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# **Fuel Oil and Kerosene Sales 1998**

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**Energy Information Administration**  
Office of Oil and Gas  
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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 1998* report. Included are annual sales data on petroleum volumes of kerosene, distillate fuel oils, and residual fuel oils by State. Annual historical data at the national level are provided in summary tables.

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

#### **Internet Addresses:**

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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 1998* 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 1998*.

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 1998

Benefiting from continued robust economic growth, demand for distillate fuel increased in 1998 for the seventh consecutive year. Distillate sales increased 1.7 percent despite the fact that the winter was both warmer than normal and warmer than the previous year. Bolstered by strong sales of bunker fuel and surging sales to electric utilities, overall sales of residual fuel oil increased by 17.8 percent. However, aside from the upturn in bunker fuel and sales to utilities, sales of residual fuel oil declined across the board. This decline in demand for residual fuel oil points to the continuation of the downward trend in sales that has, with the exception of 1996, come to characterize the residual fuel oil market for the past several years.

Distillate sales remained predominate in the fuel oil market, accounting for 77.6 percent of total sales. However, as the result of the dramatic increases, residual fuel oil accounted for 20.7 percent of the total sales, the first time since 1994 that residual fuel oil sales exceeded 20 percent of total sales. The remaining 1.7 percent consisted of sales of kerosene.

## Distillate Fuel Oil

Led by sales to the transportation sector, distillate sales continued to increase in 1998. Totaling 55.3 billion gallons, sales in 1998 reached an all-time high. Nonetheless, principally as the result of the milder than normal winter, the rate of growth in sales of distillates slowed somewhat to 1.7 percent (approximately 940 million gallons). This rate of increase equaled nearly two-thirds of the increase attained the previous year (2.7 percent or 1.5 billion gallons).

The transportation sector continued to dominate distillate fuel oil sales accounting for nearly two-thirds (65.0 percent) of total sales. In addition, the increase in sales of on-highway diesel accounted for more than 75 percent of the increases among those sectors where distillate sales went up. In large measure, the growth reflected continued overall economic strength of the country. Economic growth as measured by the change in gross domestic product (GDP) continued to increase

**Table HL1. Volume Distribution of Distillate and Residual Fuel Oils, 1997 and 1998**

End Use	Distillate 1998		Distillate 1997		Residual 1998		Residual 1997	
	Volume (million gallons)	Percent Share						
Residential .....	5,820	10.5	6,531	12.0	—	—	—	—
Commercial .....	3,233	5.8	3,315	6.1	715	4.9	790	6.3
Industrial .....	2,462	4.5	2,309	4.3	1,798	12.2	1,899	15.2
Oil Company .....	784	1.4	852	1.6	127	0.9	160	1.3
Farm .....	3,411	6.2	3,548	6.5	—	—	—	—
Electric .....	841	1.5	636	1.2	6,432	43.7	4,599	36.8
Railroad .....	3,180	5.8	3,278	6.0	—	—	—	—
Vessel Bunkering .....	2,595	4.7	2,574	4.7	5,620	38.1	5,010	40.1
On-Highway .....	30,150	54.5	28,614	52.6	—	—	—	—
Military .....	352	0.6	433	0.8	34	0.2	42	0.3
Off-Highway .....	2,477	4.5	2,276	4.2	—	—	—	—
Other .....	0	0.0	0	0.0	4	0.0	4	0.0
<b>Total .....</b>	<b>55,305</b>	<b>100.0</b>	<b>54,366</b>	<b>100.0</b>	<b>14,730</b>	<b>100.0</b>	<b>12,504</b>	<b>100.0</b>

Sources: Energy Information Administration, Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," 1997 and 1998.

at a rate essentially unchanged from the previous year (3.88 percent in 1998 versus 3.93 percent in 1997).<sup>1</sup> Sustained economic strength contributed in particular to increased sales of on-highway distillate needed to meet the increase in demand to deliver goods to markets and consumers.<sup>2</sup>

Distillate sales benefited from lower prices reflecting both falling crude oil prices and high levels of stocks. In particular, on-road use increased by more than 1.5 billion gallons compared to 1997. Distillate sales to the electric power sector also increased by more than 200 million gallons, benefiting from lower prices, the warmer than normal summer, and the need to meet air quality standards.

Undercutting much of the gains in the transportation and utility sectors, milder than normal winter conditions, coupled with a warmer than normal summer reduced distillate demand in the residential, commercial, and agricultural sectors for the second year in a row. The weather related drop in residential demand was particularly acute, sales fell by more than 700 million gallons or 10.9 percent compared to 1997.

Although sales to the transportation sector increased in the aggregate, sales to railroads declined for the third year in a row. In part, the drop of 3.0 percent resulted from a year of slow growth for railroads. The decline also reflects improved conditions and resulting gains in efficiencies compared to 1997 when significant disruptions occurred in scheduling and deliveries.<sup>3</sup>

While distillate sales benefited from the lower prices throughout the oil sector, milder winter conditions in the U.S. and much of the Northern Hemisphere, coupled with lower demand in Asia resulting from the economic downturn there, resulted in high stock levels. In the U.S., throughout 1998 distillate stocks, already high at the beginning of the year, remained significantly above levels attained in 1997. In part, stock lev-

els remained high as a consequence of the upsurge in gasoline demand. Increased gasoline demand of 2.3 percent in 1998 compared to 1997 contributed to the increased production of distillate despite lack of demand in some major market segments.<sup>4</sup>

Oil company direct use of distillate fuel oil decreased sharply as companies curtailed drilling and other activities. In 1998, driven by falling crude oil and natural gas prices the number of rotary rigs in operation dropped steadily. As oil prices fell, rig counts plunged, falling by 35 percent between January and December. In comparison to 1997, the yearly average rig count fell by 12.3 percent.<sup>5</sup> Other than in PAD District V<sup>6</sup>, the West Coast, direct oil company use decreased throughout the U.S.

The largest drop in distillate sales occurred in the residential sector. The winter in 1998 was warmer, than in 1997, and also considerably warmer than normal.<sup>7</sup> Although the sales fell in all regions of the U.S., the drop was most pronounced in PAD District I (the East Coast) and in parts of PAD District II (the Middle West) where the market for home heating oil is concentrated. Distillate sales to the residential market fell sharply in both the northeast and Middle Atlantic States of PAD District I. Sales fell by 10.0 percent in PAD District I as a whole, and by 17.0 percent in PAD District II.

Sales to the commercial sector declined slightly in most areas of the country. Reflecting the impact of the warmer than normal winter, the drop in commercial sales was most pronounced in PAD District I and was particularly severe in the middle Atlantic states where sales fell by 11.3 percent. Nationally, the drop in commercial sales of distillate was 2.5 percent.

Overall sales of distillate to the industrial sector increased by 6.6 percent, reflecting the strength of the economy in general and in particular, a 7.1 percent in-

<sup>1</sup>US Department of Commerce, Bureau of Economic Analysis.

<sup>2</sup>Total vehicle miles traveled increased by 2.3 percent in 1998. Source, Federal Highway Administration, *Highway Statistics 1997, and Traffic Volume Trends*, April 1999.

<sup>3</sup>Prolonged congestion on one major carrier resulted in delivery problems that not only contributed to a decline in distillate sales, but also had a negative impact on demand for coal while boosting demand for residual fuel oil and natural gas to compensate for the loss of coal to supply electric power plants.

<sup>4</sup>Refinery production of distillate increased in part as a function of the increased demand for gasoline production. Energy Information Administration, *Monthly Energy Review (MER)*, June 1999, Table 3.4, p. 57 and Table 3.5, p. 59.

<sup>5</sup>US Average Rig Counts by State, Baker Hughes (Hughes Christensen), 1997, 1998.

<sup>6</sup>The US is divided into 5 Petroleum Administration for Defense Districts (PAD Districts), (1) District I, East Coast, (2) District II, Midwest, (3) District III, Gulf Coast, (4) District IV, Rocky Mountains, and (5) District V, Pacific Coast. PAD District I is broken into three subdivisions: Subdistrict A, New England, Subdistrict B, Middle Atlantic, and Subdistrict C, Southeast.

<sup>7</sup>The winter season of 1997 - 1998 as a whole, measured 13.4 percent warmer than the previous year and 12.8 percent warmer than normal. Energy Information Administration, *Short-Term Energy Outlook, Second Quarter 1999*, p. 76.

crease in output of durable goods.<sup>8</sup> On a regional basis, sales of distillate for industrial purposes increased in parts of PAD District I and in PAD Districts II and IV but declined slightly in the Middle Atlantic section of PAD District I, in PAD District III and somewhat more in PAD District V (the West Coast). Distillate sales to the military continued to decline, falling 80.4 million gallons or 18.6 percent.

Although neither the amount of acres planted nor the size of the harvests indicated a drop in agricultural demand for distillate, sales dropped nonetheless by 3.9 percent. Sales were down throughout much of the principal crop raising regions. Weather was the major factor, as the warm winter reduced heating demand and the warmer than normal summer reduced crop drying needs significantly in many parts of the country, particularly in the Mississippi River Valley. Warm and dry conditions through much of the summer, particularly at harvest time, enabled farmers to cut expenses by reducing the need for crop drying. This resulted in reduced demand for propane, the principal fuel used for crop drying such crops as corn and tobacco.

Supported by the warm summer and the lowest prices in several years, distillate sales to the electric utility sector surged, increasing by nearly 205 million gallons or 32 percent. Although low prices contributed to the fuel switching, the need to control plant emissions played the more crucial role. During the peak summer season, many utilities minimized operations of coal fired plants (in particular, the older less efficient plants) by turning to other sources of generation. Utilities sought to avoid penalties for exceeding allowable emission levels of Nitrogen Oxides (NOX) and Sulfur Oxides (SOX). Although utilities can trade credits, with prices approaching \$5,000 per ton for NOX credits, utilities sought other methods, including running jet turbine peaking units to avoid penalties or entering the market to purchase credits. Consequently, demand by utilities for both oil and gas increased sharply over the levels set in 1997.

## Residual Fuel Oil

The downward trend in residual fuel oil sales of the past several years was broken by an upsurge in sales of 17.8 percent. Driven by the shift away from coal on the part of utilities and by robust gains in the bunker marine markets, sales increased by approximately two and one quarter billion gallons.

Increased sales to the utility segment were particularly strong in the Middle Atlantic and Southeastern states of PAD District I as well as in the Gulf Coast

states of PAD District III. Although sales increased in New England, the increase was not large because the surge in demand there occurred in 1997 largely as the result of the unavailability of several large nuclear plants. Demand in New England in 1997 increased approximately 475 million gallons. In 1998, there was a further increase of 3.3 percent or 46 million gallons.

The jump in sales of residual fuel oil driven by utility demand should not be viewed as a reversal of the long-term decline in sales that resulted in a drop in sales of approximately 40 percent between 1987 and 1996. Although sales to the utility market are likely to be robust in the short-term, as new power plants come on line, most will be gas fired and sales of residual will diminish once again.

Aside from sales to the bunker and utility segments of the market, sales of residual fuel in most areas of the country and to most market segments continued to decline in 1998 as they typically have done in recent years.

Sales of residual fuel oil to the commercial, industrial, military, and oil company sectors all declined in 1998. The drop in commercial sales of residual fuel oil was particularly sharp along the Atlantic coast in PAD District I where sales fell more than 20 percent. On a regional basis, aside from the New England portion of PAD District I and the Rocky Mountain states of PAD District IV, industrial sales fell. Sales of residual fuel oil for direct use by oil companies were more mixed on a regional basis. Sales increased somewhat in PAD Districts I and III but fell in PAD Districts II, IV, and V.

Bunker sales increased 12.2 percent overall with the largest increases in the Middle Atlantic region of PAD District I and in the Gulf Coast (PAD District III). The downturn in the economies of several Asian nations that began in 1997 continued to influence West Coast bunker sales during 1998. The negative impact of the Asian situation on bunker markets that began late in 1997 continued through out 1998. However, unlike 1997 when demand in PAD District V plunged by more than 28 percent, West Coast bunker sales slipped by only an additional 4 percent in 1998. Other developments arising from the economic problems in Asia, helped to mitigate the negative impact on PAD District V bunker markets. By August, sharply lower demand in Asia for oil products in general led to cutbacks in refinery production. Consequently, a shortfall of bunker fuel developed in Asia that gave an advantage to the West Coast markets and boosted bunker sales in PAD District V.

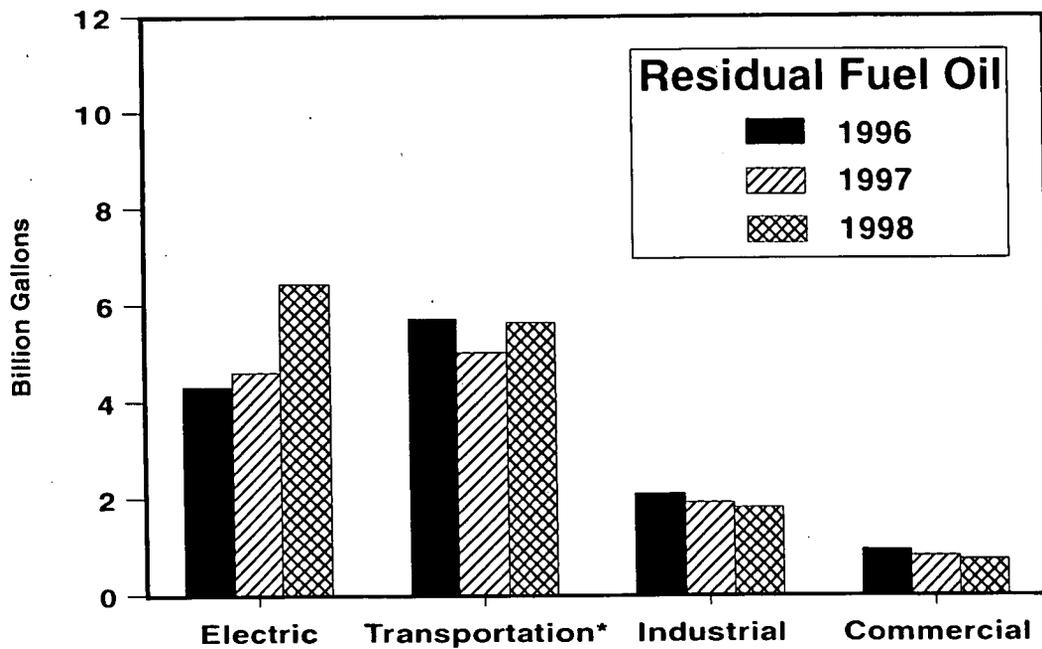
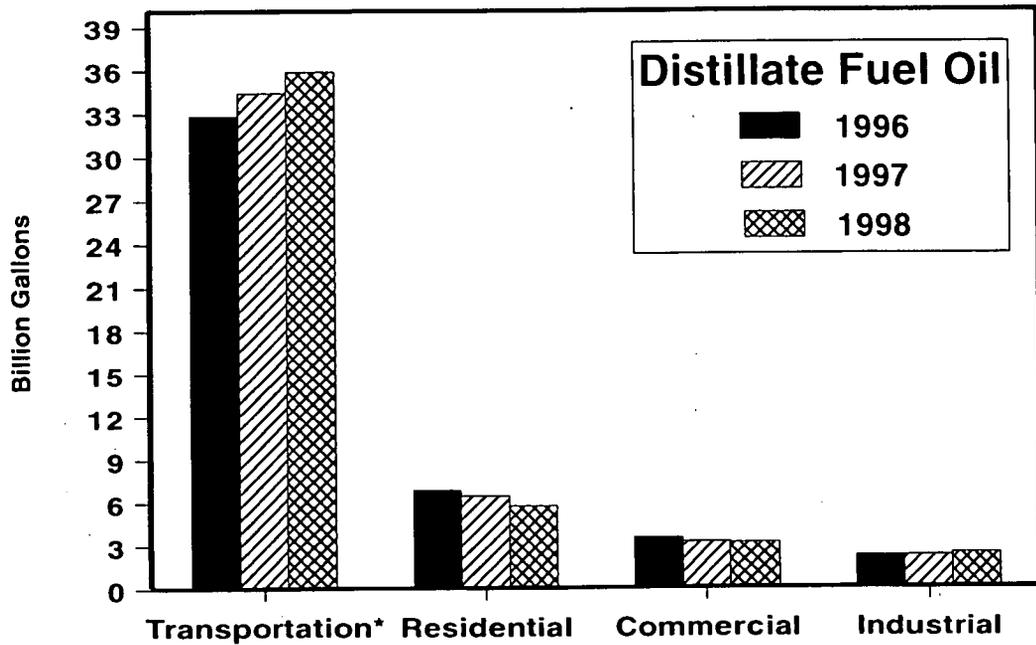
<sup>8</sup>*Economic Indicators*, April 1999, Washington D.C. US Government Printing Office, p.17.

## **Kerosene**

Sales of kerosene increased sharply to reach nearly 1.2 billion gallons, the highest level of the decade. Sales of kerosene to all sectors increased. Sales to residential consumers continued to dominate the kerosene

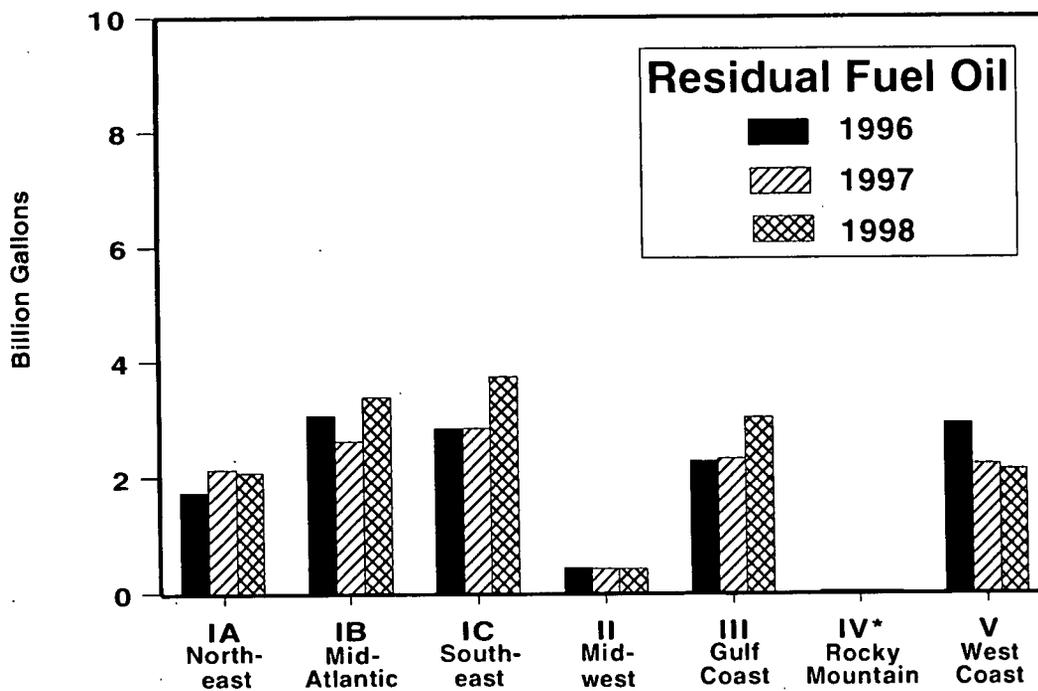
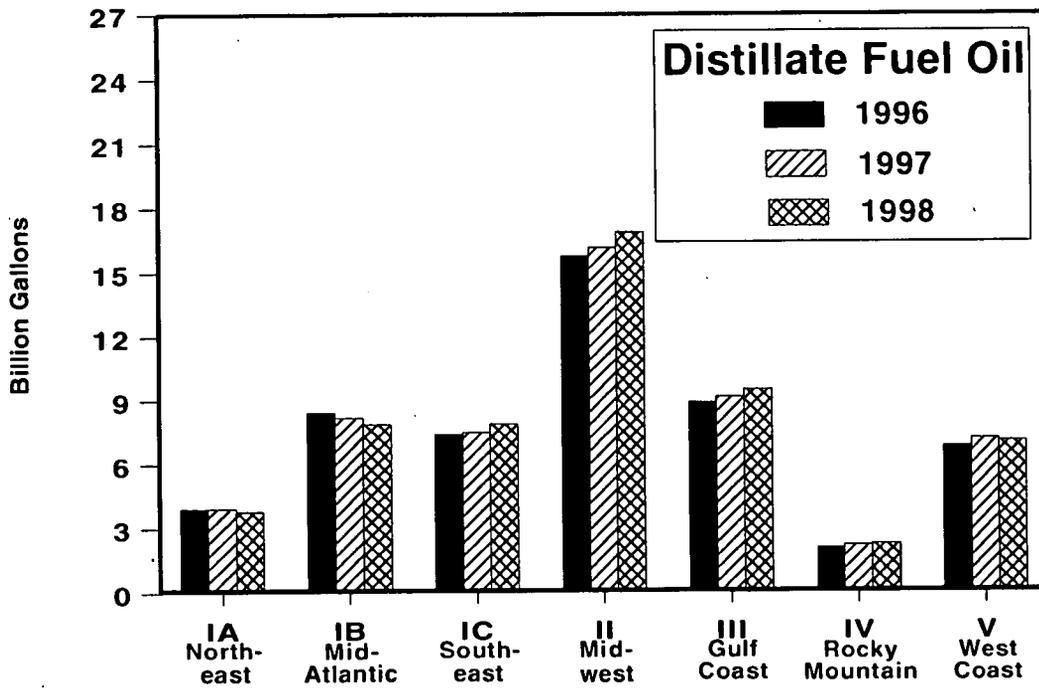
market accounting for more than two thirds of total kerosene sales. Kerosene sales to the commercial sector increased by 26.4 percent and sales to the industrial sector increased by 11.3 percent.

