,932	4,163	184,732	180,094	-	-	2,525,922	2,644,614
Colorado	537	793	64,285	81,774	-	-	683,917	724,255
Idaho	680	615	34,500	30,383	-	-	409,670	434,407
Montana	210	59	18,925	21,069	-	-	362,203	386,042
Utah	1,310	2,621	32,995	27,446	-	-	444,200	489,712
Wyoming	195	75	34,026	19,423	-	-	625,932	610,198
PAD District V Total	62,295	112,895	249,297	355,056	-	-	6,366,108	6,796,818
Alaska	4,544	6,044	20,342	13,377	-	-	394,450	361,281
Arizona	-	-	37,501	40,770	-	-	796,299	783,893
California	7,082	7,232	105,005	215,998	-	-	3,139,007	3,552,744
Hawaii	17,469	10,706	3,134	3,515	-	-	207,822	166,995
Nevada	554	751	6,805	16,109	-	-	349,802	367,806
Oregon	1,732	945	21,684	27,601	-	-	623,641	675,421
Washington	30,914	87,218	54,826	37,687	-	-	855,087	888,677

^E Estimated data.

Dashes (-) = No data reported.

Note: 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 1999 and 2000.

• Electric Utility data are based on data obtained on Form EIA-759, "Monthly Power Plant Report," and Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

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

Table 17. Adjusted Sales of Residual Fuel Oil by End Use, 1999 and 2000

(Thousand Gallons)

Destination	Commercial		Industrial		Oil Company		Electric Utility	
	1999	2000	1999	2000	1999	2000	1999	2000
U.S. Total	619,429	775,845	1,630,313	1,851,139	118,898	179,285	4,729,990	3,633,075
PAD District I Total	589,678	744,122	1,235,458	1,386,888	77,771	85,516	3,945,889	3,000,908
Subdistrict IA Total	110,052	133,312	403,273	415,218	—	—	695,955	381,994
Connecticut	11,158	11,612	21,434	19,915	—	—	460,253	116,886
Maine	5,772	13,470	280,575	283,080	—	—	53,656	28,583
Massachusetts	62,918	73,901	47,781	58,407	—	—	45,585	200,454
New Hampshire	6,682	6,633	31,470	29,089	—	—	119,948	16,392
Rhode Island	19,734	22,298	14,145	13,679	—	—	16,513	19,679
Vermont	3,787	5,398	7,868	11,048	—	—	—	—
Subdistrict IB Total	463,446	578,124	237,062	264,630	77,528	85,516	1,286,190	733,124
Delaware	5,285	12,035	41,559	34,959	20,571	41,577	64,576	23,117
District of Columbia	95	29	—	5	—	—	—	—
Maryland	2,770	4,628	30,739	28,390	737	752	269,717	72,549
New Jersey	31,380	25,487	27,315	29,243	6,325	2,201	150,163	113,069
New York	395,230	502,184	85,388	105,959	840	843	659,514	443,546
Pennsylvania	28,686	33,761	52,062	66,074	49,056	40,143	142,220	80,843
Subdistrict IC Total	16,181	32,686	595,123	707,040	243	—	1,963,744	1,885,790
Florida	692	812	165,214	179,119	—	—	1,827,562	1,778,307
Georgia	10	256	55,952	69,216	—	—	6,182	19,685
North Carolina	5,325	5,997	219,238	251,337	—	—	48	—
South Carolina	510	2,685	59,410	92,368	104	—	5,356	4,052
Virginia	9,644	22,937	90,382	99,413	139	—	124,597	83,746
West Virginia	—	—	4,928	15,587	—	—	—	—
PAD District II Total	24,351	25,165	197,584	267,993	19,701	27,377	101,411	61,959
Illinois	4,157	742	8,328	12,205	—	744	17,191	7,887
Indiana	126	82	16,661	24,699	2	—	—	—
Iowa	—	135	5,326	7,461	—	—	—	206
Kansas	—	168	11,862	21,367	—	—	8,239	7,866
Kentucky	39	433	4,072	4,335	—	—	—	25
Michigan	140	255	12,263	27,455	5,344	5,619	73,496	43,501
Minnesota	8,234	7,301	14,545	22,846	6,406	7,502	2,205	2,075
Missouri	1,404	1,670	5,796	3,831	—	—	—	107
Nebraska	155	439	3,692	6,139	—	—	—	—
North Dakota	793	656	2,449	3,494	—	—	281	292
Ohio	—	—	59,738	74,875	3,620	4,235	—	—
Oklahoma	—	—	5,902	9,224	—	3,389	—	—
South Dakota	412	3,692	4,262	3,375	—	—	—	—
Tennessee	—	—	2,642	3,500	—	—	—	—
Wisconsin	8,891	9,592	40,047	43,186	4,329	5,888	—	—
PAD District III Total	—	11	137,644	171,206	—	2,275	237,281	199,854
Alabama	—	11	31,535	68,982	—	2,275	—	—
Arkansas	—	—	886	473	—	—	4,519	7,609
Louisiana	—	—	63,436	72,838	—	—	31,018	24,570
Mississippi	—	—	609	370	—	—	201,743	162,758
New Mexico	—	—	7,467	7,166	—	—	—	—
Texas	—	—	33,711	21,377	—	—	—	4,915
PAD District IV Total	691	914	3,897	4,222	490	—	—	—
Colorado	57	—	45	—	—	—	—	—
Idaho	—	—	319	105	—	—	—	—
Montana	117	35	491	—	469	—	—	—
Utah	517	867	2,643	2,902	21	—	—	—
Wyoming	—	13	400	1,215	—	—	—	—
PAD District V Total	4,708	5,632	55,730	20,829	20,936	64,116	445,409	370,354
Alaska	—	—	—	—	—	—	—	—
Arizona	—	—	1,453	1,228	—	—	—	—
California	—	27	26,451	5,738	3,816	—	—	976
Hawaii	306	444	577	1,625	17,087	21,682	445,409	369,378
Nevada	356	446	1,005	—	—	—	—	—
Oregon	2,544	3,274	7,601	7,328	32	45	—	—
Washington	1,503	1,441	18,643	4,910	1	42,389	—	—

See footnotes at end of table.

Table 17. Adjusted Sales of Residual Fuel Oil by End Use, 1999 and 2000 (Continued)

(Thousand Gallons)