Figure HL1. U.S. Sales of Distillate and Residual Fuel Oils by End Use, 1996-1998



\*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," 1997 and 1998.

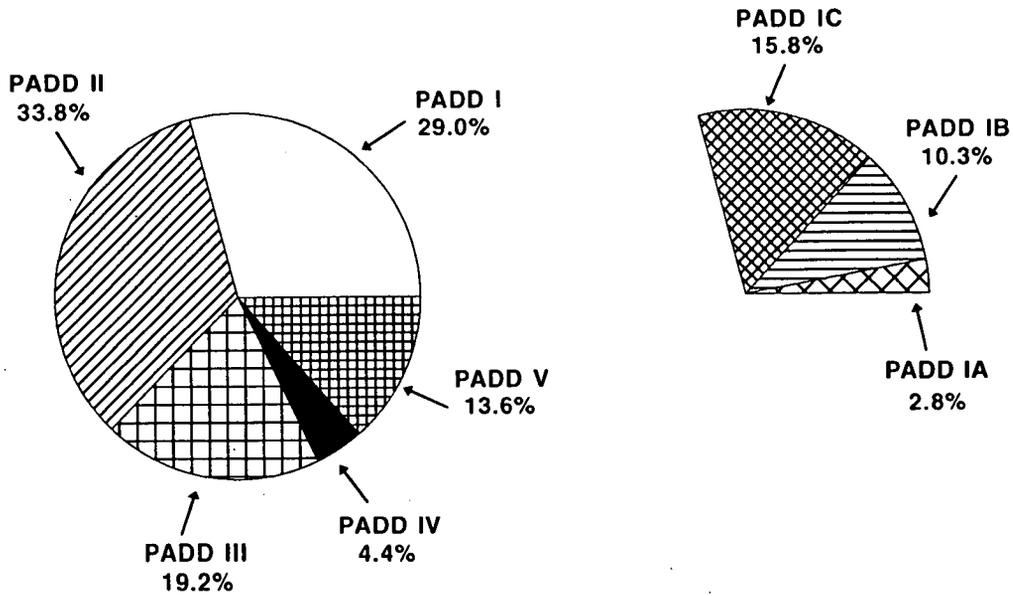
Figure HL2. Volume Distribution of Distillate and Residual Fuel Oils by PAD District, 1996-1998



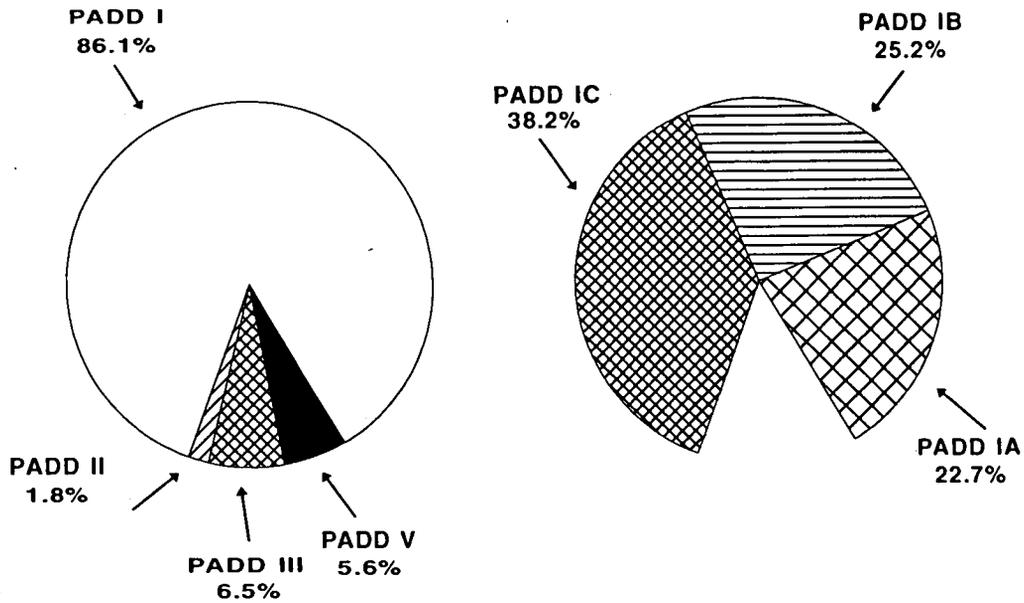
\*Residual fuel oil sales in PAD District IV are too small to appear in this graph.  
 Sources: Energy Information Administration, Form EIA-821, "Fuel Oil and Kerosene Sales Report," 1997 and 1998.

Figure HL3. Distillate and Residual Fuel Oil Sales for Selected End-Use Categories by PAD District, 1998

### Distillate: Transportation



### Residual: Electric Utility



Sources: Energy Information Administration, Form EIA-821, "Fuel Oil and Kerosene Sales Report," 1998.

**Table 1. Sales of Distillate Fuel Oil by End Use in the United States: 1994-1998**  
(Thousand Gallons)

End Use	Distillate Fuel Oil				
	1994	1995	1996	1997	1998
U.S. Total .....	50,423,596	51,469,264	53,379,033	54,366,495	55,305,694
Residential .....	7,232,733	6,859,786	6,910,018	6,531,416	5,819,959
Commercial .....	3,774,929	3,630,856	3,603,620	3,314,956	3,233,350
Industrial .....	2,269,007	2,238,873	2,288,689	2,309,615	2,462,355
Oil Company .....	675,228	686,750	730,676	852,015	783,719
Farm .....	3,270,227	3,476,472	3,591,383	3,547,699	3,410,801
Electric Utility .....	663,814	597,461	657,881	636,002	840,731
Railroad .....	3,141,324	3,428,829	3,446,939	3,277,802	3,180,124
Vessel Bunkering .....	2,189,346	2,339,010	2,490,793	2,573,800	2,595,076
On-Highway Diesel .....	24,442,609	25,576,433	26,958,668	28,614,022	30,150,191
Military .....	610,474	461,740	454,443	432,621	352,189
Off-Highway Diesel .....	2,153,153	2,173,054	2,245,922	2,276,548	2,477,199
All Other .....	752	-	-	-	-

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 1994-1998.

• 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: 1994-1998**  
(Thousand Gallons)

End Use	Residual Fuel Oil				
	1994	1995	1996	1997	1998
<b>U.S. Total</b> .....	<b>14,825,378</b>	<b>12,318,128</b>	<b>13,256,998</b>	<b>12,504,135</b>	<b>14,729,841</b>
Commercial .....	1,061,450	922,572	927,834	789,674	715,111
Industrial .....	2,337,188	1,977,567	2,089,436	1,898,611	1,797,906
Oil Company .....	242,754	211,450	167,425	160,477	127,464
Electric Utility .....	5,729,485	3,262,492	4,304,492	4,599,084	6,431,746
Vessel Bunkering .....	5,386,407	5,886,409	5,701,233	5,010,059	5,620,417
Military .....	61,946	50,902	56,225	42,164	33,648
All Other .....	6,111	6,735	10,354	4,065	3,549

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 1994-1998.

**Table 3. Sales of Kerosene by End Use in the United States: 1994-1998**  
(Thousand Gallons)

End Use	Kerosene				
	1994	1995	1996	1997	1998
<b>U.S. Total</b> .....	<b>750,330</b>	<b>828,450</b>	<b>948,990</b>	<b>1,009,932</b>	<b>1,196,580</b>
Residential .....	480,916	550,336	657,636	688,025	802,348
Commercial .....	144,142	163,716	155,792	182,559	230,743
Industrial .....	86,629	86,902	102,322	110,738	123,246
Farm .....	27,686	19,919	26,017	21,556	26,823
All Other .....	10,957	7,576	7,223	7,054	13,420

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, 1994-1998, (DOE/EIA-0340(94)/1 - (98)/1).

**Table 4. Sales of Distillate Fuel Oil by End Use, 1997 and 1998**

(Thousand Gallons)

Destination	Residential		Commercial		Industrial	
	1997	1998	1997	1998	1997	1998
<b>U.S. Total</b> .....	<b>6,531,416</b>	<b>5,819,959</b>	<b>3,314,956</b>	<b>3,233,350</b>	<b>2,309,615</b>	<b>2,462,355</b>
<b>PAD District I Total</b> .....	<b>5,452,394</b>	<b>4,908,899</b>	<b>2,158,376</b>	<b>2,019,149</b>	<b>728,262</b>	<b>778,225</b>
<b>Subdistrict IA Total</b> .....	<b>2,142,358</b>	<b>1,984,396</b>	<b>603,904</b>	<b>596,243</b>	<b>101,435</b>	<b>98,815</b>
Connecticut .....	563,409	485,725	127,696	115,527	25,878	22,994
Maine .....	322,282	331,700	102,281	120,703	28,813	32,549
Massachusetts .....	797,588	745,709	247,024	237,347	21,874	21,246
New Hampshire .....	201,679	189,684	57,654	54,240	6,143	7,002
Rhode Island .....	156,946	143,395	32,287	27,225	11,403	7,904
Vermont .....	100,454	88,183	36,962	41,201	7,325	7,119
<b>Subdistrict IB Total</b> .....	<b>2,874,833</b>	<b>2,518,766</b>	<b>1,125,748</b>	<b>998,535</b>	<b>207,291</b>	<b>258,142</b>
Delaware .....	39,382	35,335	14,726	12,718	8,334	4,750
District of Columbia .....	11,230	10,330	22,010	13,976	285	300
Maryland .....	218,224	189,461	107,936	112,219	25,850	69,000
New Jersey .....	494,276	400,858	148,189	134,447	39,599	41,642
New York .....	1,277,703	1,169,877	623,764	523,270	42,573	42,889
Pennsylvania .....	834,019	712,905	209,123	201,905	90,650	99,561
<b>Subdistrict IC Total</b> .....	<b>435,203</b>	<b>405,737</b>	<b>428,725</b>	<b>424,371</b>	<b>419,536</b>	<b>421,269</b>
Florida .....	6,321	4,782	77,682	61,163	45,623	54,779
Georgia .....	3,437	4,106	37,797	31,440	42,144	46,422
North Carolina .....	149,067	131,451	124,485	113,495	81,906	84,236
South Carolina .....	23,267	20,877	45,646	65,974	21,057	23,907
Virginia .....	226,854	220,498	129,373	136,032	116,363	91,020
West Virginia .....	26,256	24,023	13,740	16,267	112,442	120,906
<b>PAD District II Total</b> .....	<b>794,206</b>	<b>659,306</b>	<b>597,077</b>	<b>595,586</b>	<b>691,230</b>	<b>823,485</b>
Illinois .....	30,808	18,347	95,938	81,773	82,293	123,124
Indiana .....	55,000	46,309	47,620	62,472	75,290	110,181
Iowa .....	31,526	24,158	13,930	20,334	16,142	33,351
Kansas .....	1,537	501	20,586	19,368	12,145	15,890
Kentucky .....	28,616	25,688	40,640	46,496	170,041	163,665
Michigan .....	159,320	116,529	83,385	66,135	43,633	54,239
Minnesota .....	127,576	111,632	38,002	37,007	41,892	54,426
Missouri .....	13,527	12,910	50,856	50,946	34,298	45,288
Nebraska .....	3,918	2,838	7,178	9,736	4,396	21,961
North Dakota .....	26,188	23,351	11,193	11,818	8,642	8,502
Ohio .....	144,676	127,050	61,008	49,362	77,365	73,174
Oklahoma .....	154	54	24,640	27,186	8,345	9,384
South Dakota .....	20,134	16,791	11,437	10,416	4,221	3,226
Tennessee .....	10,293	10,112	35,971	41,688	47,753	42,897
Wisconsin .....	140,932	123,036	54,693	60,850	64,776	64,176
<b>PAD District III Total</b> .....	<b>1,916</b>	<b>472</b>	<b>175,257</b>	<b>210,972</b>	<b>315,184</b>	<b>310,483</b>
Alabama .....	1,741	262	23,377	24,904	58,852	71,846
Arkansas .....	31	22	11,762	15,728	23,170	16,542
Louisiana .....	4	44	13,538	13,291	19,424	12,928
Mississippi .....	16	46	14,354	16,054	39,861	21,850
New Mexico .....	116	87	7,347	6,071	42,251	37,602
Texas .....	8	11	104,880	134,923	131,627	149,715
<b>PAD District IV Total</b> .....	<b>56,712</b>	<b>39,114</b>	<b>88,332</b>	<b>90,697</b>	<b>156,338</b>	<b>174,495</b>
Colorado .....	2,243	816	38,813	38,098	19,369	21,560
Idaho .....	18,906	16,356	15,275	18,097	25,330	26,149
Montana .....	29,797	17,750	7,038	5,005	21,552	15,079
Utah .....	3,817	3,080	17,656	23,012	22,665	32,180
Wyoming .....	1,950	1,112	9,550	6,485	67,421	79,526
<b>PAD District V Total</b> .....	<b>226,188</b>	<b>212,167</b>	<b>295,914</b>	<b>316,946</b>	<b>418,602</b>	<b>375,668</b>
Alaska .....	80,444	73,419	41,206	46,906	33,328	32,976
Arizona .....	315	196	28,484	49,260	117,481	95,658
California .....	6,914	7,415	108,215	116,706	61,801	68,183
Hawaii .....	20	14	17,062	9,247	2,707	1,990
Nevada .....	11,319	11,971	12,261	13,550	148,472	123,545
Oregon .....	46,628	41,983	41,385	43,671	38,751	37,392
Washington .....	80,548	77,169	47,301	37,606	16,062	15,925

See footnotes at end of table.

**Table 4. Sales of Distillate Fuel Oil by End Use, 1997 and 1998 (Continued)**

(Thousand Gallons)

Destination	Oil Company		Farm		Electric Utility	
	1997	1998	1997	1998	1997	1998
<b>U.S. Total</b> .....	<b>852,015</b>	<b>783,719</b>	<b>3,547,699</b>	<b>3,410,801</b>	<b>636,002</b>	<b>840,731</b>
<b>PAD District I Total</b> .....	<b>8,056</b>	<b>7,251</b>	<b>390,596</b>	<b>395,997</b>	<b>238,989</b>	<b>386,452</b>
<b>Subdistrict IA Total</b> .....	<b>380</b>	<b>100</b>	<b>17,709</b>	<b>18,956</b>	<b>15,277</b>	<b>13,508</b>
Connecticut .....	119	14	3,093	3,391	2,429	4,451
Maine .....	-	-	4,222	4,775	1,556	1,332
Massachusetts .....	257	80	3,545	2,914	7,512	4,388
New Hampshire .....	-	-	1,278	1,200	2,690	1,677
Rhode Island .....	1	-	111	56	890	1,226
Vermont .....	3	7	5,460	6,620	201	435
<b>Subdistrict IB Total</b> .....	<b>3,699</b>	<b>3,079</b>	<b>105,328</b>	<b>103,046</b>	<b>88,133</b>	<b>104,790</b>
Delaware .....	1,668	1,050	5,383	7,177	3,105	3,023
District of Columbia .....	-	-	-	-	12,785	18,818
Maryland .....	45	31	25,225	23,895	26,835	20,680
New Jersey .....	463	296	6,234	4,894	7,168	7,632
New York .....	741	768	35,833	39,621	9,306	3,309
Pennsylvania .....	782	934	32,652	27,458	28,933	51,329
<b>Subdistrict IC Total</b> .....	<b>3,978</b>	<b>4,072</b>	<b>267,558</b>	<b>273,995</b>	<b>135,579</b>	<b>268,153</b>
Florida .....	570	315	81,522	73,030	64,641	151,241
Georgia .....	766	324	89,129	110,881	11,686	40,377
North Carolina .....	192	136	33,421	35,250	15,943	27,539
South Carolina .....	1	5	20,984	17,251	21,796	27,258
Virginia .....	2,140	3,045	39,409	34,772	8,930	10,177
West Virginia .....	309	248	3,093	2,811	12,583	11,560
<b>PAD District II Total</b> .....	<b>49,654</b>	<b>46,185</b>	<b>1,735,937</b>	<b>1,681,748</b>	<b>174,601</b>	<b>220,686</b>
Illinois .....	1,565	822	209,434	217,627	33,655	43,150
Indiana .....	4,396	2,341	101,228	99,117	26,752	27,544
Iowa .....	-	-	211,720	204,867	3,362	7,466
Kansas .....	5,844	3,255	182,949	168,523	5,208	7,322
Kentucky .....	604	4,737	41,397	45,798	9,007	7,311
Michigan .....	2,068	2,293	57,070	53,719	23,436	24,720
Minnesota .....	25	284	186,903	173,849	6,454	5,905
Missouri .....	82	112	60,984	62,799	6,733	9,009
Nebraska .....	1,036	39	182,347	179,038	2,404	2,253
North Dakota .....	3,612	4,564	93,925	90,760	5,441	35,210
Ohio .....	1,454	1,584	93,399	88,418	26,622	30,957
Oklahoma .....	28,719	25,809	74,001	73,663	855	2,845
South Dakota .....	186	-	76,849	72,741	5	720
Tennessee .....	62	346	73,155	62,103	13,828	12,020
Wisconsin .....	-	-	90,577	88,726	10,840	4,254
<b>PAD District III Total</b> .....	<b>667,998</b>	<b>598,813</b>	<b>694,421</b>	<b>666,824</b>	<b>47,599</b>	<b>46,498</b>
Alabama .....	9,057	371	36,524	29,653	6,180	9,617
Arkansas .....	1,870	1,779	114,620	118,249	5,788	10,106
Louisiana .....	344,220	351,457	55,055	53,438	14,533	12,739
Mississippi .....	1,557	2,084	108,824	106,168	2,514	3,553
New Mexico .....	23,800	18,467	14,057	15,565	1,289	686
Texas .....	287,494	224,655	365,341	343,751	17,295	9,798
<b>PAD District IV Total</b> .....	<b>34,328</b>	<b>27,819</b>	<b>212,108</b>	<b>192,285</b>	<b>6,966</b>	<b>7,195</b>
Colorado .....	6,007	4,499	67,132	68,175	444	480
Idaho .....	1	-	48,982	38,369	33	25
Montana .....	1,744	1,601	61,441	51,106	15	-
Utah .....	5,272	5,072	19,951	20,748	2,409	3,080
Wyoming .....	21,304	16,646	14,601	13,888	4,065	3,610
<b>PAD District V Total</b> .....	<b>91,979</b>	<b>103,651</b>	<b>514,637</b>	<b>473,947</b>	<b>167,847</b>	<b>179,899</b>
Alaska .....	82,777	94,891	2	2	55,471	60,087
Arizona .....	93	96	31,761	26,169	3,254	3,022
California .....	5,321	6,052	364,237	335,225	6,492	7,868
Hawaii .....	1,902	1,274	7,130	9,392	100,324	106,517
Nevada .....	505	305	6,656	5,564	1,709	1,560
Oregon .....	124	242	44,829	33,161	441	392
Washington .....	1,257	790	60,021	64,435	157	453

See footnotes at end of table.