Destination	Vessel Bunkering		Military		All Other		Total	
	1999	2000	1999	2000	1999	2000	1999	2000
U.S. Total	5,598,630	7,485,487	24,647	33,198	4,009	8,107	12,725,916	13,966,134
PAD District I Total	1,614,335	2,340,865	19,628	16,430	3,863	7,997	7,486,623	7,582,726
Subdistrict IA Total	6,028	64,739	5,896	2,495	139	449	1,221,343	998,206
Connecticut	23	500	630	658	57	306	493,556	149,877
Maine	4,889	35,525	5,031	1,575	-	-	349,923	362,233
Massachusetts	933	28,422	207	262	41	143	157,465	361,588
New Hampshire	8	-	28	-	-	-	158,136	52,114
Rhode Island	175	292	-	-	-	-	50,567	55,948
Vermont	-	-	-	-	41	-	11,696	16,446
Subdistrict IB Total	1,076,828	1,452,022	9,022	11,144	-	-	3,150,076	3,124,561
Delaware	92,459	86,506	149	579	-	-	224,599	198,772
District of Columbia	-	-	-	-	-	-	95	34
Maryland	47,484	35,985	4,427	5,911	-	-	355,873	148,216
New Jersey	343,418	650,432	745	719	-	-	559,346	821,150
New York	329,969	429,130	1,403	3,640	-	-	1,472,344	1,485,302
Pennsylvania	263,497	249,970	2,298	296	-	-	537,818	471,086
Subdistrict IC Total	531,479	824,103	4,710	2,791	3,724	7,548	3,115,204	3,459,959
Florida	404,228	531,375	-	-	3,436	7,029	2,401,132	2,496,642
Georgia	40,117	43,812	-	-	-	-	102,261	132,969
North Carolina	6,989	6,809	-	-	288	519	231,887	264,661
South Carolina	20,056	19,868	-	-	-	-	85,435	118,973
Virginia	60,090	222,240	4,710	2,791	-	-	289,562	431,127
West Virginia	-	-	-	-	-	-	4,928	15,587
PAD District II Total	17,328	32,780	688	3,902	73	53	361,136	419,229
Illinois	1,315	1,014	289	3,902	38	-	31,317	26,494
Indiana	13,048	16,078	-	-	-	-	29,837	40,859
Iowa	-	-	-	-	-	-	5,326	7,801
Kansas	-	-	399	-	-	-	20,500	29,401
Kentucky	-	-	-	-	-	-	4,111	4,792
Michigan	1,912	2,551	-	-	35	53	93,190	79,435
Minnesota	67	11,817	-	-	-	-	31,458	51,541
Missouri	256	310	-	-	-	-	7,456	5,918
Nebraska	-	-	-	-	-	-	3,847	6,577
North Dakota	-	-	-	-	-	-	3,524	4,443
Ohio	383	653	-	-	-	-	63,741	79,764
Oklahoma	-	-	-	-	-	-	5,902	12,613
South Dakota	-	-	-	-	-	-	4,673	7,067
Tennessee	-	-	-	-	-	-	2,642	3,500
Wisconsin	346	358	-	-	-	-	53,613	59,023
PAD District III Total	2,103,348	2,779,725	-	12,866	32	57	2,478,304	3,165,994
Alabama	46,093	153,985	-	-	-	-	77,628	225,253
Arkansas	-	-	-	-	-	-	5,405	8,083
Louisiana	1,080,421	1,447,036	-	-	-	-	1,174,875	1,544,445
Mississippi	48,644	72,759	-	-	-	-	250,997	235,887
New Mexico	-	-	-	-	32	57	7,499	7,222
Texas	928,189	1,105,945	-	12,866	-	-	961,901	1,145,103
PAD District IV Total	-	-	-	-	42	-	5,119	5,137
Colorado	-	-	-	-	-	-	102	-
Idaho	-	-	-	-	1	-	320	105
Montana	-	-	-	-	-	-	1,076	35
Utah	-	-	-	-	17	-	3,197	3,769
Wyoming	-	-	-	-	24	-	424	1,228
PAD District V Total	1,863,620	2,332,116	4,331	-	-	-	2,394,734	2,793,048
Alaska	12,216	6,283	-	-	-	-	12,216	6,283
Arizona	-	-	-	-	-	-	1,453	1,228
California	1,232,773	1,786,334	979	-	-	-	1,264,018	1,793,076
Hawaii	87,399	118,560	3,351	-	-	-	554,130	511,690
Nevada	-	-	-	-	-	-	1,361	446
Oregon	126,939	67,536	-	-	-	-	137,116	78,182
Washington	404,293	353,403	-	-	-	-	424,440	402,143

Dashes (-) = No data reported.

Note: 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 1999 and 2000.

• Electric Utility data are based on data obtained on Form EIA-759, "Monthly Power Plant Report," and Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

• Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1999 and 2000, (DOE/EIA-0340(99)/1 - (00)/1).

Table 18. Adjusted Sales of Kerosene by End Use, 1999 and 2000

(Thousand Gallons)

Destination	Residential		Commercial		Industrial	
	1999	2000	1999	2000	1999	2000
U.S. Total	823,436	700,532	199,577	219,633	58,279	86,844
PAD District I Total	562,304	575,312	170,373	186,620	33,031	56,347
Subdistrict IA Total	108,444	119,859	23,426	18,957	8,242	12,666
Connecticut	7,413	8,358	3,424	4,978	4,045	8,013
Maine	64,632	70,596	5,651	5,719	604	485
Massachusetts	7,502	8,011	9,447	4,487	863	345
New Hampshire	15,828	16,492	1,755	1,995	303	282
Rhode Island	2,069	2,712	1,671	803	777	8
Vermont	11,000	13,691	1,478	975	1,650	3,533
Subdistrict IB Total	242,254	255,053	117,764	138,001	16,853	31,149
Delaware	5,235	5,510	2,184	5,713	86	262
District of Columbia	220	126	9,539	10,215	-	-
Maryland	21,983	21,221	10,682	15,226	1,216	979
New Jersey	11,324	12,542	52,261	49,946	8,817	18,012
New York	97,741	98,456	28,634	39,810	1,797	4,905
Pennsylvania	105,751	117,199	14,464	17,091	4,937	6,991
Subdistrict IC Total	211,605	200,400	29,183	29,662	7,936	12,532
Florida	6,762	4,163	2,574	1,186	1,667	3,369
Georgia	10,110	8,310	1,558	1,722	799	1,201
North Carolina	83,371	83,110	7,753	9,820	1,200	1,778
South Carolina	23,207	21,573	1,277	2,280	3,021	4,008
Virginia	65,027	68,945	13,327	11,604	796	1,316
West Virginia	23,128	14,299	2,694	3,050	453	860
PAD District II Total	234,778	93,044	20,027	24,695	13,998	15,403
Illinois	21,850	5,102	3,534	2,859	1,241	1,987
Indiana	55,789	15,098	1,721	2,007	1,021	755
Iowa	990	1,096	185	253	61	132
Kansas	14,537	830	157	216	200	195
Kentucky	36,286	13,270	2,799	2,926	4,509	3,093
Michigan	25,452	14,959	1,567	1,380	1,312	1,507
Minnesota	1,344	1,375	837	2,260	64	58
Missouri	2,298	2,889	733	933	341	446
Nebraska	268	335	57	44	9	2
North Dakota	710	118	31	62	10	34
Ohio	54,378	17,604	5,411	5,553	2,560	2,575
Oklahoma	376	2,474	487	1,349	237	569
South Dakota	179	149	30	33	12	18
Tennessee	17,768	15,887	2,192	4,419	2,018	3,676
Wisconsin	2,555	1,857	285	399	404	356
PAD District III Total	9,115	7,057	5,231	3,634	8,021	13,159
Alabama	1,846	1,944	234	388	672	460
Arkansas	1,504	1,048	160	189	73	105
Louisiana	2,624	1,090	382	343	332	2,033
Mississippi	874	1,476	1,828	344	1,550	973
New Mexico	951	238	254	345	211	243
Texas	1,316	1,262	2,374	2,025	5,184	9,345
PAD District IV Total	1,234	1,858	624	589	688	330
Colorado	686	1,220	393	319	87	66
Idaho	256	417	62	73	220	77
Montana	58	7	2	-	4	3
Utah	182	156	149	181	201	177
Wyoming	53	57	18	16	176	9
PAD District V Total	16,006	23,261	3,322	4,094	2,541	1,605
Alaska	707	564	26	15	1	2
Arizona	81	61	200	113	84	52
California	7,846	11,788	1,204	2,194	1,383	791
Hawaii	-	-	2	6	4	4
Nevada	319	337	107	83	80	12
Oregon	3,422	7,799	1,283	1,189	511	591
Washington	3,631	2,711	499	493	478	154

See footnotes at end of table.

Table 18. Adjusted Sales of Kerosene by End Use, 1999 and 2000 (Continued)

(Thousand Gallons)

Destination	Farm		All Other		Total	
	1999	2000	1999	2000	1999	2000
U.S. Total	26,312	23,084	10,521	5,921	1,118,124	1,036,014
PAD District I Total	8,471	7,515	5,491	1,957	779,669	827,752
Subdistrict IA Total	1,277	1,120	564	270	141,954	152,872
Connecticut	22	36	24	1	14,927	21,385
Maine	342	419	86	30	71,315	77,249
Massachusetts	1	27	76	74	17,889	12,943
New Hampshire	341	259	134	52	18,360	19,079
Rhode Island	-	-	20	35	4,537	3,558
Vermont	572	380	225	78	14,925	18,657
Subdistrict IB Total	3,652	3,053	1,698	784	382,222	428,040
Delaware	29	27	-	-	7,534	11,511
District of Columbia	-	-	-	-	9,759	10,341
Maryland	287	244	17	31	34,186	37,701
New Jersey	8	18	51	29	72,461	80,547
New York	894	936	544	482	129,610	144,589
Pennsylvania	2,434	1,829	1,086	241	128,671	143,351
Subdistrict IC Total	3,542	3,343	3,228	904	255,494	246,840
Florida	641	653	2,290	27	13,934	9,398
Georgia	720	515	18	1	13,204	11,748
North Carolina	415	555	329	584	93,068	95,847
South Carolina	443	686	62	79	28,010	28,626
Virginia	1,039	860	516	197	80,705	82,922
West Virginia	285	74	13	15	26,572	18,299
PAD District II Total	11,957	12,069	3,238	1,991	283,998	147,201
Illinois	935	802	203	195	27,762	10,945
Indiana	1,604	892	767	443	60,903	19,195
Iowa	1,688	1,595	98	71	3,021	3,146
Kansas	218	219	12	57	15,124	1,517
Kentucky	728	1,382	262	128	44,584	20,799
Michigan	474	269	340	81	29,145	18,196
Minnesota	2,863	2,651	162	106	5,270	6,451
Missouri	143	127	33	28	3,548	4,422
Nebraska	126	208	18	53	477	642
North Dakota	25	230	13	21	789	465
Ohio	1,433	1,346	325	81	64,108	27,160
Oklahoma	94	147	714	555	1,908	5,094
South Dakota	50	35	5	11	275	246
Tennessee	154	263	53	35	22,185	24,280
Wisconsin	1,423	1,904	233	125	4,900	4,642
PAD District III Total	1,320	1,346	1,360	1,273	25,046	26,469
Alabama	23	10	730	466	3,505	3,268
Arkansas	435	57	55	8	2,226	1,406
Louisiana	64	447	238	266	3,640	4,178
Mississippi	5	26	122	3	4,378	2,822
New Mexico	518	344	34	48	1,968	1,218
Texas	274	463	182	482	9,329	13,576
PAD District IV Total	104	136	147	249	2,797	3,163
Colorado	55	58	121	74	1,341	1,737
Idaho	27	30	1	1	566	597
Montana	9	19	2	2	75	32
Utah	12	28	3	3	546	545
Wyoming	1	1	21	169	269	252
PAD District V Total	4,461	2,018	285	451	26,614	31,429
Alaska	-	-	-	-	733	581
Arizona	4	4	1	-	370	230
California	1,479	643	189	170	12,102	15,587
Hawaii	-	-	-	-	7	10
Nevada	568	20	-	5	1,075	457
Oregon	1,884	671	24	43	7,125	10,294
Washington	525	680	69	232	5,203	4,271

Dashes (-) = No data reported.

Note: 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 1999 and 2000.

• Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1999 and 2000, (DOE/EIA-0340(99)/1 - (00)/1).

Table 19. Adjusted Sales for Residential Use: Distillate Fuel Oil and Kerosene, 2000
(Thousand Gallons)

Destination	Distillate Fuel Oil			Kerosene
	No. 1	No. 2	Total	
U.S. Total	118,154	6,086,295	6,204,449	700,532
PAD District I Total	8,087	5,391,107	5,399,194	575,312
Subdistrict IA Total	3,918	2,075,736	2,079,654	119,859
Connecticut	118	566,725	566,843	8,358
Maine	2,353	276,885	279,238	70,596
Massachusetts	-	820,588	820,588	8,011
New Hampshire	1,447	182,254	183,701	16,492
Rhode Island	-	130,927	130,927	2,712
Vermont	-	98,356	98,356	13,691
Subdistrict IB Total	1,898	2,911,671	2,913,569	255,053
Delaware	761	44,933	45,694	5,510
District of Columbia	-	8,746	8,746	126
Maryland	117	195,170	195,287	21,221
New Jersey	224	410,313	410,537	12,542
New York	20	1,413,995	1,414,015	98,456
Pennsylvania	775	838,514	839,289	117,199
Subdistrict IC Total	2,271	403,700	405,971	200,400
Florida	-	4,780	4,780	4,163
Georgia	-	2,873	2,873	8,310
North Carolina	345	129,615	129,960	83,110
South Carolina	194	19,168	19,362	21,573
Virginia	874	227,074	227,948	68,945
West Virginia	858	20,191	21,049	14,299
PAD District II Total	71,679	556,735	628,414	93,044
Illinois	1,948	15,144	17,092	5,102
Indiana	8,005	32,480	40,485	15,098
Iowa	4,646	15,329	19,975	1,096
Kansas	140	568	708	830
Kentucky	398	21,480	21,878	13,270
Michigan	8,547	111,876	120,423	14,959
Minnesota	18,639	76,544	95,183	1,375
Missouri	2,118	10,670	12,788	2,889
Nebraska	990	3,587	4,577	335
North Dakota	3,585	19,814	23,399	118
Ohio	5,864	118,582	124,446	17,604
Oklahoma	41	57	98	2,474
South Dakota	3,970	10,573	14,543	149
Tennessee	1,416	5,817	7,233	15,887
Wisconsin	11,373	114,213	125,586	1,857
PAD District III Total	102	1,015	1,117	7,057
Alabama	12	541	553	1,944
Arkansas	1	30	31	1,048
Louisiana	-	64	64	1,090
Mississippi	-	63	63	1,476
New Mexico	33	249	282	238
Texas	55	68	123	1,262
PAD District IV Total	9,232	29,529	38,761	1,858
Colorado	325	2,950	3,275	1,220
Idaho	5,121	15,816	20,937	417
Montana	3,099	5,880	8,979	7
Utah	508	3,679	4,187	156
Wyoming	179	1,203	1,382	57
PAD District V Total	29,052	107,910	136,962	23,261
Alaska	23,039	25,276	48,315	564
Arizona	9	101	110	61
California	211	6,518	6,729	11,788
Hawaii	-	9	9	-
Nevada	162	5,749	5,911	337
Oregon	3,047	24,376	27,423	7,799
Washington	2,584	45,880	48,464	2,711

Dashes (-) = No data reported.

Note: 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.

• Energy Information Administration's "Petroleum Supply Annual," Volume 1, 2000, (DOE/EIA-0340(00)/1).

Table 20. Adjusted Sales for Commercial Use: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 2000
(Thousand Gallons)