**Table 4. Sales of Distillate Fuel Oil by End Use, 1997 and 1998 (Continued)**

(Thousand Gallons)

Destination	Railroad		Vessel Bunkering		On-Highway	
	1997	1998	1997	1998	1997	1998
<b>U.S. Total</b> .....	<b>3,277,802</b>	<b>3,180,124</b>	<b>2,573,800</b>	<b>2,595,076</b>	<b>28,614,022</b>	<b>30,150,191</b>
<b>PAD District I Total</b> .....	<b>539,611</b>	<b>491,650</b>	<b>505,046</b>	<b>520,608</b>	<b>8,951,981</b>	<b>9,398,405</b>
<b>Subdistrict IA Total</b> .....	<b>25,248</b>	<b>29,317</b>	<b>61,578</b>	<b>47,876</b>	<b>913,558</b>	<b>942,889</b>
Connecticut .....	8,355	7,068	3,267	2,847	216,062	222,076
Maine .....	6,222	8,036	12,564	12,565	138,527	135,254
Massachusetts .....	9,742	12,805	33,575	19,787	344,131	357,050
New Hampshire .....	128	17	386	536	<sup>E</sup> 64,481	103,225
Rhode Island .....	127	270	11,318	11,641	72,916	48,713
Vermont .....	675	1,121	467	499	77,441	76,571
<b>Subdistrict IB Total</b> .....	<b>144,230</b>	<b>128,258</b>	<b>144,148</b>	<b>155,557</b>	<b>3,306,771</b>	<b>3,420,503</b>
Delaware .....	433	445	2,151	2,644	63,187	62,453
District of Columbia .....	5,221	4,672	-	3	21,572	21,412
Maryland .....	31,056	6,024	11,838	20,673	370,944	425,381
New Jersey .....	54,073	44,261	105,198	92,631	<sup>E</sup> 633,028	717,711
New York .....	9,009	24,067	5,187	4,899	<sup>E</sup> 977,851	917,161
Pennsylvania .....	44,437	48,789	19,774	34,707	1,240,189	1,276,385
<b>Subdistrict IC Total</b> .....	<b>370,133</b>	<b>334,075</b>	<b>299,321</b>	<b>317,174</b>	<b>4,731,652</b>	<b>5,035,013</b>
Florida .....	74,037	106,370	148,977	161,733	1,177,788	1,182,855
Georgia .....	100,590	76,415	12,068	10,528	1,185,844	1,231,023
North Carolina .....	69,309	45,996	28,226	36,183	854,189	892,816
South Carolina .....	14,381	16,635	15,593	13,937	484,503	563,590
Virginia .....	93,815	68,093	27,331	29,752	832,903	895,185
West Virginia .....	18,000	20,568	67,125	65,042	<sup>E</sup> 196,425	269,544
<b>PAD District II Total</b> .....	<b>1,342,830</b>	<b>1,324,803</b>	<b>450,919</b>	<b>624,376</b>	<b>9,659,243</b>	<b>10,205,834</b>
Illinois .....	146,356	110,860	43,711	44,684	936,299	1,077,513
Indiana .....	105,586	68,949	40,428	27,349	1,121,011	1,129,693
Iowa .....	52,827	48,021	6,107	7,595	457,122	479,789
Kansas .....	88,792	80,810	-	-	<sup>E</sup> 364,088	372,593
Kentucky .....	97,458	102,663	109,544	95,612	683,925	690,621
Michigan .....	47,775	55,047	5,817	8,241	808,162	865,113
Minnesota .....	72,781	96,950	2,992	4,028	502,305	546,107
Missouri .....	26,641	30,118	178,455	363,176	814,212	933,682
Nebraska .....	197,184	220,015	73	39	316,626	360,777
North Dakota .....	45,708	19,930	-	544	145,436	142,612
Ohio .....	161,957	147,847	5,749	9,191	1,400,649	1,412,948
Oklahoma .....	169,752	208,606	166	548	562,915	566,471
South Dakota .....	1,859	1,351	-	-	140,377	141,809
Tennessee .....	87,696	101,523	55,768	60,662	776,452	821,331
Wisconsin .....	40,457	32,115	2,109	2,708	629,664	664,775
<b>PAD District III Total</b> .....	<b>680,361</b>	<b>676,222</b>	<b>1,197,462</b>	<b>1,098,953</b>	<b>4,738,216</b>	<b>5,125,135</b>
Alabama .....	49,779	43,176	69,204	28,847	656,302	701,742
Arkansas .....	54,161	62,776	3,047	5,549	532,548	560,831
Louisiana .....	25,523	31,054	778,231	663,667	525,902	541,189
Mississippi .....	28,913	23,277	40,566	25,392	431,389	494,855
New Mexico .....	26,294	13,874	-	-	341,429	393,110
Texas .....	495,691	502,065	306,415	375,498	2,250,646	2,433,408
<b>PAD District IV Total</b> .....	<b>278,761</b>	<b>277,361</b>	<b>196</b>	<b>170</b>	<b>1,224,729</b>	<b>1,303,954</b>
Colorado .....	48,369	62,169	-	-	291,105	383,801
Idaho .....	29,076	34,231	178	170	<sup>E</sup> 202,725	184,607
Montana .....	69,896	63,079	-	-	<sup>E</sup> 178,706	171,675
Utah .....	36,658	26,672	17	-	293,452	303,331
Wyoming .....	94,761	91,211	-	-	258,741	260,540
<b>PAD District V Total</b> .....	<b>436,239</b>	<b>410,088</b>	<b>420,176</b>	<b>350,970</b>	<b>4,039,853</b>	<b>4,116,863</b>
Alaska .....	4,925	5,111	140,831	116,596	<sup>E</sup> 68,374	68,548
Arizona .....	3,636	2,901	27	-	<sup>E</sup> 557,464	602,809
California .....	250,124	262,435	163,933	119,358	2,288,069	2,339,261
Hawaii .....	-	-	19,824	23,112	28,487	28,956
Nevada .....	8,760	4,876	-	-	221,981	228,955
Oregon .....	89,008	62,391	14,308	17,512	<sup>E</sup> 408,624	418,953
Washington .....	79,785	72,373	81,253	74,391	466,854	429,381

See footnotes at end of table.

**Table 4. Sales of Distillate Fuel Oil by End Use, 1997 and 1998 (Continued)**

(Thousand Gallons)

Destination	Military		Off-Highway		All Other		Total	
	1997	1998	1997	1998	1997	1998	1997	1998
<b>U.S. Total</b> .....	<b>432,621</b>	<b>352,189</b>	<b>2,276,548</b>	<b>2,477,199</b>	-	-	<b>54,366,495</b>	<b>55,305,694</b>
<b>PAD District I Total</b> .....	<b>57,503</b>	<b>40,860</b>	<b>600,716</b>	<b>640,744</b>	-	-	<b>19,631,529</b>	<b>19,588,241</b>
<b>Subdistrict IA Total</b> .....	<b>6,506</b>	<b>3,855</b>	<b>64,414</b>	<b>64,146</b>	-	-	<b>3,952,368</b>	<b>3,800,101</b>
Connecticut .....	3,761	881	7,760	7,854	-	-	961,829	872,827
Maine .....	798	1,007	21,464	22,066	-	-	638,728	669,989
Massachusetts .....	1,726	525	23,482	20,151	-	-	1,490,455	1,422,002
New Hampshire .....	-	554	6,110	8,221	-	-	340,549	366,356
Rhode Island .....	93	749	3,366	2,972	-	-	289,459	244,151
Vermont .....	128	138	2,231	2,881	-	-	231,347	224,775
<b>Subdistrict IB Total</b> .....	<b>23,663</b>	<b>14,786</b>	<b>165,467</b>	<b>173,945</b>	-	-	<b>8,189,310</b>	<b>7,879,408</b>
Delaware .....	458	1,160	4,283	5,954	-	-	143,110	136,707
District of Columbia .....	135	162	609	460	-	-	73,847	70,134
Maryland .....	9,455	3,441	23,311	26,647	-	-	850,718	897,453
New Jersey .....	1,241	1,030	31,530	41,103	-	-	1,520,999	1,486,504
New York .....	1,644	666	47,982	49,180	-	-	3,031,593	2,775,706
Pennsylvania .....	10,732	8,327	57,752	50,602	-	-	2,569,044	2,512,902
<b>Subdistrict IC Total</b> .....	<b>27,333</b>	<b>22,219</b>	<b>370,835</b>	<b>402,653</b>	-	-	<b>7,489,851</b>	<b>7,908,733</b>
Florida .....	5,424	4,649	122,036	114,091	-	-	1,804,620	1,915,008
Georgia .....	2,340	2,023	79,962	72,770	-	-	1,565,764	1,626,308
North Carolina .....	1,482	1,758	59,320	92,151	-	-	1,417,539	1,461,010
South Carolina .....	3,004	3,523	42,214	47,976	-	-	692,447	800,933
Virginia .....	15,039	10,165	59,498	65,776	-	-	1,551,657	1,564,514
West Virginia .....	45	102	7,805	9,889	-	-	457,823	540,959
<b>PAD District II Total</b> .....	<b>22,318</b>	<b>18,016</b>	<b>655,821</b>	<b>685,408</b>	-	-	<b>16,173,836</b>	<b>16,885,433</b>
Illinois .....	1,248	1,520	59,653	77,215	-	-	1,640,961	1,796,635
Indiana .....	376	352	37,858	46,637	-	-	1,615,545	1,620,944
Iowa .....	2,293	304	53,838	50,428	-	-	848,867	876,313
Kansas .....	1,147	429	28,255	25,328	-	-	710,552	694,020
Kentucky .....	1,525	1,709	35,187	44,451	-	-	1,217,943	1,228,750
Michigan .....	373	279	70,670	70,799	-	-	1,301,707	1,317,113
Minnesota .....	378	293	49,802	48,036	-	-	1,029,110	1,078,517
Missouri .....	1,194	787	59,105	58,016	-	-	1,246,087	1,566,842
Nebraska .....	620	1,187	16,542	19,652	-	-	732,324	817,535
North Dakota .....	679	625	7,491	8,732	-	-	348,314	346,648
Ohio .....	222	266	76,694	72,646	-	-	2,049,796	2,013,443
Oklahoma .....	916	541	39,582	37,353	-	-	910,045	952,459
South Dakota .....	2,413	632	8,164	8,028	-	-	265,644	255,714
Tennessee .....	1,358	1,931	67,554	69,348	-	-	1,169,890	1,223,960
Wisconsin .....	7,577	7,162	45,427	48,738	-	-	1,087,051	1,096,540
<b>PAD District III Total</b> .....	<b>169,552</b>	<b>169,731</b>	<b>479,820</b>	<b>601,559</b>	-	-	<b>9,167,786</b>	<b>9,505,662</b>
Alabama .....	988	813	87,329	61,786	-	-	999,333	973,016
Arkansas .....	1,162	877	34,258	31,019	-	-	782,417	823,479
Louisiana .....	18,215	1,723	127,984	120,641	-	-	1,922,627	1,802,172
Mississippi .....	5,108	3,634	51,773	47,803	-	-	724,875	744,716
New Mexico .....	2,282	1,280	10,399	11,627	-	-	469,264	498,369
Texas .....	141,797	161,404	168,077	328,682	-	-	4,269,270	4,663,910
<b>PAD District IV Total</b> .....	<b>2,941</b>	<b>2,975</b>	<b>138,753</b>	<b>149,471</b>	-	-	<b>2,200,163</b>	<b>2,265,536</b>
Colorado .....	868	1,076	40,562	53,617	-	-	514,913	634,292
Idaho .....	381	102	27,988	25,023	-	-	368,876	343,129
Montana .....	194	218	20,635	18,065	-	-	391,019	343,578
Utah .....	1,469	1,547	30,578	38,115	-	-	433,944	456,838
Wyoming .....	29	31	18,989	14,650	-	-	491,411	487,699
<b>PAD District V Total</b> .....	<b>180,307</b>	<b>120,606</b>	<b>401,440</b>	<b>400,017</b>	-	-	<b>7,193,181</b>	<b>7,060,822</b>
Alaska .....	3,502	13,156	39,769	30,011	-	-	550,630	541,703
Arizona .....	535	587	34,679	37,066	-	-	777,730	817,764
California .....	24,048	26,261	179,294	154,840	-	-	3,458,448	3,443,604
Hawaii .....	9,211	2,496	15,357	13,003	-	-	202,022	196,001
Nevada .....	1,570	1,306	20,924	12,592	-	-	434,158	404,224
Oregon .....	648	191	38,692	44,832	-	-	723,438	700,719
Washington .....	140,795	76,609	72,724	107,673	-	-	1,046,756	956,806

<sup>E</sup> 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 1997 and 1998.

• 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, 1997 and 1998**

(Thousand Gallons)

Destination	Commercial		Industrial		Oil Company		Electric Utility	
	1997	1998	1997	1998	1997	1998	1997	1998
<b>U.S. Total</b> .....	<b>789,674</b>	<b>715,111</b>	<b>1,898,611</b>	<b>1,797,906</b>	<b>160,477</b>	<b>127,464</b>	<b>4,599,084</b>	<b>6,431,746</b>
<b>PAD District I Total</b> .....	<b>757,944</b>	<b>574,886</b>	<b>1,462,795</b>	<b>1,435,165</b>	<b>68,545</b>	<b>85,367</b>	<b>3,849,646</b>	<b>5,536,036</b>
<b>Subdistrict IA Total</b> .....	<b>193,704</b>	<b>138,729</b>	<b>451,268</b>	<b>457,718</b>	<b>233</b>	<b>234</b>	<b>1,415,233</b>	<b>1,461,444</b>
Connecticut .....	14,335	8,443	16,846	15,871	233	234	546,560	522,591
Maine .....	26,195	14,851	297,931	285,824	-	-	103,790	148,719
Massachusetts .....	99,935	74,743	76,852	93,910	-	-	734,992	729,754
New Hampshire .....	21,151	14,594	37,007	37,752	-	-	29,891	60,380
Rhode Island .....	27,132	20,467	13,152	15,514	-	-	-	-
Vermont .....	4,956	5,631	9,480	8,848	-	-	-	-
<b>Subdistrict IB Total</b> .....	<b>544,746</b>	<b>423,295</b>	<b>271,866</b>	<b>261,037</b>	<b>67,389</b>	<b>84,856</b>	<b>887,574</b>	<b>1,618,177</b>
Delaware .....	8,663	6,541	35,171	32,470	19,075	19,110	68,252	90,705
District of Columbia .....	1,539	222	-	-	-	-	-	-
Maryland .....	2,224	2,217	36,768	32,872	664	694	92,475	248,382
New Jersey .....	35,422	25,816	57,959	42,908	2,549	2,180	18,108	112,091
New York .....	450,968	356,962	86,772	97,759	920	798	643,544	999,720
Pennsylvania .....	45,929	31,537	55,195	55,027	44,182	62,075	65,197	167,278
<b>Subdistrict IC Total</b> .....	<b>19,494</b>	<b>12,861</b>	<b>739,662</b>	<b>716,409</b>	<b>923</b>	<b>277</b>	<b>1,546,839</b>	<b>2,456,416</b>
Florida .....	5,546	522	150,408	215,754	361	-	1,499,101	2,256,686
Georgia .....	266	61	136,497	63,797	-	-	2,117	6,373
North Carolina .....	7,538	6,015	247,221	243,334	-	-	-	-
South Carolina .....	450	341	87,974	83,726	141	120	1,129	8,121
Virginia .....	5,693	5,922	107,244	105,993	421	157	44,492	185,235
West Virginia .....	-	-	10,317	3,806	-	-	-	-
<b>PAD District II Total</b> .....	<b>26,394</b>	<b>40,998</b>	<b>218,189</b>	<b>199,235</b>	<b>52,951</b>	<b>19,559</b>	<b>82,102</b>	<b>118,977</b>
Illinois .....	5,770	6,090	28,873	7,907	1,342	-	20,009	35,128
Indiana .....	393	6,375	25,257	38,954	22,725	-	-	-
Iowa .....	-	40	3,190	4,617	-	-	-	-
Kansas .....	-	4,159	7,477	9,700	-	-	14,690	5,102
Kentucky .....	-	-	4,149	1,014	-	-	-	-
Michigan .....	2,474	87	13,974	16,556	4,504	4,515	36,120	74,610
Minnesota .....	7,122	8,503	16,471	15,695	6,710	2,925	3,744	2,301
Missouri .....	1,485	1,789	8,014	9,619	-	-	7,392	1,836
Nebraska .....	422	374	4,486	5,173	-	-	-	-
North Dakota .....	400	856	3,641	1,449	4,284	-	65	-
Ohio .....	90	35	48,627	39,615	4,270	5,047	82	-
Oklahoma .....	-	-	11,563	5,278	-	-	-	-
South Dakota .....	375	283	2,461	5,036	-	-	-	-
Tennessee .....	1,972	75	4,760	8,158	63	74	-	-
Wisconsin .....	5,891	12,332	35,245	30,465	5,832	5,092	-	-
<b>PAD District III Total</b> .....	<b>-</b>	<b>-</b>	<b>163,741</b>	<b>129,749</b>	<b>6</b>	<b>1,806</b>	<b>223,555</b>	<b>419,216</b>
Alabama .....	-	-	26,765	32,364	-	-	-	-
Arkansas .....	-	-	931	177	6	-	2,269	5,846
Louisiana .....	-	-	45,220	38,678	-	-	33,155	39,040
Mississippi .....	-	-	1,373	8,063	-	-	186,282	363,741
New Mexico .....	-	-	7,003	7,128	-	-	-	-
Texas .....	-	-	82,449	43,339	-	1,806	1,849	10,589
<b>PAD District IV Total</b> .....	<b>576</b>	<b>514</b>	<b>3,336</b>	<b>5,809</b>	<b>10,356</b>	<b>5,073</b>	<b>-</b>	<b>-</b>
Colorado .....	-	158	131	5	-	-	-	-
Idaho .....	36	176	56	65	-	-	-	-
Montana .....	50	31	-	500	7,181	5,073	-	-
Utah .....	482	146	2,985	4,918	3,175	-	-	-
Wyoming .....	7	3	164	321	-	-	-	-
<b>PAD District V Total</b> .....	<b>4,761</b>	<b>98,714</b>	<b>50,550</b>	<b>27,947</b>	<b>28,620</b>	<b>15,658</b>	<b>443,780</b>	<b>357,516</b>
Alaska .....	-	-	6,186	-	-	-	-	-
Arizona .....	-	-	628	1,030	-	-	-	-
California .....	76	3,113	3,611	1,597	932	28	-	-
Hawaii .....	490	89,894	10,986	515	26,710	15,585	443,728	357,147
Nevada .....	31	197	9,148	4,068	45	21	-	369
Oregon .....	2,157	3,775	7,409	7,328	-	-	52	-
Washington .....	2,006	1,735	12,582	13,409	932	24	-	-

See footnotes at end of table.