Destination	Distillate Fuel Oil						Residual Fuel Oil	Kerosene	
	No. 1 Distillate	No. 2 Distillate			No. 4 Fuel	Total Distillate			
		No. 2 Fuel Oil	Low Sulfur Diesel	High Sulfur Diesel					No. 2 Total
U.S. Total	63,532	1,576,359	1,060,595	473,960	3,110,914	198,150	3,372,596	775,845	219,633
PAD District I Total	2,613	1,304,379	418,211	219,218	1,941,807	197,364	2,141,784	744,122	186,620
Subdistrict IA Total	397	449,415	101,267	18,148	568,830	32,202	601,430	133,312	18,957
Connecticut	122	90,781	22,458	1,867	115,106	4,508	119,736	11,612	4,978
Maine	78	93,719	31,906	1,719	127,344	1,960	129,382	13,470	5,719
Massachusetts	28	158,474	22,953	9,238	190,664	18,238	208,931	73,901	4,487
New Hampshire	-	53,175	18,403	1,017	72,595	3,805	76,400	6,633	1,995
Rhode Island	167	20,415	2,399	347	23,161	1,902	25,230	22,298	803
Vermont	2	32,851	3,148	3,960	39,960	1,789	41,751	5,398	975
Subdistrict IB Total	1,821	740,359	129,387	66,616	936,362	160,770	1,098,953	578,124	138,001
Delaware	-	7,661	2,048	726	10,435	544	10,979	12,035	5,713
District of Columbia	5	16,175	3,137	1,117	20,429	2,095	22,530	29	10,215
Maryland	694	65,738	23,610	12,173	101,521	1,405	103,620	4,628	15,226
New Jersey	141	97,464	18,172	11,210	126,845	7,076	134,063	25,487	49,946
New York	539	405,592	40,005	16,224	461,822	144,826	607,187	502,184	39,810
Pennsylvania	440	147,728	42,416	25,165	215,309	4,824	220,573	33,761	17,091
Subdistrict IC Total	396	114,605	187,557	134,454	436,615	4,391	441,402	32,686	29,662
Florida	-	3,466	63,390	38,484	105,340	647	105,987	812	1,186
Georgia	3	4,905	21,677	22,821	49,403	268	49,674	256	1,722
North Carolina	6	27,768	45,383	31,921	105,072	2,441	107,519	5,997	9,820
South Carolina	-	7,783	15,779	6,884	30,446	-	30,446	2,685	2,280
Virginia	38	66,876	36,894	28,649	132,419	866	133,323	22,937	11,604
West Virginia	349	3,807	4,435	5,694	13,936	168	14,453	-	3,050
PAD District II Total	35,978	102,351	275,983	153,028	531,363	748	568,089	25,165	24,695
Illinois	6,366	6,312	33,863	19,938	60,114	-	66,481	742	2,859
Indiana	3,107	13,678	28,304	10,658	52,639	-	55,746	82	2,007
Iowa	4,380	5,046	9,423	1,093	15,561	-	19,941	135	253
Kansas	2,263	754	16,099	4,580	21,433	-	23,696	168	216
Kentucky	471	5,619	22,189	16,129	43,937	488	44,897	433	2,926
Michigan	1,256	8,916	39,577	15,670	64,163	7	65,426	255	1,380
Minnesota	3,784	13,415	12,642	7,028	33,086	-	36,870	7,301	2,260
Missouri	1,631	5,402	9,519	29,714	44,635	102	46,369	1,670	933
Nebraska	3,051	537	3,127	1,408	5,072	85	8,208	439	44
North Dakota	1,167	2,263	4,835	1,346	8,444	-	9,611	656	62
Ohio	2,442	12,313	37,929	19,521	69,762	-	72,204	-	5,553
Oklahoma	18	141	8,136	1,766	10,042	-	10,060	-	1,349
South Dakota	1,085	3,955	2,248	796	7,000	-	8,084	3,692	33
Tennessee	92	4,120	23,903	16,539	44,561	67	44,720	-	4,419
Wisconsin	4,865	19,880	24,189	6,842	50,912	-	55,777	9,592	399
PAD District III Total	934	141,457	146,002	58,185	345,644	-	346,578	11	3,634
Alabama	-	1,239	22,415	10,253	33,906	-	33,906	11	388
Arkansas	-	16	9,141	7,875	17,031	-	17,031	-	189
Louisiana	88	9	7,339	7,831	15,178	-	15,266	-	343
Mississippi	-	-	5,855	5,959	11,814	-	11,814	-	344
New Mexico	91	332	9,886	1,731	11,949	-	12,040	-	345
Texas	755	139,861	91,367	24,537	255,766	-	256,520	-	2,025
PAD District IV Total	10,854	7,382	69,145	15,523	92,051	-	102,905	914	589
Colorado	4,311	1,650	25,514	510	27,674	-	31,984	-	319
Idaho	1,459	1,224	13,373	6,784	21,381	-	22,839	-	73
Montana	806	3,427	3,223	83	6,733	-	7,539	35	-
Utah	1,012	713	9,777	7,860	18,351	-	19,363	867	181
Wyoming	3,267	369	17,258	287	17,913	-	21,180	13	16
PAD District V Total	13,153	20,790	151,254	28,005	200,049	38	213,240	5,632	4,094
Alaska	10,230	12,391	3,913	5,681	21,985	20	32,234	-	15
Arizona	57	3	22,284	1,846	24,133	15	24,205	-	113
California	366	2,963	78,605	4,689	86,257	-	86,622	27	2,194
Hawaii	-	47	3,000	3,047	6,094	-	6,094	444	6
Nevada	200	1,493	9,274	223	10,990	-	11,190	446	83
Oregon	922	2,839	18,040	5,929	26,809	4	27,734	3,274	1,189
Washington	1,378	1,054	16,139	6,589	23,782	-	25,160	1,441	493

Dashes (-) = No data reported.

Note: 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.

• Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 2000, (DOE/EIA-0340(00)/1).

Table 21. Adjusted Sales for Industrial Use: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 2000
(Thousand Gallons)

Destination	Distillate Fuel Oil						Residual Fuel Oil	Kerosene	
	No. 1 Distillate	No. 2 Distillate			No. 4 Fuel	Total Distillate			
		No. 2 Fuel Oil	Low Sulfur Diesel	High Sulfur Diesel					No. 2 Total
U.S. Total	54,323	356,679	809,918	889,264	2,055,862	39,201	2,149,386	1,851,139	86,844
PAD District I Total	1,278	218,887	115,748	280,705	615,340	33,108	649,726	1,386,888	56,347
Subdistrict IA Total	383	37,302	17,725	4,386	59,413	11,097	70,894	415,218	12,666
Connecticut	-	8,773	1,338	47	10,158	5,367	15,524	19,915	8,013
Maine	32	13,690	6,796	1,157	21,642	1,634	23,308	283,080	485
Massachusetts	-	4,579	7,080	2,608	14,267	1,008	15,276	58,407	345
New Hampshire	351	4,566	1,985	7	6,558	590	7,499	29,089	282
Rhode Island	-	2,710	191	16	2,917	1,166	4,083	13,679	8
Vermont	-	2,983	336	552	3,871	1,332	5,204	11,048	3,533
Subdistrict IB Total	596	109,966	27,805	57,635	195,406	16,324	212,326	264,630	31,149
Delaware	-	591	1,478	345	2,414	50	2,464	34,959	262
District of Columbia	-	15	-	-	15	-	15	5	-
Maryland	583	11,820	4,086	5,707	21,612	1,534	23,729	28,390	979
New Jersey	4	16,413	1,271	2,779	20,464	5,448	25,915	29,243	18,012
New York	-	33,218	4,109	1,804	39,131	6,239	45,371	105,959	4,905
Pennsylvania	10	47,909	16,861	47,000	111,770	3,052	114,832	66,074	6,991
Subdistrict IC Total	298	71,619	70,217	218,684	360,520	5,687	366,506	707,040	12,532
Florida	-	7,613	14,225	21,211	43,048	1,057	44,105	179,119	3,369
Georgia	-	6,187	18,849	33,745	58,781	1,652	60,433	69,216	1,201
North Carolina	-	19,293	19,688	27,535	66,515	381	66,896	251,337	1,778
South Carolina	-	8,217	7,653	7,648	23,517	257	23,775	92,368	4,008
Virginia	1	17,493	6,507	52,051	76,051	2,340	78,392	99,413	1,316
West Virginia	297	12,816	3,296	76,495	92,607	-	92,905	15,587	860
PAD District II Total	26,146	110,784	175,541	285,135	571,460	3,194	600,800	267,993	15,403
Illinois	3,339	5,398	30,019	28,715	64,132	-	67,470	12,205	1,987
Indiana	5,711	30,902	19,849	47,278	98,029	477	104,217	24,699	755
Iowa	854	1,271	8,376	2,515	12,163	-	13,016	7,461	132
Kansas	765	119	8,124	3,596	11,839	6	12,610	21,367	195
Kentucky	-	8,213	9,890	93,233	111,336	60	111,397	4,335	3,093
Michigan	746	6,271	12,207	16,982	35,460	1,800	38,007	27,455	1,507
Minnesota	5,312	22,771	15,915	1,556	40,242	111	45,665	22,846	58
Missouri	2,199	1,913	11,876	17,495	31,284	-	33,483	3,831	446
Nebraska	1,057	111	1,373	2,431	3,916	-	4,972	6,139	2
North Dakota	783	125	1,620	588	2,333	-	3,116	3,494	34
Ohio	470	9,150	21,479	37,557	68,186	103	68,759	74,875	2,575
Oklahoma	-	309	1,229	3,508	5,046	-	5,046	9,224	569
South Dakota	710	4,231	1,326	183	5,741	82	6,533	3,375	18
Tennessee	-	251	13,879	11,689	25,819	256	26,075	3,500	3,676
Wisconsin	4,202	19,746	18,378	17,810	55,934	300	60,435	43,186	356
PAD District III Total	2,728	4,282	193,039	218,373	415,694	1,979	420,400	171,206	13,159
Alabama	111	551	22,343	32,943	55,837	1,408	57,356	68,982	460
Arkansas	-	122	5,521	9,254	14,897	-	14,897	473	105
Louisiana	-	116	6,667	56,438	63,221	-	63,221	72,838	2,033
Mississippi	-	-	8,126	29,091	37,217	11	37,228	370	973
New Mexico	2,617	1,454	30,100	1,831	33,384	-	36,002	7,166	243
Texas	-	2,038	120,284	88,815	211,137	560	211,697	21,377	9,345
PAD District IV Total	12,767	7,543	202,407	18,358	228,308	72	241,146	4,222	330
Colorado	1,240	196	21,599	961	22,756	-	23,995	-	66
Idaho	3,442	4,308	16,967	10,546	31,821	-	35,263	105	77
Montana	1,165	63	16,972	182	17,217	10	18,391	-	3
Utah	2,059	243	34,706	6,492	41,440	-	43,499	2,902	177
Wyoming	4,861	2,733	112,163	178	115,074	62	119,997	1,215	9
PAD District V Total	11,405	15,184	123,184	86,693	225,060	848	237,313	20,829	1,605
Alaska	10,229	3,966	19	9,710	13,695	-	23,924	-	2
Arizona	934	-	26,566	32,824	59,390	-	60,324	1,228	52
California	-	336	42,570	2,127	45,033	-	45,033	5,738	791
Hawaii	-	45	1,382	584	2,011	-	2,011	1,625	4
Nevada	114	10,495	30,673	15,994	57,162	815	58,091	-	12
Oregon	32	232	14,479	14,986	29,698	33	29,763	7,328	591
Washington	95	109	7,495	10,469	18,073	-	18,168	4,910	154