**Table 5. Sales of Residual Fuel Oil by End Use, 1997 and 1998 (Continued)**

(Thousand Gallons)

Destination	Vessel Bunkering		Military		All Other		Total	
	1997	1998	1997	1998	1997	1998	1997	1998
<b>U.S. Total</b> .....	<b>5,010,059</b>	<b>5,620,417</b>	<b>42,164</b>	<b>33,648</b>	<b>4,065</b>	<b>3,549</b>	<b>12,504,135</b>	<b>14,729,841</b>
<b>PAD District I Total</b> .....	<b>1,399,153</b>	<b>1,525,575</b>	<b>34,641</b>	<b>26,095</b>	<b>3,898</b>	<b>3,460</b>	<b>7,576,621</b>	<b>9,186,585</b>
<b>Subdistrict IA Total</b> .....	<b>61,648</b>	<b>10,855</b>	<b>6,027</b>	<b>6,651</b>	<b>511</b>	<b>426</b>	<b>2,128,624</b>	<b>2,076,057</b>
Connecticut .....	238	260	857	481	186	136	579,254	548,015
Maine .....	10	9,276	4,784	5,543	291	290	433,002	464,503
Massachusetts .....	61,209	937	387	627	34	-	973,408	899,971
New Hampshire .....	130	317	-	-	-	-	88,179	113,042
Rhode Island .....	60	65	-	-	-	-	40,345	36,046
Vermont .....	-	-	-	-	-	-	14,436	14,479
<b>Subdistrict IB Total</b> .....	<b>822,238</b>	<b>975,316</b>	<b>14,141</b>	<b>10,102</b>	-	-	<b>2,607,954</b>	<b>3,372,783</b>
Delaware .....	73,277	72,240	1,076	165	-	-	205,514	221,232
District of Columbia .....	-	-	-	-	-	-	1,539	222
Maryland .....	26,375	54,396	5,929	5,810	-	-	164,435	344,371
New Jersey .....	290,401	347,970	6,977	3,333	-	-	411,416	534,299
New York .....	228,003	211,902	-	400	-	-	1,410,207	1,667,540
Pennsylvania .....	204,182	288,807	159	395	-	-	414,843	605,120
<b>Subdistrict IC Total</b> .....	<b>515,267</b>	<b>539,405</b>	<b>14,473</b>	<b>9,342</b>	<b>3,386</b>	<b>3,034</b>	<b>2,840,042</b>	<b>3,737,745</b>
Florida .....	376,345	403,968	2,327	406	2,750	2,503	2,036,837	2,879,839
Georgia .....	49,330	48,114	12	-	-	-	188,222	118,344
North Carolina .....	8,830	7,144	3,522	648	637	531	267,748	257,671
South Carolina .....	19,564	17,411	4,973	4,663	-	-	114,232	114,383
Virginia .....	61,198	62,769	3,639	3,625	-	-	222,686	363,702
West Virginia .....	-	-	-	-	-	-	10,317	3,806
<b>PAD District II Total</b> .....	<b>26,055</b>	<b>25,733</b>	<b>382</b>	<b>726</b>	<b>59</b>	<b>19</b>	<b>406,131</b>	<b>405,247</b>
Illinois .....	2,106	1,473	3	468	-	-	58,104	51,065
Indiana .....	17,609	15,965	-	-	-	-	65,984	61,294
Iowa .....	-	-	-	-	-	-	3,190	4,657
Kansas .....	-	-	-	140	-	-	22,167	19,102
Kentucky .....	-	-	-	-	-	-	7,369	2,920
Michigan .....	2,306	4,326	-	-	25	19	59,403	100,113
Minnesota .....	425	-	-	-	-	-	34,473	29,424
Missouri .....	278	212	379	-	-	-	17,547	13,456
Nebraska .....	-	-	-	-	-	-	4,909	5,547
North Dakota .....	-	-	-	-	-	-	8,390	2,305
Ohio .....	2,612	3,035	-	-	-	-	55,681	47,732
Oklahoma .....	-	-	-	118	-	-	11,563	5,395
South Dakota .....	-	-	-	-	-	-	2,836	5,318
Tennessee .....	179	-	-	-	-	-	6,975	8,307
Wisconsin .....	540	722	-	-	34	-	47,542	48,611
<b>PAD District III Total</b> .....	<b>1,914,358</b>	<b>2,465,867</b>	<b>700</b>	<b>1,361</b>	<b>44</b>	<b>37</b>	<b>2,302,404</b>	<b>3,018,037</b>
Alabama .....	86,673	43,593	-	-	-	-	113,438	75,957
Arkansas .....	-	-	-	-	-	-	3,205	6,024
Louisiana .....	869,435	1,068,698	700	-	-	-	948,510	1,146,416
Mississippi .....	55,824	54,858	-	-	-	-	243,479	426,662
New Mexico .....	-	-	-	-	44	37	7,047	7,165
Texas .....	902,426	1,298,719	-	1,361	-	-	986,724	1,355,814
<b>PAD District IV Total</b> .....	-	-	-	-	<b>61</b>	<b>33</b>	<b>14,329</b>	<b>11,429</b>
Colorado .....	-	-	-	-	17	-	148	163
Idaho .....	-	-	-	-	4	2	97	243
Montana .....	-	-	-	-	-	-	7,231	5,603
Utah .....	-	-	-	-	23	26	6,666	5,091
Wyoming .....	-	-	-	-	16	5	188	328
<b>PAD District V Total</b> .....	<b>1,670,493</b>	<b>1,603,242</b>	<b>6,442</b>	<b>5,466</b>	<b>4</b>	-	<b>2,204,649</b>	<b>2,108,543</b>
Alaska .....	96	375	-	-	-	-	6,283	375
Arizona .....	-	-	-	-	-	-	628	1,030
California .....	945,817	900,261	3,538	1,662	-	-	953,975	906,661
Hawaii .....	19,549	19,330	2,291	896	-	-	503,754	483,367
Nevada .....	-	-	-	-	-	-	9,224	4,654
Oregon .....	144,373	193,131	-	-	-	-	153,991	204,234
Washington .....	560,658	490,146	612	2,909	4	-	576,795	508,222

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 1997 and 1998.

**Table 6. Sales of Kerosene by End Use, 1997 and 1998**

(Thousand Gallons)

Destination	Residential		Commercial		Industrial	
	1997	1998	1997	1998	1997	1998
<b>U.S. Total</b> .....	<b>688,025</b>	<b>802,348</b>	<b>182,559</b>	<b>230,743</b>	<b>110,738</b>	<b>123,246</b>
<b>PAD District I Total</b> .....	<b>555,496</b>	<b>659,105</b>	<b>146,401</b>	<b>189,089</b>	<b>66,284</b>	<b>75,519</b>
<b>Subdistrict IA Total</b> .....	<b>100,429</b>	<b>133,998</b>	<b>18,515</b>	<b>27,038</b>	<b>5,190</b>	<b>11,808</b>
Connecticut .....	6,020	5,304	4,357	7,381	1,608	2,180
Maine .....	55,003	78,969	6,581	10,150	1,388	2,107
Massachusetts .....	7,965	8,257	1,953	2,957	710	884
New Hampshire .....	19,986	26,041	2,437	2,397	762	462
Rhode Island .....	1,441	1,731	2,322	2,826	132	512
Vermont .....	10,015	13,696	865	1,327	591	5,663
<b>Subdistrict IB Total</b> .....	<b>222,668</b>	<b>250,726</b>	<b>97,417</b>	<b>124,659</b>	<b>48,276</b>	<b>48,778</b>
Delaware .....	5,087	6,884	656	512	246	41
District of Columbia .....	247	232	8,495	12,306	18	-
Maryland .....	25,085	30,226	9,531	13,165	1,121	4,211
New Jersey .....	12,283	12,939	31,496	45,545	27,498	18,627
New York .....	73,256	78,389	33,660	41,222	14,508	20,289
Pennsylvania .....	106,710	122,056	13,578	11,908	4,884	5,609
<b>Subdistrict IC Total</b> .....	<b>232,399</b>	<b>274,381</b>	<b>30,469</b>	<b>37,392</b>	<b>12,818</b>	<b>14,932</b>
Florida .....	8,485	7,031	2,257	2,737	2,085	3,304
Georgia .....	5,685	7,199	1,169	1,147	762	1,240
North Carolina .....	109,345	125,513	8,611	10,943	4,154	4,209
South Carolina .....	25,640	28,548	677	1,984	2,629	4,202
Virginia .....	66,479	86,216	15,615	18,190	802	821
West Virginia .....	16,765	19,874	2,140	2,390	2,386	1,156
<b>PAD District II Total</b> .....	<b>108,138</b>	<b>115,109</b>	<b>29,328</b>	<b>30,393</b>	<b>19,238</b>	<b>20,747</b>
Illinois .....	4,576	5,053	4,531	1,636	3,831	5,649
Indiana .....	12,707	12,605	3,639	2,162	1,257	2,024
Iowa .....	1,185	1,063	343	133	208	307
Kansas .....	486	748	1,169	358	175	232
Kentucky .....	20,393	25,670	4,751	5,480	3,973	1,964
Michigan .....	10,683	11,437	2,331	2,754	1,014	1,713
Minnesota .....	2,168	3,054	1,072	1,308	64	65
Missouri .....	1,879	2,075	862	765	341	164
Nebraska .....	294	402	109	120	20	31
North Dakota .....	224	254	22	43	6	3
Ohio .....	32,503	32,527	5,318	9,159	6,351	5,862
Oklahoma .....	585	527	684	878	298	183
South Dakota .....	245	213	24	19	10	9
Tennessee .....	18,357	17,828	4,159	5,160	1,317	2,176
Wisconsin .....	1,852	1,654	314	419	373	364
<b>PAD District III Total</b> .....	<b>10,068</b>	<b>7,748</b>	<b>2,949</b>	<b>3,984</b>	<b>16,264</b>	<b>18,873</b>
Alabama .....	2,407	1,692	374	878	2,474	1,595
Arkansas .....	789	627	220	286	166	113
Louisiana .....	3,865	2,886	110	227	902	1,072
Mississippi .....	901	1,017	533	276	1,209	2,093
New Mexico .....	224	242	120	119	202	308
Texas .....	1,881	1,284	1,593	2,198	11,311	13,693
<b>PAD District IV Total</b> .....	<b>1,310</b>	<b>1,933</b>	<b>462</b>	<b>801</b>	<b>1,249</b>	<b>606</b>
Colorado .....	799	1,015	205	366	66	68
Idaho .....	158	580	44	139	169	135
Montana .....	73	107	10	4	3	5
Utah .....	217	163	149	225	96	135
Wyoming .....	63	68	54	67	915	262
<b>PAD District V Total</b> .....	<b>13,013</b>	<b>18,453</b>	<b>3,419</b>	<b>6,477</b>	<b>7,703</b>	<b>7,502</b>
Alaska .....	6	35	14	14	-	2
Arizona .....	96	112	160	60	77	167
California .....	5,657	9,959	1,737	2,663	7,261	6,637
Hawaii .....	1	-	7	5	13	6
Nevada .....	229	406	32	88	60	22
Oregon .....	1,438	2,768	927	2,628	74	543
Washington .....	5,587	5,173	542	1,020	218	126

See footnotes at end of table.

**Table 6. Sales of Kerosene by End Use, 1997 and 1998 (Continued)**

(Thousand Gallons)

Destination	Farm		All Other		Total	
	1997	1998	1997	1998	1997	1998
<b>U.S. Total</b> .....	<b>21,556</b>	<b>26,823</b>	<b>7,054</b>	<b>13,420</b>	<b>1,009,932</b>	<b>1,196,580</b>
<b>PAD District I Total</b> .....	<b>7,880</b>	<b>9,557</b>	<b>2,563</b>	<b>7,916</b>	<b>778,624</b>	<b>941,185</b>
<b>Subdistrict IA Total</b> .....	<b>908</b>	<b>1,224</b>	<b>243</b>	<b>424</b>	<b>125,286</b>	<b>174,493</b>
Connecticut .....	16	24	-	18	12,000	14,906
Maine .....	228	377	36	74	63,237	91,678
Massachusetts .....	139	49	24	24	10,791	12,171
New Hampshire .....	239	205	88	165	23,513	29,269
Rhode Island .....	-	-	2	36	3,897	5,106
Vermont .....	285	569	93	107	11,848	21,362
<b>Subdistrict IB Total</b> .....	<b>1,430</b>	<b>1,481</b>	<b>1,434</b>	<b>2,580</b>	<b>371,224</b>	<b>428,225</b>
Delaware .....	22	27	-	2	6,012	7,466
District of Columbia .....	-	-	-	-	8,761	12,538
Maryland .....	574	500	23	39	36,335	48,141
New Jersey .....	17	16	141	127	71,435	77,254
New York .....	267	277	381	887	122,072	141,064
Pennsylvania .....	549	662	889	1,526	126,610	141,762
<b>Subdistrict IC Total</b> .....	<b>5,541</b>	<b>6,851</b>	<b>886</b>	<b>4,912</b>	<b>282,114</b>	<b>338,467</b>
Florida .....	89	144	20	3,418	12,936	16,634
Georgia .....	17	640	226	52	7,859	10,279
North Carolina .....	2,081	1,651	464	246	124,655	142,561
South Carolina .....	188	364	34	53	29,168	35,152
Virginia .....	2,938	3,069	97	1,057	85,930	109,353
West Virginia .....	229	983	46	86	21,566	24,489
<b>PAD District II Total</b> .....	<b>11,647</b>	<b>14,671</b>	<b>3,462</b>	<b>2,292</b>	<b>171,813</b>	<b>183,213</b>
Illinois .....	1,805	2,187	654	124	15,397	14,649
Indiana .....	1,337	1,204	353	180	19,294	18,176
Iowa .....	901	1,063	23	50	2,660	2,615
Kansas .....	512	595	94	160	2,436	2,092
Kentucky .....	1,550	2,504	199	144	30,865	35,762
Michigan .....	515	281	329	86	14,873	16,272
Minnesota .....	940	942	46	94	4,289	5,464
Missouri .....	114	389	50	89	3,245	3,481
Nebraska .....	464	369	94	45	981	967
North Dakota .....	19	16	13	18	284	335
Ohio .....	2,666	4,166	1,218	1,008	48,057	52,722
Oklahoma .....	265	259	67	74	1,899	1,922
South Dakota .....	81	42	8	-	368	283
Tennessee .....	309	427	228	153	24,369	25,744
Wisconsin .....	169	226	87	66	2,794	2,730
<b>PAD District III Total</b> .....	<b>620</b>	<b>689</b>	<b>606</b>	<b>2,338</b>	<b>30,506</b>	<b>33,633</b>
Alabama .....	12	10	62	55	5,329	4,230
Arkansas .....	147	49	104	561	1,425	1,636
Louisiana .....	12	45	235	1,244	5,123	5,474
Mississippi .....	62	33	11	66	2,717	3,485
New Mexico .....	51	48	7	17	604	733
Texas .....	336	505	187	394	15,308	18,074
<b>PAD District IV Total</b> .....	<b>541</b>	<b>190</b>	<b>68</b>	<b>293</b>	<b>3,630</b>	<b>3,822</b>
Colorado .....	125	122	32	280	1,227	1,850
Idaho .....	381	39	-	-	752	893
Montana .....	2	2	-	-	89	118
Utah .....	28	11	16	5	506	539
Wyoming .....	5	16	20	8	1,057	423
<b>PAD District V Total</b> .....	<b>869</b>	<b>1,716</b>	<b>354</b>	<b>580</b>	<b>25,358</b>	<b>34,727</b>
Alaska .....	-	-	1	1	22	51
Arizona .....	12	19	2	95	346	452
California .....	224	428	150	241	15,030	19,927
Hawaii .....	-	-	-	-	21	11
Nevada .....	10	29	-	1	330	546
Oregon .....	53	124	117	97	2,610	6,158
Washington .....	569	1,116	83	146	6,999	7,581

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 1997 and 1998.

**Table 7. Sales for Residential Use: Distillate Fuel Oil and Kerosene, 1998**  
(Thousand Gallons)

Destination	Distillate Fuel Oil			Kerosene
	No. 1	No. 2	Total	
<b>U.S. Total</b> .....	<b>132,686</b>	<b>5,687,272</b>	<b>5,819,958</b>	<b>802,348</b>
<b>PAD District I Total</b> .....	<b>12,158</b>	<b>4,896,741</b>	<b>4,908,899</b>	<b>659,105</b>
<b>Subdistrict IA Total</b> .....	<b>4,508</b>	<b>1,979,888</b>	<b>1,984,396</b>	<b>133,998</b>
Connecticut .....	225	485,500	485,725	5,304
Maine .....	2,781	328,919	331,700	78,969
Massachusetts .....	590	745,119	745,709	8,257
New Hampshire .....	912	188,772	189,684	26,041
Rhode Island .....	1	143,394	143,395	1,731
Vermont .....	-	88,183	88,183	13,696
<b>Subdistrict IB Total</b> .....	<b>5,256</b>	<b>2,513,511</b>	<b>2,518,767</b>	<b>250,726</b>
Delaware .....	326	35,009	35,335	6,884
District of Columbia .....	-	10,330	10,330	232
Maryland .....	775	188,687	189,462	30,226
New Jersey .....	745	400,113	400,858	12,939
New York .....	1	1,169,876	1,169,877	78,389
Pennsylvania .....	3,409	709,496	712,905	122,056
<b>Subdistrict IC Total</b> .....	<b>2,395</b>	<b>403,343</b>	<b>405,738</b>	<b>274,381</b>
Florida .....	47	4,735	4,782	7,031
Georgia .....	53	4,054	4,107	7,199
North Carolina .....	100	131,350	131,450	125,513
South Carolina .....	443	20,433	20,876	28,548
Virginia .....	1,023	219,474	220,497	86,216
West Virginia .....	728	23,296	24,024	19,874
<b>PAD District II Total</b> .....	<b>71,408</b>	<b>587,899</b>	<b>659,307</b>	<b>115,109</b>
Illinois .....	2,844	15,503	18,347	5,053
Indiana .....	7,260	39,049	46,309	12,605
Iowa .....	4,557	19,602	24,159	1,063
Kansas .....	248	254	502	748
Kentucky .....	750	24,938	25,688	25,670
Michigan .....	8,725	107,803	116,528	11,437
Minnesota .....	19,718	91,914	111,632	3,054
Missouri .....	2,175	10,735	12,910	2,075
Nebraska .....	1,476	1,362	2,838	402
North Dakota .....	4,617	18,734	23,351	254
Ohio .....	2,629	124,421	127,050	32,527
Oklahoma .....	12	42	54	527
South Dakota .....	4,292	12,499	16,791	213
Tennessee .....	1,415	8,697	10,112	17,828
Wisconsin .....	10,691	112,345	123,036	1,654
<b>PAD District III Total</b> .....	<b>49</b>	<b>423</b>	<b>472</b>	<b>7,748</b>
Alabama .....	44	218	262	1,692
Arkansas .....	-	22	22	627
Louisiana .....	-	44	44	2,886
Mississippi .....	3	42	45	1,017
New Mexico .....	1	85	86	242
Texas .....	-	11	11	1,284
<b>PAD District IV Total</b> .....	<b>11,995</b>	<b>27,118</b>	<b>39,113</b>	<b>1,933</b>
Colorado .....	293	523	816	1,015
Idaho .....	3,319	13,037	16,356	580
Montana .....	7,737	10,014	17,751	107
Utah .....	465	2,614	3,079	163
Wyoming .....	182	931	1,113	68
<b>PAD District V Total</b> .....	<b>37,076</b>	<b>175,091</b>	<b>212,167</b>	<b>18,453</b>
Alaska .....	28,825	44,594	73,419	35
Arizona .....	20	177	197	112
California .....	420	6,995	7,415	9,959
Hawaii .....	-	14	14	-
Nevada .....	382	11,589	11,971	406
Oregon .....	3,589	38,394	41,983	2,768
Washington .....	3,841	73,328	77,169	5,173

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 1998.

• Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1998, (DOE/EIA-0340(98)/1).