Dashes (-) = No data reported.

Note: 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.

• Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 2000, (DOE/EIA-0340(00)/1).

Table 22. Adjusted Sales for Farm Use: Distillate Fuel Oil and Kerosene; Sales for Electric Utility and Oil Company Uses: Distillate Fuel Oil and Residual Fuel Oil, 2000
(Thousand Gallons)

Destination	Farm				Electric		Oil Company Use	
	Diesel	Other Distillate	Total Distillate	Kerosene	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil
U.S. Total	3,079,664	88,745	3,168,409	23,084	793,162	3,633,075	684,620	179,285
PAD District I Total	388,534	44,002	432,535	7,515	304,717	3,000,908	19,101	85,516
Subdistrict IA Total	12,414	11,650	24,064	1,120	11,295	381,994	268	-
Connecticut	1,788	3,110	4,899	36	1,813	116,886	268	-
Maine	2,709	3,101	5,811	419	249	28,583	-	-
Massachusetts	2,316	501	2,816	27	5,532	200,454	-	-
New Hampshire	935	2,796	3,731	259	1,023	16,392	-	-
Rhode Island	99	-	99	-	1,197	19,679	-	-
Vermont	4,566	2,141	6,708	380	1,481	-	-	-
Subdistrict IB Total	80,750	27,867	108,616	3,053	87,998	733,124	12,623	85,516
Delaware	7,224	62	7,286	27	4,473	23,117	4,237	41,577
District of Columbia	-	-	-	-	12,933	-	-	-
Maryland	22,407	435	22,842	244	16,504	72,549	4	752
New Jersey	7,785	566	8,351	18	7,172	113,069	2,843	2,201
New York	22,092	20,337	42,428	936	3,010	443,546	6	843
Pennsylvania	21,242	6,467	27,709	1,829	43,907	80,843	5,534	40,143
Subdistrict IC Total	295,370	4,485	299,855	3,343	205,423	1,885,790	6,209	-
Florida	98,140	329	98,469	653	102,713	1,778,307	309	-
Georgia	106,561	151	106,712	515	26,921	19,685	302	-
North Carolina	37,329	3,265	40,594	555	33,694	-	155	-
South Carolina	14,820	280	15,100	686	16,240	4,052	100	-
Virginia	35,930	420	36,350	860	14,394	83,746	596	-
West Virginia	2,590	41	2,631	74	11,460	-	4,746	-
PAD District II Total	1,571,971	39,984	1,611,956	12,069	133,971	61,959	41,727	27,377
Illinois	163,237	4,002	167,239	802	9,138	7,887	1,409	744
Indiana	68,750	3,490	72,241	892	17,307	-	2,623	-
Iowa	197,682	10,413	208,096	1,595	4,173	206	-	-
Kansas	141,596	904	142,500	219	8,411	7,866	6,904	-
Kentucky	26,825	2,822	29,647	1,382	6,982	25	745	-
Michigan	65,969	2,829	68,798	269	16,906	43,501	-	5,619
Minnesota	107,331	3,581	110,912	2,651	4,704	2,075	4	7,502
Missouri	64,237	657	64,894	127	9,154	107	10	-
Nebraska	163,763	1,288	165,051	208	2,577	-	-	-
North Dakota	95,283	280	95,563	230	1,931	292	5,608	-
Ohio	67,164	1,748	68,912	1,346	28,211	-	2,249	4,235
Oklahoma	73,642	24	73,666	147	2,109	-	22,143	3,389
South Dakota	62,495	818	63,314	35	2,479	-	25	-
Tennessee	38,821	243	39,064	263	15,983	-	7	-
Wisconsin	235,175	6,884	242,058	1,904	3,904	-	-	5,888
PAD District III Total	548,885	3,219	552,104	1,346	194,786	199,854	560,905	2,275
Alabama	21,789	-	21,789	10	7,823	-	136	2,275
Arkansas	101,874	-	101,874	57	4,027	7,609	1,540	-
Louisiana	78,726	1,913	80,639	447	13,108	24,570	294,331	-
Mississippi	69,950	1,291	71,241	26	2,105	162,758	3,678	-
New Mexico	15,157	15	15,173	344	2,268	-	28,282	-
Texas	261,388	-	261,388	463	165,455	4,915	232,938	-
PAD District IV Total	218,977	1,460	220,437	136	8,492	-	29,245	-
Colorado	59,967	443	60,411	58	4,680	-	6,897	-
Idaho	61,410	560	61,971	30	14	-	-	-
Montana	58,521	378	58,900	19	13	-	2,286	-
Utah	17,224	24	17,249	28	1,362	-	3,242	-
Wyoming	21,854	54	21,907	1	2,423	-	16,820	-
PAD District V Total	351,297	80	351,377	2,018	151,196	370,354	33,643	64,116
Alaska	31	1	31	-	36,124	-	25,912	-
Arizona	16,642	-	16,642	4	7,559	-	71	-
California	254,148	-	254,148	643	7,910	976	6,244	-
Hawaii	7,621	-	7,621	-	90,043	369,378	45	21,682
Nevada	4,544	14	4,557	20	857	-	33	-
Oregon	42,679	50	42,729	671	4,811	-	430	45
Washington	25,632	16	25,647	680	3,893	-	908	42,389

Dashes (-) = No data reported.

Note: 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.

• Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 2000, (DOE/EIA-0340(00)/1).

Table 23. Adjusted Sales for Transportation Use: Distillate Fuel Oil and Residual Fuel Oil, 2000
(Thousand Gallons)