**Table 8. Sales for Commercial Use: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 1998**  
(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
<b>U.S. Total</b>	<b>84,345</b>	<b>1,351,406</b>	<b>1,059,981</b>	<b>531,096</b>	<b>2,942,482</b>	<b>206,522</b>	<b>3,233,350</b>	<b>715,111</b>	<b>230,743</b>
<b>PAD District I Total</b>	<b>4,603</b>	<b>1,170,098</b>	<b>418,052</b>	<b>220,142</b>	<b>1,808,291</b>	<b>206,255</b>	<b>2,019,149</b>	<b>574,886</b>	<b>189,089</b>
<b>Subdistrict IA Total</b>	<b>381</b>	<b>422,220</b>	<b>92,392</b>	<b>26,675</b>	<b>541,286</b>	<b>54,576</b>	<b>596,243</b>	<b>138,729</b>	<b>27,038</b>
Connecticut	2	83,755	18,172	8,204	110,132	5,393	115,527	8,443	7,381
Maine	269	90,937	24,765	2,959	118,661	1,774	120,703	14,851	10,150
Massachusetts	-	162,992	25,530	9,442	197,964	39,382	237,347	74,743	2,957
New Hampshire	104	38,450	10,749	544	49,742	4,394	54,240	14,594	2,397
Rhode Island	3	17,004	5,961	2,393	25,358	1,864	27,225	20,467	2,826
Vermont	2	29,081	7,215	3,132	39,429	1,769	41,201	5,631	1,327
<b>Subdistrict IB Total</b>	<b>2,358</b>	<b>614,452</b>	<b>157,325</b>	<b>75,924</b>	<b>847,701</b>	<b>148,476</b>	<b>998,535</b>	<b>423,295</b>	<b>124,659</b>
Delaware	-	6,737	3,332	973	11,041	1,677	12,718	6,541	512
District of Columbia	-	11,352	473	929	12,754	1,223	13,976	222	12,306
Maryland	972	44,844	39,714	25,418	109,976	1,271	112,219	2,217	13,165
New Jersey	42	87,059	24,402	8,278	119,739	14,666	134,447	25,816	45,545
New York	1,133	342,036	46,305	10,166	398,507	123,629	523,270	356,962	41,222
Pennsylvania	211	122,424	43,100	30,160	195,684	6,010	201,905	31,537	11,908
<b>Subdistrict IC Total</b>	<b>1,865</b>	<b>133,426</b>	<b>168,334</b>	<b>117,543</b>	<b>419,304</b>	<b>3,203</b>	<b>424,371</b>	<b>12,861</b>	<b>37,392</b>
Florida	-	10,024	33,205	17,831	61,060	104	61,163	522	2,737
Georgia	160	5,573	15,476	10,231	31,279	-	31,440	61	1,147
North Carolina	1,293	43,730	34,471	31,728	109,929	2,274	113,495	6,015	10,943
South Carolina	156	7,173	44,620	14,013	65,805	13	65,974	341	1,984
Virginia	85	63,851	33,773	37,575	135,199	748	136,032	5,922	18,190
West Virginia	170	3,076	6,789	6,166	16,031	65	16,267	-	2,390
<b>PAD District II Total</b>	<b>42,823</b>	<b>139,505</b>	<b>266,578</b>	<b>146,466</b>	<b>552,548</b>	<b>214</b>	<b>595,586</b>	<b>40,998</b>	<b>30,393</b>
Illinois	10,765	19,147	35,441	16,419	71,007	1	81,773	6,090	1,636
Indiana	2,667	18,111	17,744	23,950	59,805	-	62,472	6,375	2,162
Iowa	1,404	5,983	11,765	1,182	18,930	-	20,334	40	133
Kansas	2,203	1,151	14,726	1,288	17,165	-	19,368	4,159	358
Kentucky	413	6,920	23,894	15,156	45,970	113	46,496	-	5,480
Michigan	4,322	15,884	33,180	12,749	61,813	-	66,135	87	2,754
Minnesota	3,434	17,523	12,323	3,727	33,572	-	37,007	8,503	1,308
Missouri	2,119	2,305	18,307	28,166	48,778	49	50,946	1,789	765
Nebraska	3,330	1,543	3,549	1,314	6,406	-	9,736	374	120
North Dakota	1,009	4,662	5,291	856	10,809	-	11,818	856	43
Ohio	4,227	13,498	14,265	17,372	45,135	-	49,362	35	9,159
Oklahoma	804	3,593	20,231	2,557	26,381	-	27,186	-	878
South Dakota	1,300	4,969	2,934	1,213	9,116	-	10,416	283	19
Tennessee	264	2,243	25,230	13,900	41,373	51	41,688	75	5,160
Wisconsin	4,563	21,972	27,698	6,618	56,287	-	60,850	12,332	419
<b>PAD District III Total</b>	<b>4,739</b>	<b>7,282</b>	<b>132,093</b>	<b>66,858</b>	<b>206,233</b>	<b>-</b>	<b>210,972</b>	<b>-</b>	<b>3,984</b>
Alabama	1,091	3,423	14,213	6,178	23,814	-	24,904	-	878
Arkansas	86	67	9,775	5,800	15,642	-	15,728	-	286
Louisiana	165	194	3,909	9,023	13,127	-	13,291	-	227
Mississippi	42	1,890	8,492	5,631	16,012	-	16,054	-	276
New Mexico	256	123	4,086	1,607	5,816	-	6,071	-	119
Texas	3,100	1,585	91,618	38,619	131,822	-	134,923	-	2,198
<b>PAD District IV Total</b>	<b>7,954</b>	<b>9,336</b>	<b>61,978</b>	<b>11,429</b>	<b>82,743</b>	<b>-</b>	<b>90,697</b>	<b>514</b>	<b>801</b>
Colorado	3,087	2,603	31,033	1,375	35,011	-	38,098	158	366
Idaho	1,128	1,738	11,846	3,385	16,969	-	18,097	176	139
Montana	955	1,583	2,348	119	4,050	-	5,005	31	4
Utah	1,490	1,547	13,842	6,133	21,522	-	23,012	146	225
Wyoming	1,295	1,865	2,909	417	5,190	-	6,485	3	67
<b>PAD District V Total</b>	<b>24,225</b>	<b>25,185</b>	<b>181,280</b>	<b>86,201</b>	<b>292,666</b>	<b>54</b>	<b>316,946</b>	<b>98,714</b>	<b>6,477</b>
Alaska	18,299	12,542	397	15,657	28,597	10	46,906	-	14
Arizona	276	49	23,557	25,336	48,941	43	49,260	-	60
California	623	3,463	100,422	12,199	116,084	-	116,706	3,113	2,663
Hawaii	1	80	6,767	2,400	9,246	-	9,247	89,894	5
Nevada	542	2,775	7,813	2,420	13,008	-	13,550	197	88
Oregon	953	2,016	23,048	17,653	42,717	1	43,671	3,775	2,628
Washington	3,532	4,261	19,276	10,537	34,074	-	37,606	1,735	1,020

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 1998.

• Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1998,

(DOE/EIA-0340(98)/1).

**Table 9. Sales for Industrial Use: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 1998**  
(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				
<b>U.S. Total</b>	<b>148,152</b>	<b>548,068</b>	<b>620,472</b>	<b>1,093,405</b>	<b>2,261,945</b>	<b>52,259</b>	<b>2,462,355</b>	<b>1,797,906</b>	<b>123,246</b>
<b>PAD District I Total</b>	<b>21,405</b>	<b>288,983</b>	<b>108,211</b>	<b>318,050</b>	<b>715,245</b>	<b>41,575</b>	<b>778,225</b>	<b>1,435,165</b>	<b>75,519</b>
<b>Subdistrict IA Total</b>	<b>165</b>	<b>67,016</b>	<b>7,552</b>	<b>7,856</b>	<b>82,424</b>	<b>16,225</b>	<b>98,815</b>	<b>457,718</b>	<b>11,808</b>
Connecticut	-	12,575	736	109	13,420	9,574	22,994	15,871	2,180
Maine	165	29,201	1,838	971	32,010	374	32,549	285,824	2,107
Massachusetts	-	12,251	2,263	3,437	17,951	3,295	21,246	93,910	884
New Hampshire	-	2,588	1,684	1,850	6,122	880	7,002	37,752	462
Rhode Island	-	5,816	574	630	7,021	883	7,904	15,514	512
Vermont	-	4,584	457	859	5,899	1,219	7,119	8,848	5,663
<b>Subdistrict IB Total</b>	<b>15,485</b>	<b>121,015</b>	<b>33,265</b>	<b>70,983</b>	<b>225,263</b>	<b>17,393</b>	<b>258,142</b>	<b>261,037</b>	<b>48,778</b>
Delaware	4	1,303	2,501	854	4,658	87	4,750	32,470	41
District of Columbia	-	249	1	5	254	46	300	-	-
Maryland	15,254	36,100	6,590	10,158	52,848	898	69,000	32,872	4,211
New Jersey	30	28,699	825	5,974	35,498	6,113	41,642	42,908	18,627
New York	75	25,147	6,587	4,844	36,577	6,236	42,889	97,759	20,289
Pennsylvania	122	29,517	16,762	49,147	95,427	4,013	99,561	55,027	5,609
<b>Subdistrict IC Total</b>	<b>5,755</b>	<b>100,952</b>	<b>67,394</b>	<b>239,212</b>	<b>407,558</b>	<b>7,957</b>	<b>421,269</b>	<b>716,409</b>	<b>14,932</b>
Florida	129	9,956	22,591	17,769	50,317	4,334	54,779	215,754	3,304
Georgia	1,078	9,697	10,295	25,088	45,080	264	46,422	63,797	1,240
North Carolina	1,678	34,928	14,568	30,366	79,862	2,696	84,236	243,334	4,209
South Carolina	443	9,625	3,523	10,166	23,315	149	23,907	83,726	4,202
Virginia	431	23,783	11,338	54,954	90,075	514	91,020	105,993	821
West Virginia	1,996	12,964	5,078	100,868	118,910	-	120,906	3,806	1,156
<b>PAD District II Total</b>	<b>78,028</b>	<b>229,508</b>	<b>142,153</b>	<b>368,649</b>	<b>740,310</b>	<b>5,147</b>	<b>823,485</b>	<b>199,235</b>	<b>20,747</b>
Illinois	5,568	17,531	17,269	82,744	117,543	12	123,124	7,907	5,649
Indiana	1,975	63,631	19,907	24,514	108,053	154	110,181	38,954	2,024
Iowa	14,938	3,385	11,954	2,976	18,315	98	33,351	4,617	307
Kansas	1,804	3,157	4,667	4,472	12,296	1,791	15,890	9,700	232
Kentucky	4,669	14,893	6,784	136,569	158,246	751	163,665	1,014	1,964
Michigan	6,091	14,221	12,187	21,739	48,148	-	54,239	16,556	1,713
Minnesota	4,795	15,139	11,646	22,531	49,315	316	54,426	15,695	65
Missouri	6,314	19,761	11,812	6,990	38,563	411	45,288	9,619	164
Nebraska	15,649	1,808	1,479	2,667	5,954	359	21,961	5,173	31
North Dakota	2,848	3,002	1,520	1,132	5,654	-	8,502	1,449	3
Ohio	719	40,273	10,402	21,502	72,178	277	73,174	39,615	5,862
Oklahoma	218	517	1,891	6,759	9,167	-	9,384	5,278	183
South Dakota	445	1,473	1,243	-	2,717	65	3,226	5,036	9
Tennessee	2,343	6,525	14,411	18,847	39,783	771	42,897	8,158	2,176
Wisconsin	9,653	24,191	14,981	15,207	54,379	144	64,176	30,465	364
<b>PAD District III Total</b>	<b>12,934</b>	<b>12,108</b>	<b>97,803</b>	<b>184,085</b>	<b>293,996</b>	<b>3,553</b>	<b>310,483</b>	<b>129,749</b>	<b>18,873</b>
Alabama	454	6,899	18,261	46,207	71,367	24	71,846	32,364	1,595
Arkansas	27	155	2,161	12,943	15,259	1,257	16,542	177	113
Louisiana	4	289	3,105	8,988	12,382	543	12,928	38,678	1,072
Mississippi	1,927	3,816	4,705	9,866	18,386	1,536	21,850	8,063	2,093
New Mexico	4,045	924	25,393	7,240	33,557	-	37,602	7,128	308
Texas	6,477	24	44,179	98,842	143,045	193	149,715	43,339	13,693
<b>PAD District IV Total</b>	<b>13,625</b>	<b>9,348</b>	<b>128,302</b>	<b>23,136</b>	<b>160,786</b>	<b>84</b>	<b>174,495</b>	<b>5,809</b>	<b>606</b>
Colorado	1,556	924	16,379	2,701	20,004	-	21,560	5	68
Idaho	4,552	233	9,711	11,653	21,598	-	26,149	65	135
Montana	1,660	515	12,036	868	13,419	-	15,079	500	5
Utah	1,332	1,729	22,206	6,913	30,848	-	32,180	4,918	135
Wyoming	4,524	5,947	67,969	1,002	74,918	84	79,526	321	262
<b>PAD District V Total</b>	<b>22,160</b>	<b>8,121</b>	<b>144,003</b>	<b>199,484</b>	<b>351,608</b>	<b>1,900</b>	<b>375,668</b>	<b>27,947</b>	<b>7,502</b>
Alaska	16,535	4,136	-	12,305	16,441	-	32,976	-	2
Arizona	2,946	-	28,211	64,501	92,712	-	95,658	1,030	167
California	109	1,085	47,180	17,909	66,174	1,900	68,183	1,597	6,637
Hawaii	-	76	590	1,324	1,990	-	1,990	515	6
Nevada	1,488	411	46,956	74,689	122,057	-	123,545	4,068	22
Oregon	923	1,283	13,589	21,597	36,469	-	37,392	7,328	543
Washington	159	1,129	7,478	7,159	15,765	-	15,925	13,409	126

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 1998.

• Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1998,

(DOE/EIA-0340(98)/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, 1998**  
(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
<b>U.S. Total</b>	<b>3,338,797</b>	<b>72,004</b>	<b>3,410,801</b>	<b>26,823</b>	<b>840,731</b>	<b>6,431,746</b>	<b>783,719</b>	<b>127,464</b>
<b>PAD District I Total</b>	<b>365,598</b>	<b>30,399</b>	<b>395,997</b>	<b>9,557</b>	<b>386,452</b>	<b>5,536,036</b>	<b>7,251</b>	<b>85,367</b>
<b>Subdistrict IA Total</b>	<b>13,639</b>	<b>5,317</b>	<b>18,956</b>	<b>1,224</b>	<b>13,508</b>	<b>1,461,444</b>	<b>100</b>	<b>234</b>
Connecticut	2,710	681	3,391	24	4,451	522,591	14	234
Maine	2,682	2,094	4,775	377	1,332	148,719	-	-
Massachusetts	1,969	945	2,914	49	4,388	729,754	80	-
New Hampshire	781	419	1,200	205	1,677	60,380	-	-
Rhode Island	31	25	56	-	1,226	-	-	-
Vermont	5,467	1,153	6,620	569	435	-	7	-
<b>Subdistrict IB Total</b>	<b>88,634</b>	<b>14,412</b>	<b>103,046</b>	<b>1,481</b>	<b>104,790</b>	<b>1,618,177</b>	<b>3,079</b>	<b>84,856</b>
Delaware	7,150	27	7,177	27	3,023	90,705	1,050	19,110
District of Columbia	-	-	-	-	18,818	-	-	-
Maryland	22,465	1,430	23,895	500	20,680	248,382	31	694
New Jersey	3,860	1,035	4,894	16	7,632	112,091	296	2,180
New York	32,670	6,951	39,621	277	3,309	999,720	768	798
Pennsylvania	22,489	4,969	27,458	662	51,329	167,278	934	62,075
<b>Subdistrict IC Total</b>	<b>263,325</b>	<b>10,670</b>	<b>273,995</b>	<b>6,851</b>	<b>268,153</b>	<b>2,456,416</b>	<b>4,072</b>	<b>277</b>
Florida	72,847	184	73,030	144	151,241	2,256,686	315	-
Georgia	109,881	1,000	110,881	640	40,377	6,373	324	-
North Carolina	32,642	2,608	35,250	1,651	27,539	-	136	-
South Carolina	13,171	4,080	17,251	364	27,258	8,121	5	120
Virginia	32,533	2,239	34,772	3,069	10,177	185,235	3,045	157
West Virginia	2,252	560	2,811	983	11,560	-	248	-
<b>PAD District II Total</b>	<b>1,644,917</b>	<b>36,831</b>	<b>1,681,748</b>	<b>14,671</b>	<b>220,686</b>	<b>118,977</b>	<b>46,185</b>	<b>19,559</b>
Illinois	213,932	3,694	217,627	2,187	43,150	35,128	822	-
Indiana	97,147	1,970	99,117	1,204	27,544	-	2,341	-
Iowa	201,379	3,488	204,867	1,063	7,466	-	-	-
Kansas	168,331	193	168,523	595	7,322	5,102	3,255	-
Kentucky	45,258	540	45,798	2,504	7,311	-	4,737	1,906
Michigan	49,673	4,046	53,719	281	24,720	74,610	2,293	4,515
Minnesota	166,806	7,043	173,849	942	5,905	2,301	284	2,925
Missouri	62,513	286	62,799	389	9,009	1,836	112	-
Nebraska	176,162	2,875	179,038	369	2,253	-	39	-
North Dakota	90,142	618	90,760	16	35,210	-	4,564	-
Ohio	84,111	4,306	88,418	4,166	30,957	-	1,584	5,047
Oklahoma	73,663	-	73,663	259	2,845	-	25,809	-
South Dakota	71,623	1,118	72,741	42	720	-	-	-
Tennessee	62,103	-	62,103	427	12,020	-	346	74
Wisconsin	82,073	6,654	88,726	226	4,254	-	-	5,092
<b>PAD District III Total</b>	<b>665,399</b>	<b>1,425</b>	<b>666,824</b>	<b>689</b>	<b>46,498</b>	<b>419,216</b>	<b>598,813</b>	<b>1,806</b>
Alabama	29,653	-	29,653	10	9,617	-	371	-
Arkansas	117,881	368	118,249	49	10,106	5,846	1,779	-
Louisiana	53,438	-	53,438	45	12,739	39,040	351,457	-
Mississippi	105,112	1,056	106,168	33	3,553	363,741	2,084	-
New Mexico	15,564	1	15,565	48	686	-	18,467	-
Texas	343,751	-	343,751	505	9,798	10,589	224,655	1,806
<b>PAD District IV Total</b>	<b>191,176</b>	<b>1,109</b>	<b>192,285</b>	<b>190</b>	<b>7,195</b>	<b>-</b>	<b>27,819</b>	<b>5,073</b>
Colorado	67,781	394	68,175	122	480	-	4,499	-
Idaho	38,247	122	38,369	39	25	-	-	-
Montana	50,550	555	51,106	2	-	-	1,601	5,073
Utah	20,738	10	20,748	11	3,080	-	5,072	-
Wyoming	13,860	27	13,888	16	3,610	-	16,646	-
<b>PAD District V Total</b>	<b>471,707</b>	<b>2,240</b>	<b>473,947</b>	<b>1,716</b>	<b>179,899</b>	<b>357,516</b>	<b>103,651</b>	<b>15,658</b>
Alaska	1	1	2	-	60,087	-	94,891	-
Arizona	25,951	218	26,169	19	3,022	-	96	-
California	335,225	-	335,225	428	7,868	-	6,052	28
Hawaii	9,392	-	9,392	-	106,517	357,147	1,274	15,585
Nevada	5,564	-	5,564	29	1,560	369	305	21
Oregon	31,477	1,684	33,161	124	392	-	242	-
Washington	64,097	337	64,435	1,116	453	-	790	24

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 1998.

• Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1998, (DOE/EIA-0340(98)/1).