Destination	Railroad Use	Vessel Bunkering		On-Highway Diesel	Total Transportation Use	
	Distillate Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil
U.S. Total	3,070,766	2,080,599	7,485,487	33,129,664	38,281,029	7,485,487
PAD District I Total	499,787	490,150	2,340,865	10,228,244	11,218,181	2,340,865
Subdistrict IA Total	32,368	37,593	64,739	994,438	1,064,399	64,739
Connecticut	10,419	2,765	500	223,858	237,042	500
Maine	2,939	7,170	35,525	165,548	175,657	35,525
Massachusetts	18,057	21,049	28,422	398,877	437,983	28,422
New Hampshire	2	717	-	99,104	99,823	-
Rhode Island	-	5,328	292	54,105	59,433	292
Vermont	950	565	-	52,946	54,461	-
Subdistrict IB Total	169,518	186,750	1,452,022	3,659,966	4,016,234	1,452,022
Delaware	177	32,761	86,506	58,093	91,030	86,506
District of Columbia	3,648	3	-	23,124	26,775	-
Maryland	5,283	26,534	35,985	499,287	531,104	35,985
New Jersey	15,398	91,954	650,432	784,719	892,070	650,432
New York	42,446	14,488	429,130	946,272	1,003,207	429,130
Pennsylvania	102,565	21,011	249,970	1,348,471	1,472,048	249,970
Subdistrict IC Total	297,901	265,807	824,103	5,573,840	6,137,548	824,103
Florida	108,506	125,220	531,375	1,274,869	1,508,594	531,375
Georgia	69,301	23,405	43,812	1,381,691	1,474,397	43,812
North Carolina	60,129	8,726	6,809	1,017,088	1,085,943	6,809
South Carolina	15,387	12,681	19,868	617,908	645,976	19,868
Virginia	34,587	38,475	222,240	992,580	1,065,641	222,240
West Virginia	9,991	57,301	-	289,704	356,996	-
PAD District II Total	1,232,993	301,356	32,780	11,140,616	12,674,965	32,780
Illinois	107,581	47,628	1,014	1,275,542	1,430,751	1,014
Indiana	75,237	43,808	16,078	1,272,013	1,391,058	16,078
Iowa	25,754	5,257	-	496,774	527,785	-
Kansas	53,692	957	-	359,912	414,561	-
Kentucky	102,225	81,012	-	828,750	1,011,987	-
Michigan	44,007	4,947	2,551	911,342	960,296	2,551
Minnesota	62,747	4,285	11,817	656,568	723,600	11,817
Missouri	29,999	62,118	310	917,569	1,009,686	310
Nebraska	70,919	22	-	362,705	433,646	-
North Dakota	38,630	-	-	141,486	180,116	-
Ohio	149,585	3,593	653	1,504,632	1,657,811	653
Oklahoma	332,110	191	-	728,583	1,060,884	-
South Dakota	4,152	-	-	146,170	150,322	-
Tennessee	82,478	44,195	-	889,379	1,016,052	-
Wisconsin	53,877	3,343	358	649,191	706,411	358
PAD District III Total	686,342	1,033,333	2,779,725	5,643,703	7,363,378	2,779,725
Alabama	47,940	85,737	153,985	766,750	900,427	153,985
Arkansas	45,430	125	-	586,466	632,021	-
Louisiana	45,252	559,603	1,447,036	579,895	1,184,750	1,447,036
Mississippi	21,684	33,109	72,759	512,739	567,532	72,759
New Mexico	5,963	-	-	404,044	410,007	-
Texas	520,073	354,760	1,105,945	2,793,809	3,668,642	1,105,945
PAD District IV Total	344,586	173	-	1,474,611	1,819,371	-
Colorado	49,267	-	-	461,178	510,445	-
Idaho	46,797	150	-	215,438	262,384	-
Montana	79,100	-	-	189,707	268,807	-
Utah	33,463	24	-	337,256	370,743	-
Wyoming	135,959	-	-	271,032	406,991	-
PAD District V Total	307,059	255,586	2,332,116	4,642,490	5,205,135	2,332,116
Alaska	3,999	80,320	6,283	90,999	175,319	6,283
Arizona	3,897	22	-	630,293	634,212	-
California	189,444	100,623	1,786,334	2,632,760	2,922,827	1,786,334
Hawaii	-	13,445	118,560	33,506	46,951	118,560
Nevada	7,033	-	-	263,275	270,308	-
Oregon	75,417	9,554	67,536	E429,014	513,985	67,536
Washington	27,268	51,622	353,403	562,643	641,533	353,403

^E Estimated data.

Dashes (-) = No data reported.

Note: 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.

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

• Energy Information Administration's "Petroleum Supply Annual," Volume 1, 2000, (DOE/EIA-0340(00)/1).

Table 24. Adjusted Sales for Military, Off-Highway, and All Other Uses: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 2000
(Thousand Gallons)

Destination	Military				Off-Highway Distillate Fuel Oil			All Other		
	Diesel	Other Distillate	Total Distillate	Residual Fuel Oil	Construction	Other	Total	Distillate Fuel Oil	Residual Fuel Oil	Kerosene
U.S. Total	179,545	53,665	233,210	33,198	1,899,837	430,533	2,330,370	-	8,107	5,921
PAD District I Total	41,440	29,361	70,801	16,430	510,876	159,047	669,923	-	7,997	1,957
Subdistrict IA Total	2,914	5,530	8,444	2,495	48,856	12,397	61,252	-	449	270
Connecticut	310	1,744	2,054	658	13,629	173	13,802	-	306	1
Maine	1,769	2,610	4,379	1,575	6,856	2,938	9,794	-	-	30
Massachusetts	183	8	190	262	17,858	1,924	19,782	-	143	74
New Hampshire	589	1,068	1,657	-	7,396	4,662	12,059	-	-	52
Rhode Island	31	-	31	-	1,539	907	2,447	-	-	35
Vermont	32	101	133	-	1,577	1,792	3,369	-	-	78
Subdistrict IB Total	6,682	16,972	23,653	11,144	180,009	19,627	199,636	-	-	784
Delaware	304	77	381	579	3,653	1,822	5,474	-	-	-
District of Columbia	1,151	3,296	4,446	-	1,333	-	1,333	-	-	-
Maryland	2,164	1,899	4,063	5,911	37,748	345	38,094	-	-	31
New Jersey	66	574	641	719	25,698	9,252	34,950	-	-	29
New York	1,746	2,544	4,289	3,640	41,637	2,416	44,052	-	-	482
Pennsylvania	1,251	8,582	9,833	296	69,941	5,792	75,733	-	-	241
Subdistrict IC Total	31,845	6,859	38,704	2,791	282,011	127,023	409,034	-	7,548	904
Florida	13,098	7	13,105	-	91,012	16,165	107,178	-	7,029	27
Georgia	2,950	-	2,950	-	50,801	41,639	92,440	-	-	1
North Carolina	2,219	728	2,947	-	46,193	15,009	61,201	-	519	584
South Carolina	1,231	365	1,596	-	17,591	33,416	51,008	-	-	79
Virginia	12,194	5,756	17,950	2,791	65,060	14,541	79,601	-	-	197
West Virginia	153	2	155	-	11,354	6,253	17,606	-	-	15
PAD District II Total	15,427	20,673	36,100	3,902	549,299	59,008	608,307	-	53	1,991
Illinois	886	17	903	3,902	85,206	2,216	87,423	-	-	195
Indiana	281	3	285	-	40,672	6,993	47,665	-	-	443
Iowa	182	-	182	-	27,329	1,604	28,933	-	-	71
Kansas	457	-	457	-	19,705	4,091	23,796	-	-	57
Kentucky	957	-	957	-	37,478	4,772	42,250	-	-	128
Michigan	423	-	423	-	59,236	2,217	61,453	-	53	81
Minnesota	534	-	534	-	38,722	6,223	44,945	-	-	106
Missouri	3,016	-	3,016	-	46,411	6,285	52,696	-	-	28
Nebraska	1,051	-	1,051	-	17,666	866	18,532	-	-	53
North Dakota	394	-	394	-	9,403	642	10,044	-	-	21
Ohio	1,129	19,843	20,972	-	54,779	7,277	62,055	-	-	81
Oklahoma	351	-	351	-	35,554	2,203	37,757	-	-	555
South Dakota	16	11	28	-	8,624	1,562	10,186	-	-	11
Tennessee	595	-	595	-	29,451	6,754	36,205	-	-	35
Wisconsin	5,153	799	5,952	-	39,064	5,303	44,366	-	-	125
PAD District III Total	9,239	11	9,250	12,866	394,367	122,622	516,989	-	57	1,273
Alabama	2,504	11	2,515	-	33,328	20,621	53,949	-	-	466
Arkansas	202	-	202	-	27,582	36,641	64,222	-	-	8
Louisiana	2,568	-	2,568	-	59,562	24,460	84,022	-	-	266
Mississippi	2,669	-	2,669	-	18,556	17,820	36,375	-	-	3
New Mexico	325	-	325	-	20,542	2,980	23,522	-	57	48
Texas	971	-	971	12,866	234,797	20,102	254,899	-	-	482
PAD District IV Total	2,230	1,933	4,163	-	150,060	30,035	180,094	-	-	249
Colorado	759	34	793	-	79,400	2,374	81,774	-	-	74
Idaho	446	168	615	-	18,600	11,783	30,383	-	-	1
Montana	59	-	59	-	10,015	11,054	21,069	-	-	2
Utah	890	1,731	2,621	-	24,874	2,571	27,446	-	-	3
Wyoming	75	-	75	-	17,171	2,252	19,423	-	-	169
PAD District V Total	111,209	1,687	112,895	-	295,235	59,822	355,056	-	-	451
Alaska	5,997	47	6,044	-	6,863	6,514	13,377	-	-	-
Arizona	-	-	-	-	38,155	2,615	40,770	-	-	-
California	7,232	-	7,232	-	193,860	22,138	215,998	-	-	170
Hawaii	10,706	-	10,706	-	3,474	41	3,515	-	-	-
Nevada	751	-	751	-	15,160	949	16,109	-	-	5
Oregon	941	5	945	-	14,202	13,398	27,601	-	-	43
Washington	85,582	1,635	87,218	-	23,520	14,167	37,687	-	-	232

Dashes (-) = No data reported.