**Table 11. Sales for Transportation Use: Distillate Fuel Oil and Residual Fuel Oil, 1998**  
(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
<b>U.S. Total</b>	<b>3,180,124</b>	<b>2,595,076</b>	<b>5,620,417</b>	<b>30,150,191</b>	<b>35,925,392</b>	<b>5,620,417</b>
<b>PAD District I Total</b>	<b>491,650</b>	<b>520,608</b>	<b>1,525,575</b>	<b>9,398,405</b>	<b>10,410,663</b>	<b>1,525,575</b>
<b>Subdistrict IA Total</b>	<b>29,317</b>	<b>47,876</b>	<b>10,855</b>	<b>942,889</b>	<b>1,020,082</b>	<b>10,855</b>
Connecticut	7,068	2,847	260	222,076	231,991	260
Maine	8,036	12,565	9,276	135,254	155,855	9,276
Massachusetts	12,805	19,787	937	357,050	389,642	937
New Hampshire	17	536	317	103,225	103,778	317
Rhode Island	270	11,641	65	48,713	60,624	65
Vermont	1,121	499	-	76,571	78,192	-
<b>Subdistrict IB Total</b>	<b>128,258</b>	<b>155,557</b>	<b>975,316</b>	<b>3,420,503</b>	<b>3,704,318</b>	<b>975,316</b>
Delaware	445	2,644	72,240	62,453	65,541	72,240
District of Columbia	4,672	3	-	21,412	26,087	-
Maryland	6,024	20,673	54,396	425,381	452,078	54,396
New Jersey	44,261	92,631	347,970	717,711	854,602	347,970
New York	24,067	4,899	211,902	917,161	946,128	211,902
Pennsylvania	48,789	34,707	288,807	1,276,385	1,359,881	288,807
<b>Subdistrict IC Total</b>	<b>334,075</b>	<b>317,174</b>	<b>539,405</b>	<b>5,035,013</b>	<b>5,686,263</b>	<b>539,405</b>
Florida	106,370	161,733	403,968	1,182,855	1,450,957	403,968
Georgia	76,415	10,528	48,114	1,231,023	1,317,965	48,114
North Carolina	45,996	36,183	7,144	892,816	974,995	7,144
South Carolina	16,635	13,937	17,411	563,590	594,162	17,411
Virginia	68,093	29,752	62,769	895,185	993,030	62,769
West Virginia	20,568	65,042	-	269,544	355,154	-
<b>PAD District II Total</b>	<b>1,324,803</b>	<b>624,376</b>	<b>25,733</b>	<b>10,205,834</b>	<b>12,155,013</b>	<b>25,733</b>
Illinois	110,860	44,684	1,473	1,077,513	1,233,057	1,473
Indiana	68,949	27,349	15,965	1,129,693	1,225,991	15,965
Iowa	48,021	7,595	-	479,789	535,405	-
Kansas	80,810	-	-	372,593	453,403	-
Kentucky	102,663	95,612	-	690,621	888,895	-
Michigan	55,047	8,241	4,326	865,113	928,401	4,326
Minnesota	96,950	4,028	-	546,107	647,085	-
Missouri	30,118	363,176	212	933,682	1,326,976	212
Nebraska	220,015	39	-	360,777	580,831	-
North Dakota	19,930	544	-	142,612	163,086	-
Ohio	147,847	9,191	3,035	1,412,948	1,569,986	3,035
Oklahoma	208,606	548	-	566,471	775,624	-
South Dakota	1,351	-	-	141,809	143,160	-
Tennessee	101,523	60,662	-	821,331	983,515	-
Wisconsin	32,115	2,708	722	664,775	699,598	722
<b>PAD District III Total</b>	<b>676,222</b>	<b>1,098,953</b>	<b>2,465,867</b>	<b>5,125,135</b>	<b>6,900,310</b>	<b>2,465,867</b>
Alabama	43,176	28,847	43,593	701,742	773,766	43,593
Arkansas	62,776	5,549	-	560,831	629,156	-
Louisiana	31,054	663,667	1,068,698	541,189	1,235,910	1,068,698
Mississippi	23,277	25,392	54,858	494,855	543,523	54,858
New Mexico	13,874	-	-	393,110	406,984	-
Texas	502,065	375,498	1,298,719	2,433,408	3,310,971	1,298,719
<b>PAD District IV Total</b>	<b>277,361</b>	<b>170</b>	<b>-</b>	<b>1,303,954</b>	<b>1,581,485</b>	<b>-</b>
Colorado	62,169	-	-	383,801	445,970	-
Idaho	34,231	170	-	184,607	219,008	-
Montana	63,079	-	-	171,675	234,754	-
Utah	26,672	-	-	303,331	330,003	-
Wyoming	91,211	-	-	260,540	351,751	-
<b>PAD District V Total</b>	<b>410,088</b>	<b>350,970</b>	<b>1,603,242</b>	<b>4,116,863</b>	<b>4,877,921</b>	<b>1,603,242</b>
Alaska	5,111	116,596	375	68,548	190,255	375
Arizona	2,901	-	-	602,809	605,710	-
California	262,435	119,358	900,261	2,339,261	2,721,055	900,261
Hawaii	-	23,112	19,330	28,956	52,068	19,330
Nevada	4,876	-	-	228,955	233,831	-
Oregon	62,391	17,512	193,131	418,953	498,856	193,131
Washington	72,373	74,391	490,146	429,381	576,146	490,146

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 1998.

• 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, 1998**  
(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
<b>U.S. Total</b>	<b>325,527</b>	<b>26,661</b>	<b>352,189</b>	<b>33,648</b>	<b>1,989,058</b>	<b>488,142</b>	<b>2,477,199</b>	-	<b>3,549</b>	<b>13,420</b>
<b>PAD District I Total</b>	<b>26,513</b>	<b>14,348</b>	<b>40,860</b>	<b>26,095</b>	<b>513,113</b>	<b>127,631</b>	<b>640,744</b>	-	<b>3,460</b>	<b>7,916</b>
<b>Subdistrict IA Total</b>	<b>2,299</b>	<b>1,556</b>	<b>3,855</b>	<b>6,651</b>	<b>47,383</b>	<b>16,763</b>	<b>64,146</b>	-	<b>426</b>	<b>424</b>
Connecticut	100	781	881	481	7,118	737	7,854	-	136	18
Maine	302	705	1,007	5,543	11,103	10,964	22,066	-	290	74
Massachusetts	476	50	525	627	18,870	1,281	20,151	-	-	24
New Hampshire	554	-	554	-	5,297	2,924	8,221	-	-	165
Rhode Island	738	11	749	-	2,701	272	2,972	-	-	36
Vermont	130	9	138	-	2,296	585	2,881	-	-	107
<b>Subdistrict IB Total</b>	<b>4,922</b>	<b>9,864</b>	<b>14,786</b>	<b>10,102</b>	<b>163,683</b>	<b>10,262</b>	<b>173,945</b>	-	-	<b>2,580</b>
Delaware	670	490	1,160	165	5,826	127	5,954	-	-	2
District of Columbia	90	72	162	-	460	-	460	-	-	-
Maryland	1,555	1,886	3,441	5,810	25,160	1,487	26,647	-	-	39
New Jersey	1,013	18	1,030	3,333	37,816	3,287	41,103	-	-	127
New York	297	368	666	400	47,381	1,799	49,180	-	-	887
Pennsylvania	1,297	7,030	8,327	395	47,040	3,563	50,602	-	-	1,526
<b>Subdistrict IC Total</b>	<b>19,291</b>	<b>2,928</b>	<b>22,219</b>	<b>9,342</b>	<b>302,047</b>	<b>100,606</b>	<b>402,653</b>	-	<b>3,034</b>	<b>4,912</b>
Florida	4,649	-	4,649	406	101,888	12,203	114,091	-	2,503	3,418
Georgia	2,023	-	2,023	-	41,149	31,621	72,770	-	-	52
North Carolina	1,758	-	1,758	648	82,234	9,916	92,151	-	531	246
South Carolina	2,602	921	3,523	4,663	24,835	23,141	47,976	-	-	53
Virginia	8,157	2,007	10,165	3,625	46,250	19,527	65,776	-	-	1,057
West Virginia	102	-	102	-	5,691	4,198	9,889	-	-	86
<b>PAD District II Total</b>	<b>15,964</b>	<b>2,052</b>	<b>18,016</b>	<b>726</b>	<b>576,668</b>	<b>108,739</b>	<b>685,408</b>	-	<b>19</b>	<b>2,292</b>
Illinois	1,495	25	1,520	468	74,770	2,445	77,215	-	-	124
Indiana	97	255	352	-	30,549	16,088	46,637	-	-	180
Iowa	304	-	304	-	42,414	8,014	50,428	-	-	50
Kansas	429	-	429	140	23,110	2,218	25,328	-	-	160
Kentucky	1,268	441	1,709	-	37,704	6,747	44,451	-	-	144
Michigan	279	-	279	-	52,543	18,256	70,799	-	19	86
Minnesota	293	-	293	-	38,525	9,512	48,036	-	-	94
Missouri	787	-	787	-	48,324	9,693	58,016	-	-	89
Nebraska	1,187	-	1,187	-	17,298	2,354	19,652	-	-	45
North Dakota	532	93	625	-	7,726	1,007	8,732	-	-	18
Ohio	266	-	266	-	65,976	6,671	72,646	-	-	1,008
Oklahoma	541	-	541	118	34,082	3,271	37,353	-	-	74
South Dakota	329	302	632	-	6,777	1,251	8,028	-	-	-
Tennessee	1,746	185	1,931	-	57,506	11,842	69,348	-	-	153
Wisconsin	6,412	750	7,162	-	39,365	9,373	48,738	-	-	66
<b>PAD District III Total</b>	<b>169,412</b>	<b>319</b>	<b>169,731</b>	<b>1,361</b>	<b>494,618</b>	<b>106,941</b>	<b>601,559</b>	-	<b>37</b>	<b>2,338</b>
Alabama	813	-	813	-	26,519	35,266	61,786	-	-	55
Arkansas	558	319	877	-	20,098	10,921	31,019	-	-	561
Louisiana	1,723	-	1,723	-	112,931	7,711	120,641	-	-	1,244
Mississippi	3,634	-	3,634	-	26,303	21,500	47,803	-	-	66
New Mexico	1,280	-	1,280	-	9,928	1,699	11,627	-	37	17
Texas	161,404	-	161,404	1,361	298,839	29,843	328,682	-	-	394
<b>PAD District IV Total</b>	<b>2,095</b>	<b>880</b>	<b>2,975</b>	<b>-</b>	<b>121,986</b>	<b>27,485</b>	<b>149,471</b>	-	<b>33</b>	<b>293</b>
Colorado	1,076	-	1,076	-	50,197	3,420	53,617	-	-	280
Idaho	102	-	102	-	13,722	11,300	25,023	-	2	-
Montana	218	-	218	-	11,238	6,827	18,065	-	-	-
Utah	667	880	1,547	-	35,667	2,448	38,115	-	26	5
Wyoming	31	-	31	-	11,161	3,489	14,650	-	5	8
<b>PAD District V Total</b>	<b>111,544</b>	<b>9,062</b>	<b>120,606</b>	<b>5,466</b>	<b>282,672</b>	<b>117,345</b>	<b>400,017</b>	-	-	<b>580</b>
Alaska	6,738	6,418	13,156	-	9,016	20,996	30,011	-	-	1
Arizona	587	-	587	-	33,934	3,133	37,066	-	-	95
California	25,740	521	26,261	1,662	129,522	25,318	154,840	-	-	241
Hawaii	2,496	-	2,496	896	12,047	955	13,003	-	-	-
Nevada	1,306	-	1,306	-	10,897	1,695	12,592	-	-	1
Oregon	191	-	191	-	13,520	31,312	44,832	-	-	97
Washington	74,486	2,123	76,609	2,909	73,737	33,937	107,673	-	-	146

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 1998.

• Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1998, (DOE/EIA-0340(98)/1).

## Adjusted Sales of Fuel Oil and Kerosene in 1998

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 1994 through 1998 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 3.0 percent from 65.9 billion gallons in 1997 to 67.9 billion gallons in 1998. Adjusted sales of distillate, residual fuel oil and kerosene increased 0.8, 11.3 and 18.5 percent, respectively, in 1998.

**Table 13. Adjusted Sales of Distillate Fuel Oil by End Use in the United States: 1994-1998**  
(Thousand Gallons)

End Use	Distillate Fuel Oil				
	1994	1995	1996	1997	1998
U.S. Total .....	48,477,156	49,157,598	51,730,518	52,665,438	53,063,934
Residential .....	6,335,853	6,370,381	6,707,714	6,487,768	5,633,409
Commercial .....	3,343,090	3,318,818	3,433,555	3,218,497	3,044,495
Industrial .....	2,091,611	2,027,409	2,107,190	2,167,169	2,258,248
Oil Company .....	703,946	556,126	625,608	632,595	565,174
Farm .....	3,198,640	3,230,765	3,334,420	3,304,531	3,033,405
Electric Utility .....	755,219	601,185	684,263	646,778	962,921
Railroad .....	3,063,441	3,191,023	3,266,861	3,067,400	2,833,276
Vessel Bunkering .....	2,026,899	1,978,105	2,177,608	2,107,561	2,125,568
On-Highway Diesel .....	24,442,609	25,576,433	26,958,668	28,614,022	30,150,191
Military .....	526,563	368,219	371,093	337,390	277,688
Off-Highway Diesel .....	1,988,481	1,939,133	2,063,538	2,081,728	2,179,560
All Other .....	804	-	-	-	-

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 1994-1998.

• 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, 1994-1998, (DOE/EIA-0340(94)/1 - (98)/1).

**Table 14. Adjusted Sales of Residual Fuel Oil by End Use in the United States: 1994-1998**  
(Thousand Gallons)

End Use	Residual Fuel Oil				
	1994	1995	1996	1997	1998
<b>U.S. Total</b> .....	<b>15,648,654</b>	<b>13,058,262</b>	<b>13,041,042</b>	<b>12,213,390</b>	<b>13,599,558</b>
Commercial .....	1,171,495	1,007,962	944,717	754,967	590,388
Industrial .....	2,579,494	2,160,606	2,127,457	1,815,165	1,484,331
Oil Company .....	267,921	231,022	170,471	153,424	105,233
Electric Utility .....	5,609,752	3,164,462	3,925,629	4,655,775	6,748,744
Vessel Bunkering .....	5,944,838	6,431,238	5,804,977	4,789,861	4,640,153
Military .....	68,368	55,614	57,249	40,311	27,779
All Other .....	6,745	7,359	10,542	3,886	2,930

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 1994-1998.

• 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, 1994-1998, (DOE/EIA-0340(94)/1 - (98)/1).

**Table 15. Adjusted Sales of Kerosene by End Use in the United States: 1994-1998**  
(Thousand Gallons)

End Use	Kerosene				
	1994	1995	1996	1997	1998
<b>U.S. Total</b> .....	<b>750,330</b>	<b>828,450</b>	<b>948,990</b>	<b>1,009,932</b>	<b>1,196,580</b>
Residential .....	480,916	550,336	657,636	688,025	802,348
Commercial .....	144,142	163,716	155,792	182,559	230,743
Industrial .....	86,629	86,902	102,322	110,738	123,246
Farm .....	27,686	19,919	26,017	21,556	26,823
All Other .....	10,957	7,576	7,223	7,054	13,420

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, 1994-1998, (DOE/EIA-0340(94)/1 - (98)/1).

**Table 16. Adjusted Sales of Distillate Fuel Oil by End Use, 1997 and 1998**

(Thousand Gallons)

Destination	Residential		Commercial		Industrial	
	1997	1998	1997	1998	1997	1998
<b>U.S. Total</b> .....	<b>6,487,768</b>	<b>5,633,409</b>	<b>3,218,497</b>	<b>3,044,495</b>	<b>2,167,169</b>	<b>2,258,248</b>
<b>PAD District I Total</b> .....	<b>5,430,114</b>	<b>4,783,009</b>	<b>2,149,556</b>	<b>1,967,367</b>	<b>725,286</b>	<b>758,267</b>
<b>Subdistrict IA Total</b> .....	<b>2,133,604</b>	<b>1,933,505</b>	<b>601,436</b>	<b>580,952</b>	<b>101,021</b>	<b>96,280</b>
Connecticut .....	561,107	473,268	127,174	112,564	25,772	22,405
Maine .....	320,965	323,193	101,863	117,608	28,695	31,715
Massachusetts .....	794,329	726,585	246,015	231,260	21,784	20,701
New Hampshire .....	200,855	184,820	57,418	52,849	6,118	6,822
Rhode Island .....	156,304	139,718	32,155	26,526	11,356	7,701
Vermont .....	100,043	85,921	36,811	40,144	7,295	6,936
<b>Subdistrict IB Total</b> .....	<b>2,863,086</b>	<b>2,454,172</b>	<b>1,121,148</b>	<b>972,927</b>	<b>206,444</b>	<b>251,521</b>
Delaware .....	39,221	34,429	14,665	12,392	8,300	4,628
District of Columbia .....	11,184	10,065	21,920	13,618	284	292
Maryland .....	217,332	184,602	107,495	109,341	25,745	67,230
New Jersey .....	492,256	390,578	147,583	130,999	39,437	40,574
New York .....	1,272,482	1,139,875	621,215	509,850	42,399	41,789
Pennsylvania .....	830,611	694,622	208,269	196,727	90,280	97,008
<b>Subdistrict IC Total</b> .....	<b>433,424</b>	<b>395,332</b>	<b>426,973</b>	<b>413,488</b>	<b>417,821</b>	<b>410,465</b>
Florida .....	6,295	4,660	77,364	59,595	45,437	53,374
Georgia .....	3,423	4,001	37,643	30,633	41,972	45,231
North Carolina .....	148,458	128,080	123,977	110,584	81,572	82,075
South Carolina .....	23,172	20,341	45,460	64,282	20,971	23,294
Virginia .....	225,927	214,843	128,845	132,544	115,887	88,685
West Virginia .....	26,149	23,407	13,684	15,849	111,983	117,805
<b>PAD District II Total</b> .....	<b>811,985</b>	<b>620,486</b>	<b>610,444</b>	<b>560,518</b>	<b>706,703</b>	<b>774,998</b>
Illinois .....	31,498	17,267	98,086	76,959	84,135	115,874
Indiana .....	56,231	43,583	48,686	58,794	76,975	103,693
Iowa .....	32,232	22,736	14,242	19,137	16,503	31,388
Kansas .....	1,572	472	21,047	18,227	12,417	14,954
Kentucky .....	29,257	24,176	41,550	43,758	173,847	154,029
Michigan .....	162,886	109,667	85,252	62,241	44,609	51,046
Minnesota .....	130,432	105,059	38,852	34,828	42,829	51,221
Missouri .....	13,830	12,150	51,995	47,946	35,066	42,621
Nebraska .....	4,006	2,671	7,338	9,162	4,494	20,668
North Dakota .....	26,774	21,976	11,443	11,122	8,835	8,002
Ohio .....	147,915	119,569	62,374	46,456	79,096	68,865
Oklahoma .....	157	51	25,192	25,585	8,532	8,832
South Dakota .....	20,585	15,802	11,693	9,802	4,315	3,036
Tennessee .....	10,523	9,517	36,776	39,234	48,822	40,371
Wisconsin .....	144,087	115,792	55,918	57,267	66,226	60,397
<b>PAD District III Total</b> .....	<b>1,319</b>	<b>310</b>	<b>120,683</b>	<b>138,454</b>	<b>217,037</b>	<b>203,760</b>
Alabama .....	1,199	172	16,097	16,344	40,526	47,150
Arkansas .....	21	15	8,100	10,322	15,955	10,856
Louisiana .....	3	29	9,322	8,723	13,375	8,484
Mississippi .....	11	30	9,884	10,536	27,449	14,339
New Mexico .....	80	57	5,059	3,984	29,094	24,677
Texas .....	5	8	72,220	88,545	90,639	98,253
<b>PAD District IV Total</b> .....	<b>72,768</b>	<b>42,623</b>	<b>113,340</b>	<b>98,835</b>	<b>200,600</b>	<b>190,151</b>
Colorado .....	2,878	889	49,802	41,516	24,853	23,495
Idaho .....	24,258	17,823	19,600	19,720	32,501	28,496
Montana .....	38,233	19,343	9,031	5,454	27,654	16,432
Utah .....	4,898	3,356	22,654	25,077	29,082	35,067
Wyoming .....	2,502	1,212	12,254	7,067	86,510	86,661
<b>PAD District V Total</b> .....	<b>171,582</b>	<b>186,981</b>	<b>224,474</b>	<b>279,321</b>	<b>317,542</b>	<b>331,073</b>
Alaska .....	61,023	64,704	31,258	41,337	25,282	29,061
Arizona .....	239	173	21,607	43,413	89,119	84,303
California .....	5,245	6,534	82,090	102,852	46,881	60,089
Hawaii .....	15	13	12,943	8,149	2,053	1,754
Nevada .....	8,586	10,550	9,301	11,942	112,627	108,879
Oregon .....	35,371	36,999	31,394	38,487	29,395	32,953
Washington .....	61,102	68,008	35,881	33,142	12,184	14,034

See footnotes at end of table.

**Table 16. Adjusted Sales of Distillate Fuel Oil by End Use, 1997 and 1998 (Continued)**

(Thousand Gallons)

Destination	Oil Company		Farm		Electric Utility	
	1997	1998	1997	1998	1997	1998
<b>U.S. Total</b> .....	<b>632,595</b>	<b>565,174</b>	<b>3,304,531</b>	<b>3,033,405</b>	<b>646,778</b>	<b>962,921</b>
<b>PAD District I Total</b> .....	<b>8,024</b>	<b>7,065</b>	<b>388,999</b>	<b>385,841</b>	<b>243,039</b>	<b>442,618</b>
<b>Subdistrict IA Total</b> .....	<b>378</b>	<b>98</b>	<b>17,637</b>	<b>18,470</b>	<b>15,536</b>	<b>15,471</b>
Connecticut .....	119	14	3,080	3,304	2,470	5,097
Maine .....	-	-	4,205	4,653	1,582	1,526
Massachusetts .....	255	78	3,531	2,839	7,639	5,026
New Hampshire .....	-	-	1,273	1,169	2,736	1,921
Rhode Island .....	1	-	111	55	906	1,404
Vermont .....	3	7	5,438	6,450	204	498
<b>Subdistrict IB Total</b> .....	<b>3,684</b>	<b>3,000</b>	<b>104,897</b>	<b>100,403</b>	<b>89,626</b>	<b>120,020</b>
Delaware .....	1,662	1,023	5,361	6,993	3,158	3,462
District of Columbia .....	-	-	-	-	13,001	21,553
Maryland .....	44	31	25,122	23,283	27,289	23,686
New Jersey .....	461	289	6,209	4,769	7,290	8,741
New York .....	738	748	35,687	38,605	9,464	3,789
Pennsylvania .....	778	910	32,519	26,753	29,424	58,789
<b>Subdistrict IC Total</b> .....	<b>3,962</b>	<b>3,967</b>	<b>266,465</b>	<b>266,969</b>	<b>137,877</b>	<b>307,126</b>
Florida .....	568	306	81,189	71,157	65,736	173,222
Georgia .....	763	315	88,765	108,037	11,884	46,246
North Carolina .....	191	132	33,284	34,346	16,213	31,541
South Carolina .....	1	4	20,899	16,809	22,165	31,220
Virginia .....	2,131	2,967	39,248	33,880	9,082	11,657
West Virginia .....	307	242	3,080	2,739	12,796	13,240
<b>PAD District II Total</b> .....	<b>50,765</b>	<b>43,466</b>	<b>1,774,798</b>	<b>1,582,727</b>	<b>177,559</b>	<b>252,760</b>
Illinois .....	1,600	774	214,122	204,813	34,226	49,421
Indiana .....	4,495	2,203	103,494	93,281	27,206	31,547
Iowa .....	-	-	216,459	192,804	3,419	8,552
Kansas .....	5,975	3,064	187,045	158,601	5,296	8,386
Kentucky .....	618	4,458	42,323	43,102	9,159	8,374
Michigan .....	2,114	2,158	58,347	50,556	23,834	28,313
Minnesota .....	26	267	191,087	163,613	6,563	6,763
Missouri .....	84	105	62,349	59,101	6,847	10,318
Nebraska .....	1,059	37	186,429	168,496	2,444	2,580
North Dakota .....	3,692	4,295	96,028	85,416	5,533	40,327
Ohio .....	1,487	1,491	95,490	83,212	27,073	35,456
Oklahoma .....	29,362	24,289	75,658	69,326	869	3,258
South Dakota .....	190	-	78,569	68,458	5	825
Tennessee .....	64	326	74,792	58,446	14,062	13,767
Wisconsin .....	-	-	92,604	83,502	11,024	4,873
<b>PAD District III Total</b> .....	<b>459,986</b>	<b>392,981</b>	<b>478,181</b>	<b>437,615</b>	<b>48,406</b>	<b>53,256</b>
Alabama .....	6,237	243	25,151	19,460	6,285	11,014
Arkansas .....	1,288	1,168	78,928	77,603	5,886	11,575
Louisiana .....	237,031	230,650	37,911	35,070	14,779	14,590
Mississippi .....	1,072	1,368	74,937	69,675	2,557	4,070
New Mexico .....	16,389	12,120	9,680	10,215	1,310	786
Texas .....	197,969	147,434	251,575	225,592	17,588	11,222
<b>PAD District IV Total</b> .....	<b>44,047</b>	<b>30,315</b>	<b>272,160</b>	<b>209,537</b>	<b>7,084</b>	<b>8,241</b>
Colorado .....	7,708	4,903	86,138	74,291	451	550
Idaho .....	1	-	62,850	41,812	34	29
Montana .....	2,237	1,745	78,837	55,691	15	-
Utah .....	6,765	5,528	25,600	22,610	2,450	3,528
Wyoming .....	27,336	18,140	18,735	15,134	4,134	4,134
<b>PAD District V Total</b> .....	<b>69,773</b>	<b>91,346</b>	<b>390,392</b>	<b>417,685</b>	<b>170,691</b>	<b>206,046</b>
Alaska .....	62,793	83,626	2	2	56,410	68,820
Arizona .....	71	85	24,093	23,062	3,309	3,461
California .....	4,036	5,334	276,302	295,431	6,602	9,012
Hawaii .....	1,442	1,123	5,409	8,277	102,024	121,998
Nevada .....	383	269	5,049	4,903	1,738	1,787
Oregon .....	94	213	34,006	29,224	448	449
Washington .....	954	697	45,531	56,786	159	519

See footnotes at end of table.

**Table 16. Adjusted Sales of Distillate Fuel Oil by End Use, 1997 and 1998 (Continued)**

(Thousand Gallons)

Destination	Railroad		Vessel Bunkering		On-Highway	
	1997	1998	1997	1998	1997	1998
<b>U.S. Total</b> .....	<b>3,067,400</b>	<b>2,833,276</b>	<b>2,107,561</b>	<b>2,125,568</b>	<b>28,614,022</b>	<b>30,150,191</b>
<b>PAD District I Total</b> .....	<b>537,406</b>	<b>479,042</b>	<b>502,983</b>	<b>507,256</b>	<b>8,951,981</b>	<b>9,398,405</b>
<b>Subdistrict IA Total</b> .....	<b>25,145</b>	<b>28,566</b>	<b>61,326</b>	<b>46,648</b>	<b>913,558</b>	<b>942,889</b>
Connecticut .....	8,320	6,887	3,254	2,774	216,062	222,076
Maine .....	6,197	7,830	12,513	12,243	138,527	135,254
Massachusetts .....	9,702	12,476	33,437	19,280	344,131	357,050
New Hampshire .....	127	17	385	522	<sup>E</sup> 64,481	103,225
Rhode Island .....	126	263	11,272	11,343	72,916	48,713
Vermont .....	672	1,092	465	487	77,441	76,571
<b>Subdistrict IB Total</b> .....	<b>143,640</b>	<b>124,968</b>	<b>143,559</b>	<b>151,568</b>	<b>3,306,771</b>	<b>3,420,503</b>
Delaware .....	432	433	2,142	2,576	63,187	62,453
District of Columbia .....	5,200	4,552	-	3	21,572	21,412
Maryland .....	30,929	5,870	11,789	20,143	370,944	425,381
New Jersey .....	53,852	43,126	104,768	90,255	<sup>E</sup> 633,028	717,711
New York .....	8,972	23,450	5,166	4,774	<sup>E</sup> 977,851	917,161
Pennsylvania .....	44,256	47,538	19,694	33,817	1,240,189	1,276,385
<b>Subdistrict IC Total</b> .....	<b>368,620</b>	<b>325,508</b>	<b>298,097</b>	<b>309,040</b>	<b>4,731,652</b>	<b>5,035,013</b>
Florida .....	73,735	103,642	148,368	157,585	1,177,788	1,182,855
Georgia .....	100,179	74,455	12,019	10,258	1,185,844	1,231,023
North Carolina .....	69,026	44,816	28,110	35,255	854,189	892,816
South Carolina .....	14,322	16,209	15,530	13,579	484,503	563,590
Virginia .....	93,432	66,346	27,220	28,989	832,903	895,185
West Virginia .....	17,926	20,040	66,851	63,374	<sup>E</sup> 196,425	269,544
<b>PAD District II Total</b> .....	<b>1,372,891</b>	<b>1,246,799</b>	<b>461,014</b>	<b>587,612</b>	<b>9,659,243</b>	<b>10,205,834</b>
Illinois .....	149,632	104,333	44,690	42,053	936,299	1,077,513
Indiana .....	107,950	64,889	41,333	25,739	1,121,011	1,129,693
Iowa .....	54,010	45,193	6,244	7,148	457,122	479,789
Kansas .....	90,780	76,052	-	-	<sup>E</sup> 364,088	372,593
Kentucky .....	99,640	96,618	111,996	89,982	683,925	690,621
Michigan .....	48,844	51,806	5,947	7,755	808,162	865,113
Minnesota .....	74,410	91,241	3,059	3,791	502,305	546,107
Missouri .....	27,238	28,345	182,450	341,792	814,212	933,682
Nebraska .....	201,598	207,061	75	36	316,626	360,777
North Dakota .....	46,732	18,756	-	512	145,436	142,612
Ohio .....	165,583	139,142	5,878	8,650	1,400,649	1,412,948
Oklahoma .....	173,552	196,323	170	515	562,915	566,471
South Dakota .....	1,901	1,271	-	-	140,377	141,809
Tennessee .....	89,659	95,545	57,016	57,090	776,452	821,331
Wisconsin .....	41,363	30,224	2,156	2,548	629,664	664,775
<b>PAD District III Total</b> .....	<b>468,499</b>	<b>443,782</b>	<b>824,577</b>	<b>721,207</b>	<b>4,738,216</b>	<b>5,125,135</b>
Alabama .....	34,278	28,335	47,654	18,932	656,302	701,742
Arkansas .....	37,296	41,198	2,098	3,642	532,548	560,831
Louisiana .....	17,575	20,380	535,892	435,543	525,902	541,189
Mississippi .....	19,909	15,276	27,934	16,664	431,389	494,855
New Mexico .....	18,106	9,105	-	-	341,429	393,110
Texas .....	341,335	329,489	210,998	246,427	2,250,646	2,433,408
<b>PAD District IV Total</b> .....	<b>357,683</b>	<b>302,246</b>	<b>251</b>	<b>185</b>	<b>1,224,729</b>	<b>1,303,954</b>
Colorado .....	62,064	67,747	-	-	291,105	383,801
Idaho .....	37,309	37,302	229	185	<sup>E</sup> 202,725	184,607
Montana .....	89,685	68,739	-	-	<sup>E</sup> 178,706	171,675
Utah .....	47,036	29,065	22	-	293,452	303,331
Wyoming .....	121,589	99,394	-	-	258,741	260,540
<b>PAD District V Total</b> .....	<b>330,922</b>	<b>361,407</b>	<b>318,736</b>	<b>309,307</b>	<b>4,039,853</b>	<b>4,116,863</b>
Alaska .....	3,736	4,504	106,832	102,755	<sup>E</sup> 68,374	68,548
Arizona .....	2,759	2,557	20	-	<sup>E</sup> 557,464	602,809
California .....	189,739	231,282	124,356	105,189	2,288,069	2,339,261
Hawaii .....	-	-	15,038	20,368	28,487	28,956
Nevada .....	6,645	4,297	-	-	221,981	228,955
Oregon .....	67,519	54,985	10,854	15,434	<sup>E</sup> 408,624	418,953
Washington .....	60,523	63,782	61,637	65,560	466,854	429,381

See footnotes at end of table.

**Table 16. Adjusted Sales of Distillate Fuel Oil by End Use, 1997 and 1998 (Continued)**

(Thousand Gallons)

Destination	Military		Off-Highway		All Other		Total	
	1997	1998	1997	1998	1997	1998	1997	1998
<b>U.S. Total</b> .....	<b>337,390</b>	<b>277,688</b>	<b>2,081,728</b>	<b>2,179,560</b>	-	-	<b>52,665,438</b>	<b>53,063,934</b>
<b>PAD District I Total</b> .....	<b>57,268</b>	<b>39,813</b>	<b>598,261</b>	<b>624,312</b>	-	-	<b>19,592,916</b>	<b>19,392,996</b>
<b>Subdistrict IA Total</b> .....	<b>6,480</b>	<b>3,756</b>	<b>64,151</b>	<b>62,501</b>	-	-	<b>3,940,272</b>	<b>3,729,136</b>
Connecticut .....	3,745	858	7,729	7,653	-	-	958,833	856,900
Maine .....	794	981	21,376	21,500	-	-	636,717	656,504
Massachusetts .....	1,719	512	23,386	19,634	-	-	1,485,929	1,395,441
New Hampshire .....	-	540	6,085	8,010	-	-	339,478	359,895
Rhode Island .....	93	730	3,352	2,896	-	-	288,593	239,348
Vermont .....	128	135	2,222	2,807	-	-	230,723	221,049
<b>Subdistrict IB Total</b> .....	<b>23,567</b>	<b>14,407</b>	<b>164,791</b>	<b>169,485</b>	-	-	<b>8,171,212</b>	<b>7,782,975</b>
Delaware .....	456	1,130	4,265	5,801	-	-	142,849	135,320
District of Columbia .....	134	158	607	449	-	-	73,903	72,103
Maryland .....	9,416	3,353	23,216	25,963	-	-	849,321	888,883
New Jersey .....	1,236	1,004	31,401	40,049	-	-	1,517,521	1,468,093
New York .....	1,637	649	47,786	47,918	-	-	3,023,396	2,728,609
Pennsylvania .....	10,688	8,113	57,516	49,305	-	-	2,564,222	2,489,968
<b>Subdistrict IC Total</b> .....	<b>27,221</b>	<b>21,650</b>	<b>369,320</b>	<b>392,327</b>	-	-	<b>7,481,432</b>	<b>7,880,885</b>
Florida .....	5,402	4,530	121,537	111,165	-	-	1,803,418	1,922,092
Georgia .....	2,331	1,971	79,636	70,904	-	-	1,564,457	1,623,075
North Carolina .....	1,476	1,713	59,077	89,787	-	-	1,415,573	1,451,147
South Carolina .....	2,991	3,433	42,041	46,746	-	-	692,056	799,507
Virginia .....	14,978	9,904	59,255	64,090	-	-	1,548,908	1,549,089
West Virginia .....	44	99	7,773	9,635	-	-	457,020	535,975
<b>PAD District II Total</b> .....	<b>22,817</b>	<b>16,955</b>	<b>670,502</b>	<b>645,051</b>	-	-	<b>16,318,722</b>	<b>16,537,206</b>
Illinois .....	1,276	1,430	60,989	72,669	-	-	1,656,552	1,763,105
Indiana .....	384	331	38,705	43,891	-	-	1,626,470	1,597,644
Iowa .....	2,344	286	55,044	47,459	-	-	857,618	854,491
Kansas .....	1,172	404	28,888	23,836	-	-	718,280	676,590
Kentucky .....	1,560	1,609	35,974	41,834	-	-	1,229,849	1,198,558
Michigan .....	381	262	72,252	66,631	-	-	1,312,628	1,295,547
Minnesota .....	386	276	50,917	45,208	-	-	1,040,868	1,048,375
Missouri .....	1,220	740	60,428	54,600	-	-	1,255,718	1,531,401
Nebraska .....	634	1,117	16,912	18,495	-	-	741,617	791,101
North Dakota .....	694	588	7,659	8,218	-	-	352,826	341,824
Ohio .....	227	250	78,411	68,369	-	-	2,064,183	1,984,408
Oklahoma .....	936	509	40,468	35,153	-	-	917,811	930,313
South Dakota .....	2,467	594	8,346	7,555	-	-	268,448	249,154
Tennessee .....	1,388	1,817	69,066	65,265	-	-	1,178,622	1,202,708
Wisconsin .....	7,746	6,741	46,444	45,868	-	-	1,097,231	1,071,986
<b>PAD District III Total</b> .....	<b>116,754</b>	<b>111,389</b>	<b>330,406</b>	<b>394,783</b>	-	-	<b>7,804,062</b>	<b>8,022,672</b>
Alabama .....	680	534	60,135	40,548	-	-	894,543	884,473
Arkansas .....	800	576	23,590	20,357	-	-	706,509	738,141
Louisiana .....	12,543	1,131	88,130	79,173	-	-	1,492,464	1,374,961
Mississippi .....	3,517	2,385	35,651	31,371	-	-	634,310	660,568
New Mexico .....	1,571	840	7,161	7,631	-	-	429,880	462,524
Texas .....	97,642	105,924	115,739	215,703	-	-	3,646,357	3,902,005
<b>PAD District IV Total</b> .....	<b>3,774</b>	<b>3,242</b>	<b>178,036</b>	<b>162,881</b>	-	-	<b>2,474,472</b>	<b>2,352,210</b>
Colorado .....	1,114	1,173	52,046	58,428	-	-	578,159	656,793
Idaho .....	488	111	35,912	27,268	-	-	415,908	357,353
Montana .....	249	238	26,478	19,686	-	-	451,125	359,002
Utah .....	1,885	1,686	39,235	41,535	-	-	473,079	470,782
Wyoming .....	37	33	24,365	15,965	-	-	556,202	508,280
<b>PAD District V Total</b> .....	<b>136,777</b>	<b>106,289</b>	<b>304,523</b>	<b>352,532</b>	-	-	<b>6,475,266</b>	<b>6,758,850</b>
Alaska .....	2,656	11,594	30,168	26,449	-	-	448,535	501,401
Arizona .....	406	517	26,307	32,666	-	-	725,394	793,045
California .....	18,242	23,144	136,008	136,459	-	-	3,177,571	3,314,587
Hawaii .....	6,987	2,200	11,649	11,459	-	-	186,047	204,297
Nevada .....	1,191	1,151	15,873	11,097	-	-	383,375	383,830
Oregon .....	491	169	29,351	39,510	-	-	647,549	667,375
Washington .....	106,804	67,515	55,167	94,892	-	-	906,796	894,316

<sup>E</sup> 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 1997 and 1998.