Note: 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.

• Energy Information Administration's "Petroleum Supply Annual," Volume 1, 2000, (DOE/EIA-0340(00)/1).

Appendix A

Technical Notes

Technical Notes

Note 1: EIA-821: Annual Fuel Oil and Kerosene Sales Report, 2000

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 end users of distillate fuel oil, residual fuel oil, and kerosene. The data are used to determine the level of demand by end-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 end users.

The EIA-863 data base 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 end use, and non-end-use sales; the residual data were identified by end use and non-end-use; motor gasoline was identified by end use and non-end use and by conventional and oxygenated and/or reformulated; and propane was identified by residential, nonresidential, and non-end-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 end-use category sold in a State.
- companies accounting for 5 percent or more of the kerosene volume sold in a State in an earlier EIA-821 survey.
- augmented frame units, e.g., vessel bunkering, for which no attribute data were available.

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

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

Imputation and Estimation

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

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

where:

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

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

The degree of imputation by product and end use at the U.S. total level ranged as follows for the 2000

EIA-821 data: distillate, 2.2 percent for railroad use to 26.2 percent for off-highway use; residual fuel oil, 0.0 percent for military use to 6.3 percent for electric utility use; and kerosene, 3.0 percent for all others uses to 10.5 percent for farm use.

Collection Methods

The EIA-821 form was mailed in January 2001 to all companies selected for participation in the 2000 reference year survey. The completed form was due to EIA on March 5, 2001. 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 precision 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 2000 survey. The coefficients of variation (CV) were estimated by:

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

where:

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

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

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

\hat{V} = total estimated volume,

N_h = stratum population for stratum h,

n_h = number of sample units in stratum h,

V_i = volume for unit i,

W_i = weight for unit i.

Response rates also offer some indication of the reliability and comprehensiveness of survey results. For the 2000 EIA-821 survey, the overall response rate (the number of submissions received, divided by the number of submissions solicited and expected, times 100) was 92.5 percent.

Coefficients of Variation for Sales of Fuel Oil, 2000

Geographic Area	Residential Distillate Fuel Oil	Non-Residential Retail Distillate Fuel Oil	Retail Residual Fuel Oil
U.S. Average	1.8	0.8	0.1
PAD District I Average	2.0	1.1	0.1
Subdistrict IA Average	2.1	1.5	0.1
Connecticut	5.1	3.1	0.1
Maine	4.0	3.1	0.0
Massachusetts	3.4	3.4	0.1
New Hampshire	5.0	2.8	0.0
Rhode Island	5.1	2.9	0.0
Vermont	5.7	2.5	0.0
Subdistrict IB Average	3.4	1.7	0.1
Delaware	1.9	0.9	0.0
District of Columbia	0.0	0.0	0.0
Maryland	4.2	2.4	0.0
New Jersey	3.8	2.6	0.0
New York	6.4	3.4	0.1
Pennsylvania	4.3	3.0	0.0
Subdistrict IC Average	3.7	1.8	0.1
Florida	5.3	3.5	0.0
Georgia	9.9	3.1	0.0
North Carolina	5.4	6.9	0.1
South Carolina	8.6	3.8	0.0
Virginia	5.8	3.8	0.0
West Virginia	6.5	2.7	0.0
PAD District II Average	2.5	1.1	0.1
Illinois	8.2	4.8	0.0
Indiana	7.0	3.2	0.0
Iowa	9.6	3.2	1.1
Kansas	6.7	3.3	0.1
Kentucky	3.9	2.6	0.0
Michigan	5.9	3.4	0.2
Minnesota	6.6	4.1	0.1
Missouri	5.5	4.5	0.0
Nebraska	32.2	3.8	0.0
North Dakota	7.4	4.9	0.0
Ohio	5.3	3.1	0.0
Oklahoma	36.5	3.3	0.0
South Dakota	7.6	3.7	0.0
Tennessee	8.4	2.7	0.0
Wisconsin	7.3	7.2	0.0
PAD District III Average	4.5	2.8	0.1
Alabama	4.3	3.8	0.0
Arkansas	14.8	3.4	0.0
Louisiana	0.0	4.5	0.0
Mississippi	1.0	3.6	0.0
New Mexico	15.2	3.5	0.0
Texas	9.6	5.0	0.1
PAD District IV Average	4.2	1.3	0.0
Colorado	38.3	3.0	0.0
Idaho	4.2	2.7	0.0
Montana	5.2	2.8	0.0
Utah	4.9	1.5	0.0
Wyoming	2.3	3.0	0.0
PAD District V Average	2.7	2.4	0.1
Alaska	5.1	1.9	0.0
Arizona	0.0	1.8	0.0
California	12.3	4.5	0.1
Hawaii	0.0	1.0	0.0
Nevada	5.1	4.4	0.0
Oregon	6.5	4.2	0.0
Washington	3.8	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 2000.

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 end-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 1996 through 2000 special fuels, more than 99 percent is diesel.

Tables 13 through 24:

Electric Utility. National-level distillate and residual fuel oil sales for electric utility use were calculated from annual aggregations of data collected on forms EIA-759, "Monthly Power Plant Report," and FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." Form EIA-759 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 (light oils) and residual (heavy oils) consumption data were added to the stock change of light oils and heavy oils, respectively, from Form EIA-759 to obtain the estimate of sales. 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 1996 through 2000 special fuels, more than 99 percent is diesel.

1996 through 2000 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 2000 survey resulted in 677,128 thousand gallons of kerosene at the national level. The products supplied volume at the national level for kerosene was 1,036,014 thousand gallons. Hence, the adjustment factor at the national level for 2000 was 1.53.

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 2000 are as follows:

Distillate Fuel Oil

- PAD District I: .91
- PAD District II: .94
- PAD District III: 1.03
- PAD District IV: 1.20
- PAD District V: .63

For Tables 13 through 24, total sales at the PAD district level equal the products supplied volumes as reported in the PSA, 1996 through 2000. For example, the 2000 survey yielded a volume for distillate residential use in PAD District II of 666,039 thousand gallons. The total distillate volume for PAD District II was 5,966,811 from the survey, after subtracting the volume coming from alternate sources. The product supplied total distillate volume for PAD District II was 5,629,741 after removing alternate source volume. Hence, the adjusted 2000 estimate of distillate for residential use in PAD District II was $(5,629,741/5,966,811) \times 666,039 = 628,414$.

For distillate fuel oil in Tables 13 through 24, the PAD district adjustments were made to each State and product-use category except on-highway diesel use, and electric utility use.

Volumes of residual fuel oil in Tables 13 through 24 were adjusted at the national level to equal the products supplied estimate. The 2000 survey yielded 13,210,935 thousand gallons of residual fuel oil, while the products supplied volume at the national level was 13,996,134 thousand gallons. Thus, the adjustment factor at the national level for 2000 was 1.17, after subtracting the volumes coming from alternate sources. For residual fuel oil, the adjustments were made to each State and end-use category except electric utility use.

Note 4: End-Use Descriptions and Petroleum Product Definitions

End-Use Descriptions

Residential Use. Includes sales for use in private households for space heating, water heating, cooking, etc. Sales to farm houses are reported under "Farm Use."

Commercial Use. Includes sales for use in non-manufacturing establishments such as motels, apartment buildings, restaurants, retail stores, institutions, government buildings, schools, and laundries for space heating, water heating, and cooking.

Industrial Use. Includes sales to mines, smelters, and plants engaged in producing manufactured products, processing and assembling goods, etc. Also includes space heating. Excludes oil company use, as defined below.

Oil Company Use. Includes sales to 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 the operation of drilling equipment, other field or refinery operations, and space heating at petroleum refineries, pipeline companies, and oil-drilling companies. Oil used to bunker vessels is counted under vessel bunkering. Sales to other oil companies for field use are included, but sales for use as refinery charging stocks are excluded.

Farm Use. Includes sales for use in tractors, irrigation pumps and other agricultural machinery, as well as that used for crop drying, smudge pot fuel, space heating of buildings (including farm houses), cooking, and any other use by the agriculture industry.

Electric Utility Companies. Includes sales to electric utility companies, including that used for the generation of electricity. Volumes imported and used directly by electric utility companies are also included.

Railroad Use. Includes sales to railroads, for any use, including that used for heating buildings operated by railroads.

Vessel Bunkering. Includes sales for the fueling of commercial or private boats, such as pleasure craft, fishing boats, tugboats, and ocean-going vessels, including vessels operated by oil companies. Excluded are volumes sold to the U.S. Armed Forces.

On-Highway Diesel Use. Includes sales for use in motor vehicles. Volumes used by companies in the marketing and distribution of petroleum products are also included.

Military Use. Includes sales to the Armed Forces, including volumes sold to the Defense Fuel Supply Center (DFSC) for use by all branches of the Department of Defense (DOD).

Off-Highway Use. Includes sales for use in:

1. **Construction.** Construction equipment including earthmoving equipment, cranes, stationary generators, air compressors, etc.
2. **Other.** Sales for off-highway uses other than construction. Sales for logging are included in this category. Volumes for off-highway use by the agriculture industry are reported under "Farm Use."

All Other Uses. Sales for all other uses not included in any other end-use category are reported here.

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 is used primarily for space heating, on- and off-highway diesel engine fuel (including railroad engine fuel and fuel for agricultural machinery), and electric power generation. Included are products known as No. 1, No. 2, and No. 4 fuel oils and No. 1, No. 2, and No. 4 diesel fuels.

1. **No. 1 Distillate.** A petroleum distillate which meets the specifications for No. 1 heating or fuel oil as defined in ASTM D 396 and/or the specifications for No. 1 diesel fuel as defined in ASTM Specification D 975.
 - a. **No. 1 Diesel Fuel.** A volatile distillate fuel oil with a boiling range between 300 and 575 degrees Fahrenheit and used in high-speed diesel engines generally operated under wide variations in speed and load. Includes type C-B diesel fuel used for city buses and similar operations. Properties are defined in ASTM Specification D 975.
 - b. **No. 1 Fuel Oil.** A light distillate fuel oil intended for use in vaporizing pot-type burn-

ers. ASTM Specification D 396 specifies for this grade maximum distillation temperatures of 400 degrees Fahrenheit at the 10-percent point and 550 degrees Fahrenheit at the 90-percent point, and kinematic viscosities between 1.4 and 2.2 centistokes at 100 degrees Fahrenheit.

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

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

(1) **No. 2 Diesel \leq .05% Sulfur.** The sulfur level does not exceed 0.05 percent by weight.

(2) **No. 2 Diesel $>$.05% Sulfur.** The sulfur level is above 0.05 percent by weight.

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

3. **No. 4 Fuel.** A fuel oil for commercial burner installations not equipped for preheating facilities. It is used extensively in industrial plants. This grade is a blend of distillate fuel oil and residual fuel oil stocks that conforms to ASTM Specification D 396 or Federal Specification VV-F-815C; its kinematic viscosity is between 5.8 and 26.4 centistokes at 100 degrees Fahrenheit. Also included is No. 4-D, a fuel oil for low and medium-speed diesel engines that 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 petroleum distillate that boils at a temperature between 300 and 550 degrees Fahrenheit, that has a flash point higher than 100 degrees Fahrenheit by ASTM Method D 56, that has a gravity range from 40 to 46 degrees API, and that has a burning point in the range of 150 degrees to 175 degrees Fahrenheit. Included are the two classifications recognized by ASTM Specification D 3699: No. 1-K and No. 2-K, and all grades of kerosene called range or stove oil which have properties similar to No. 1 fuel oil, but with a gravity of about 43 degrees API and a maximum end-point of 625 degrees Fahrenheit. Kerosene is used in space heaters, cook stoves, and water heaters and is suitable for use as an illuminant when burned in wick lamps.

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. The topped crude of refinery operations, which includes No. 5 and No. 6 fuel oils, as defined in ASTM Specification D 396 and Federal Specification, VV-F-815C; Navy Special fuel oil as defined in Military Specification MIL-F-859E including Amendment 2 (NATO symbol F-77); and Bunker

C fuel oil. Residual fuel oil is used for the production of electric power, space heating, vessel bunkering, and various industrial purposes.

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

Appendix B

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

Name of Firm Reporting		DOE ID Number	Reference Year 2000	Page _____ of _____
PART II. TOTAL SALES DURING THE REFERENCE YEAR. (READ PAGES 2-5 OF INSTRUCTIONS CAREFULLY)				
Line No.	Type of Fuel and Use	States of Destination (Enter STANDARD ABBREVIATIONS)		
	Sold directly to consumers for	Kerosene (Report in Actual Gallons)		
1	Residential Use (Non-Farm):			
2	Commercial Use:			
3	Industrial Use:			
4	Farm Use:			
5	All Other Uses (Include own company use):			
6	Sold to Dealers, Resellers, and Refiners:			
7	Total Kerosene (Add Lines 1 thru 6)			
	Sold directly to consumers for	Distillate Fuel Oil (Report in Actual Gallons)		
	Residential Use (Non-Farm):			
8	No. 1			
9	No. 2			
	Commercial Use (See Reference Guide):			
10	No. 1			
11	No. 2 Fuel Oil			
12	No. 2 Diesel ≤ .05% Sulfur, Low			
13	No. 2 Diesel > .05% Sulfur, High			
14	No. 4			
	Industrial Use (Manufacturing and Mining):			
15	No. 1			
16	No. 2 Fuel Oil			
17	No. 2 Diesel ≤ .05% Sulfur, Low			
18	No. 2 Diesel > .05% Sulfur, High			
19	No. 4			
20	Oil Company Use (Drilling and Own Company Refining):			
21	Railroad Use:			
22	Vessel Bunkering (Shipping and Boating):			

Name of Firm Reporting	DOE ID Number	Reference Year 2000	Page _____ of _____
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PART II. TOTAL SALES DURING THE REFERENCE YEAR. (READ PAGES 2-5 OF INSTRUCTIONS CAREFULLY)

Line No.	Type of Fuel and Use	States of Destination (Enter STANDARD ABBREVIATION)		

Distillate Fuel Oil--Continued (Report in Actual Gallons)

	Military Use:			
23	Diesel			
24	Other Distillate			
25	Electric Utility Use:			
	Farm Use:			
26	Diesel			
27	Other Distillate			
28	On-highway Diesel Use:			
	Off-highway Use:			
29	Construction			
30	Other (Specify e.g., Logging) _____			
31	All Other Uses (Specify): _____			
32	Sold to Dealers, Resellers, and Refiners:			
33	Total Distillate (Add Lines 8 thru 32)			

Residual Fuel Oil - Include No.5 and No. 6 (Report in Actual Gallons)

	Sold directly to consumers for			
34	Commercial Use (Nonmanufacturing):			
35	Industrial Use (Manufacturing and Mining):			
36	Oil Company Use (Drilling and Own Company Refining):			
37	Railroad Use (Include Volumes on line 41):			
38	Vessel Bunkering:			
39	Military Use:			
40	Electric Utility Use:			
41	All Other Uses (Specify): _____			
42	Sold to Dealers, Resellers, and Refiners:			
43	Total Residual (Add Lines 34 thru 42)			

EIA-821 (12-00)

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**