• 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, 1997 and 1998**

(Thousand Gallons)

Destination	Commercial		Industrial		Oil Company		Electric Utility	
	1997	1998	1997	1998	1997	1998	1997	1998
<b>U.S. Total</b> .....	<b>754,967</b>	<b>590,388</b>	<b>1,815,165</b>	<b>1,484,331</b>	<b>153,424</b>	<b>105,233</b>	<b>4,655,775</b>	<b>6,748,744</b>
<b>PAD District I Total</b> .....	<b>724,631</b>	<b>474,619</b>	<b>1,398,504</b>	<b>1,184,856</b>	<b>65,532</b>	<b>70,478</b>	<b>3,897,100</b>	<b>5,808,888</b>
<b>Subdistrict IA Total</b> .....	<b>185,191</b>	<b>114,533</b>	<b>431,434</b>	<b>377,887</b>	<b>222</b>	<b>193</b>	<b>1,432,678</b>	<b>1,533,474</b>
Connecticut .....	13,705	6,971	16,105	13,103	222	193	553,297	548,348
Maine .....	25,044	12,261	284,837	235,973	-	-	105,069	156,049
Massachusetts .....	95,543	61,707	73,474	77,531	-	-	744,052	765,721
New Hampshire .....	20,221	12,048	35,381	31,167	-	-	30,260	63,356
Rhode Island .....	25,940	16,897	12,574	12,808	-	-	-	-
Vermont .....	4,738	4,649	9,063	7,305	-	-	-	-
<b>Subdistrict IB Total</b> .....	<b>520,804</b>	<b>349,468</b>	<b>259,917</b>	<b>215,510</b>	<b>64,427</b>	<b>70,056</b>	<b>898,515</b>	<b>1,697,931</b>
Delaware .....	8,283	5,401	33,625	26,807	18,237	15,777	69,093	95,176
District of Columbia .....	1,471	183	-	-	-	-	-	-
Maryland .....	2,127	1,830	35,152	27,139	634	573	93,615	260,624
New Jersey .....	33,865	21,314	55,412	35,424	2,437	1,800	18,331	117,616
New York .....	431,148	294,704	82,958	80,709	880	658	651,476	1,048,993
Pennsylvania .....	43,910	26,037	52,769	45,430	42,240	51,248	66,000	175,523
<b>Subdistrict IC Total</b> .....	<b>18,637</b>	<b>10,618</b>	<b>707,153</b>	<b>591,459</b>	<b>882</b>	<b>229</b>	<b>1,565,906</b>	<b>2,577,484</b>
Florida .....	5,302	431	143,797	178,124	345	-	1,517,580	2,367,910
Georgia .....	254	50	130,498	52,670	-	-	2,143	6,687
North Carolina .....	7,207	4,966	236,356	200,893	-	-	-	-
South Carolina .....	430	282	84,108	69,124	135	99	1,143	8,521
Virginia .....	5,443	4,889	102,530	87,506	402	129	45,040	194,365
West Virginia .....	-	-	9,864	3,142	-	-	-	-
<b>PAD District II Total</b> .....	<b>25,234</b>	<b>33,847</b>	<b>208,599</b>	<b>164,486</b>	<b>50,624</b>	<b>16,148</b>	<b>83,114</b>	<b>124,841</b>
Illinois .....	5,517	5,027	27,604	6,528	1,283	-	20,256	36,859
Indiana .....	376	5,263	24,146	32,160	21,727	-	-	-
Iowa .....	-	33	3,050	3,812	-	-	-	-
Kansas .....	-	3,434	7,148	8,008	-	-	14,871	5,354
Kentucky .....	-	-	3,966	837	3,078	1,573	-	-
Michigan .....	2,365	72	13,360	13,668	4,306	3,727	36,565	78,287
Minnesota .....	6,809	7,020	15,747	12,957	6,415	2,415	3,790	2,414
Missouri .....	1,420	1,477	7,661	7,942	-	-	7,483	1,926
Nebraska .....	404	309	4,289	4,270	-	-	-	-
North Dakota .....	382	707	3,481	1,196	4,095	-	66	-
Ohio .....	86	29	46,490	32,706	4,082	4,167	83	-
Oklahoma .....	-	-	11,055	4,357	-	-	-	-
South Dakota .....	358	233	2,353	4,157	-	-	-	-
Tennessee .....	1,885	62	4,551	6,735	60	61	-	-
Wisconsin .....	5,632	10,181	33,696	25,152	5,576	4,204	-	-
<b>PAD District III Total</b> .....	<b>-</b>	<b>-</b>	<b>156,545</b>	<b>107,120</b>	<b>5</b>	<b>1,491</b>	<b>226,311</b>	<b>439,878</b>
Alabama .....	-	-	25,589	26,719	-	-	-	-
Arkansas .....	-	-	890	146	5	-	2,297	6,134
Louisiana .....	-	-	43,233	31,932	-	-	33,564	40,964
Mississippi .....	-	-	1,313	6,657	-	-	188,578	381,669
New Mexico .....	-	-	6,695	5,885	-	-	-	-
Texas .....	-	-	78,825	35,781	-	1,491	1,872	11,111
<b>PAD District IV Total</b> .....	<b>550</b>	<b>424</b>	<b>3,190</b>	<b>4,796</b>	<b>9,901</b>	<b>4,188</b>	<b>-</b>	<b>-</b>
Colorado .....	-	130	125	4	-	-	-	-
Idaho .....	35	145	54	54	-	-	-	-
Montana .....	48	25	-	413	6,866	4,188	-	-
Utah .....	461	120	2,854	4,061	3,035	-	-	-
Wyoming .....	7	3	157	265	-	-	-	-
<b>PAD District V Total</b> .....	<b>4,552</b>	<b>81,497</b>	<b>48,328</b>	<b>23,073</b>	<b>27,362</b>	<b>12,927</b>	<b>449,250</b>	<b>375,137</b>
Alaska .....	-	-	5,915	-	-	-	-	-
Arizona .....	-	-	601	851	-	-	-	-
California .....	73	2,570	3,452	1,318	891	24	-	-
Hawaii .....	468	74,216	10,503	426	25,536	12,867	449,197	374,749
Nevada .....	30	162	8,746	3,358	43	17	-	387
Oregon .....	2,063	3,116	7,083	6,050	-	-	53	-
Washington .....	1,918	1,432	12,029	11,070	891	20	-	-

See footnotes at end of table.

**Table 17. Adjusted Sales of Residual Fuel Oil by End Use, 1997 and 1998 (Continued)**

(Thousand Gallons)

Destination	Vessel Bunkering		Military		All Other		Total	
	1997	1998	1997	1998	1997	1998	1997	1998
<b>U.S. Total</b> .....	<b>4,789,861</b>	<b>4,640,153</b>	<b>40,311</b>	<b>27,779</b>	<b>3,886</b>	<b>2,930</b>	<b>12,213,390</b>	<b>13,599,558</b>
<b>PAD District I Total</b> .....	<b>1,337,659</b>	<b>1,259,498</b>	<b>33,118</b>	<b>21,544</b>	<b>3,726</b>	<b>2,856</b>	<b>7,460,270</b>	<b>8,822,740</b>
Subdistrict IA Total .....	58,939	8,962	5,762	5,491	489	351	2,114,715	2,040,891
Connecticut .....	228	215	819	397	178	112	584,554	569,338
Maine .....	10	7,658	4,573	4,576	278	239	419,812	416,757
Massachusetts .....	58,519	774	370	518	33	-	971,990	906,250
New Hampshire .....	124	262	-	-	-	-	85,986	106,833
Rhode Island .....	58	54	-	-	-	-	38,572	29,759
Vermont .....	-	-	-	-	-	-	13,801	11,954
Subdistrict IB Total .....	786,100	805,210	13,520	8,340	-	-	2,543,282	3,146,514
Delaware .....	70,056	59,641	1,029	136	-	-	200,322	202,937
District of Columbia .....	-	-	-	-	-	-	1,471	183
Maryland .....	25,216	44,909	5,669	4,797	-	-	162,412	339,872
New Jersey .....	277,638	287,280	6,670	2,752	-	-	394,353	466,185
New York .....	217,982	174,944	-	330	-	-	1,384,444	1,600,338
Pennsylvania .....	195,208	238,436	152	326	-	-	400,280	537,000
Subdistrict IC Total .....	492,620	445,326	13,836	7,713	3,237	2,505	2,802,272	3,635,334
Florida .....	359,805	333,511	2,224	335	2,629	2,067	2,031,682	2,882,379
Georgia .....	47,162	39,722	11	-	-	-	180,069	99,129
North Carolina .....	8,442	5,898	3,368	535	609	438	255,981	212,730
South Carolina .....	18,704	14,374	4,755	3,850	-	-	109,275	96,250
Virginia .....	58,508	51,821	3,479	2,993	-	-	215,402	341,705
West Virginia .....	-	-	-	-	-	-	9,864	3,142
<b>PAD District II Total</b> .....	<b>24,910</b>	<b>21,245</b>	<b>365</b>	<b>599</b>	<b>56</b>	<b>16</b>	<b>392,901</b>	<b>361,182</b>
Illinois .....	2,013	1,216	3	386	-	-	56,676	50,017
Indiana .....	16,835	13,180	-	-	-	-	63,084	50,603
Iowa .....	-	-	-	-	-	-	3,050	3,845
Kansas .....	-	-	-	115	-	-	22,019	16,911
Kentucky .....	-	-	-	-	-	-	7,045	2,411
Michigan .....	2,205	3,572	-	-	24	16	58,825	99,342
Minnesota .....	406	-	-	-	-	-	33,168	24,807
Missouri .....	266	175	362	-	-	-	17,192	11,520
Nebraska .....	-	-	-	-	-	-	4,693	4,579
North Dakota .....	-	-	-	-	-	-	8,025	1,903
Ohio .....	2,497	2,506	-	-	-	-	53,238	39,407
Oklahoma .....	-	-	-	97	-	-	11,055	4,454
South Dakota .....	-	-	-	-	-	-	2,711	4,391
Tennessee .....	171	-	-	-	-	-	6,668	6,858
Wisconsin .....	516	596	-	-	32	-	45,453	40,133
<b>PAD District III Total</b> .....	<b>1,830,219</b>	<b>2,035,792</b>	<b>669</b>	<b>1,123</b>	<b>42</b>	<b>30</b>	<b>2,213,792</b>	<b>2,585,435</b>
Alabama .....	82,863	35,990	-	-	-	-	108,452	62,709
Arkansas .....	-	-	-	-	-	-	3,192	6,281
Louisiana .....	831,222	882,305	669	-	-	-	908,688	955,201
Mississippi .....	53,371	45,290	-	-	-	-	243,262	433,615
New Mexico .....	-	-	-	-	42	30	6,737	5,916
Texas .....	862,763	1,072,207	-	1,123	-	-	943,460	1,121,713
<b>PAD District IV Total</b> .....	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>59</b>	<b>27</b>	<b>13,700</b>	<b>9,435</b>
Colorado .....	-	-	-	-	17	-	142	135
Idaho .....	-	-	-	-	4	2	93	201
Montana .....	-	-	-	-	-	-	6,913	4,626
Utah .....	-	-	-	-	22	22	6,373	4,203
Wyoming .....	-	-	-	-	15	4	179	271
<b>PAD District V Total</b> .....	<b>1,597,073</b>	<b>1,323,618</b>	<b>6,159</b>	<b>4,513</b>	<b>3</b>	<b>-</b>	<b>2,132,728</b>	<b>1,820,785</b>
Alaska .....	92	310	-	-	-	-	6,007	310
Arizona .....	-	-	-	-	-	-	601	851
California .....	904,248	743,245	3,383	1,372	-	-	912,047	748,529
Hawaii .....	18,690	15,958	2,190	739	-	-	506,585	478,955
Nevada .....	-	-	-	-	-	-	8,818	3,925
Oregon .....	138,027	159,446	-	-	-	-	147,226	168,613
Washington .....	536,017	404,659	585	2,401	3	-	551,444	419,582

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 1997 and 1998.

• 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, 1997 and 1998, (DOE/EIA-0340(97)/1 - (98)/1).

**Table 18. Adjusted Sales of Kerosene by End Use, 1997 and 1998**

(Thousand Gallons)

Destination	Residential		Commercial		Industrial	
	1997	1998	1997	1998	1997	1998
<b>U.S. Total</b> .....	<b>688,025</b>	<b>802,348</b>	<b>182,559</b>	<b>230,743</b>	<b>110,738</b>	<b>123,246</b>
<b>PAD District I Total</b> .....	<b>555,496</b>	<b>659,105</b>	<b>146,401</b>	<b>189,089</b>	<b>66,284</b>	<b>75,519</b>
<b>Subdistrict IA Total</b> .....	<b>100,429</b>	<b>133,998</b>	<b>18,515</b>	<b>27,038</b>	<b>5,190</b>	<b>11,808</b>
Connecticut .....	6,020	5,304	4,357	7,381	1,608	2,180
Maine .....	55,003	78,969	6,581	10,150	1,388	2,107
Massachusetts .....	7,965	8,257	1,953	2,957	710	884
New Hampshire .....	19,986	26,041	2,437	2,397	762	462
Rhode Island .....	1,441	1,731	2,322	2,826	132	512
Vermont .....	10,015	13,696	865	1,327	591	5,663
<b>Subdistrict IB Total</b> .....	<b>222,668</b>	<b>250,726</b>	<b>97,417</b>	<b>124,659</b>	<b>48,276</b>	<b>48,778</b>
Delaware .....	5,087	6,884	656	512	246	41
District of Columbia .....	247	232	8,495	12,306	18	-
Maryland .....	25,085	30,226	9,531	13,165	1,121	4,211
New Jersey .....	12,283	12,939	31,496	45,545	27,498	18,627
New York .....	73,256	78,389	33,660	41,222	14,508	20,289
Pennsylvania .....	106,710	122,056	13,578	11,908	4,884	5,609
<b>Subdistrict IC Total</b> .....	<b>232,399</b>	<b>274,381</b>	<b>30,469</b>	<b>37,392</b>	<b>12,818</b>	<b>14,932</b>
Florida .....	8,485	7,031	2,257	2,737	2,085	3,304
Georgia .....	5,685	7,199	1,169	1,147	762	1,240
North Carolina .....	109,345	125,513	8,611	10,943	4,154	4,209
South Carolina .....	25,640	28,548	677	1,984	2,629	4,202
Virginia .....	66,479	86,216	15,615	18,190	802	821
West Virginia .....	16,765	19,874	2,140	2,390	2,386	1,156
<b>PAD District II Total</b> .....	<b>108,138</b>	<b>115,109</b>	<b>29,328</b>	<b>30,393</b>	<b>19,238</b>	<b>20,747</b>
Illinois .....	4,576	5,053	4,531	1,636	3,831	5,649
Indiana .....	12,707	12,605	3,639	2,162	1,257	2,024
Iowa .....	1,185	1,063	343	133	208	307
Kansas .....	486	748	1,169	358	175	232
Kentucky .....	20,393	25,670	4,751	5,480	3,973	1,964
Michigan .....	10,683	11,437	2,331	2,754	1,014	1,713
Minnesota .....	2,168	3,054	1,072	1,308	64	65
Missouri .....	1,879	2,075	862	765	341	164
Nebraska .....	294	402	109	120	20	31
North Dakota .....	224	254	22	43	6	3
Ohio .....	32,503	32,527	5,318	9,159	6,351	5,862
Oklahoma .....	585	527	684	878	298	183
South Dakota .....	245	213	24	19	10	9
Tennessee .....	18,357	17,828	4,159	5,160	1,317	2,176
Wisconsin .....	1,852	1,654	314	419	373	364
<b>PAD District III Total</b> .....	<b>10,068</b>	<b>7,748</b>	<b>2,949</b>	<b>3,984</b>	<b>16,264</b>	<b>18,873</b>
Alabama .....	2,407	1,692	374	878	2,474	1,595
Arkansas .....	789	627	220	286	166	113
Louisiana .....	3,865	2,886	110	227	902	1,072
Mississippi .....	901	1,017	533	276	1,209	2,093
New Mexico .....	224	242	120	119	202	308
Texas .....	1,881	1,284	1,593	2,198	11,311	13,693
<b>PAD District IV Total</b> .....	<b>1,310</b>	<b>1,933</b>	<b>462</b>	<b>801</b>	<b>1,249</b>	<b>606</b>
Colorado .....	799	1,015	205	366	66	68
Idaho .....	158	580	44	139	169	135
Montana .....	73	107	10	4	3	5
Utah .....	217	163	149	225	96	135
Wyoming .....	63	68	54	67	915	262
<b>PAD District V Total</b> .....	<b>13,013</b>	<b>18,453</b>	<b>3,419</b>	<b>6,477</b>	<b>7,703</b>	<b>7,502</b>
Alaska .....	6	35	14	14	-	2
Arizona .....	96	112	160	60	77	167
California .....	5,657	9,959	1,737	2,663	7,261	6,637
Hawaii .....	1	-	7	5	13	6
Nevada .....	229	406	32	88	60	22
Oregon .....	1,438	2,768	927	2,628	74	543
Washington .....	5,587	5,173	542	1,020	218	126

See footnotes at end of table.

**Table 18. Adjusted Sales of Kerosene by End Use, 1997 and 1998 (Continued)**

(Thousand Gallons)

Destination	Farm		All Other		Total	
	1997	1998	1997	1998	1997	1998
<b>U.S. Total</b> .....	<b>21,556</b>	<b>26,823</b>	<b>7,054</b>	<b>13,420</b>	<b>1,009,932</b>	<b>1,196,580</b>
<b>PAD District I Total</b> .....	<b>7,880</b>	<b>9,557</b>	<b>2,563</b>	<b>7,916</b>	<b>778,624</b>	<b>941,185</b>
<b>Subdistrict IA Total</b> .....	<b>908</b>	<b>1,224</b>	<b>243</b>	<b>424</b>	<b>125,286</b>	<b>174,493</b>
Connecticut .....	16	24	-	18	12,000	14,906
Maine .....	228	377	36	74	63,237	91,678
Massachusetts .....	139	49	24	24	10,791	12,171
New Hampshire .....	239	205	88	165	23,513	29,269
Rhode Island .....	-	-	2	36	3,897	5,106
Vermont .....	285	569	93	107	11,848	21,362
<b>Subdistrict IB Total</b> .....	<b>1,430</b>	<b>1,481</b>	<b>1,434</b>	<b>2,580</b>	<b>371,224</b>	<b>428,225</b>
Delaware .....	22	27	-	2	6,012	7,466
District of Columbia .....	-	-	-	-	8,761	12,538
Maryland .....	574	500	23	39	36,335	48,141
New Jersey .....	17	16	141	127	71,435	77,254
New York .....	267	277	381	887	122,072	141,064
Pennsylvania .....	549	662	889	1,526	126,610	141,762
<b>Subdistrict IC Total</b> .....	<b>5,541</b>	<b>6,851</b>	<b>886</b>	<b>4,912</b>	<b>282,114</b>	<b>338,467</b>
Florida .....	89	144	20	3,418	12,936	16,634
Georgia .....	17	640	226	52	7,859	10,279
North Carolina .....	2,081	1,651	464	246	124,655	142,561
South Carolina .....	188	364	34	53	29,168	35,152
Virginia .....	2,938	3,069	97	1,057	85,930	109,353
West Virginia .....	229	983	46	86	21,566	24,489
<b>PAD District II Total</b> .....	<b>11,647</b>	<b>14,671</b>	<b>3,462</b>	<b>2,292</b>	<b>171,813</b>	<b>183,213</b>
Illinois .....	1,805	2,187	654	124	15,397	14,649
Indiana .....	1,337	1,204	353	180	19,294	18,176
Iowa .....	901	1,063	23	50	2,660	2,615
Kansas .....	512	595	94	160	2,436	2,092
Kentucky .....	1,550	2,504	199	144	30,865	35,762
Michigan .....	515	281	329	86	14,873	16,272
Minnesota .....	940	942	46	94	4,289	5,464
Missouri .....	114	389	50	89	3,245	3,481
Nebraska .....	464	369	94	45	981	967
North Dakota .....	19	16	13	18	284	335
Ohio .....	2,666	4,166	1,218	1,008	48,057	52,722
Oklahoma .....	265	259	67	74	1,899	1,922
South Dakota .....	81	42	8	-	368	283
Tennessee .....	309	427	228	153	24,369	25,744
Wisconsin .....	169	226	87	66	2,794	2,730
<b>PAD District III Total</b> .....	<b>620</b>	<b>689</b>	<b>606</b>	<b>2,338</b>	<b>30,506</b>	<b>33,633</b>
Alabama .....	12	10	62	55	5,329	4,230
Arkansas .....	147	49	104	561	1,425	1,636
Louisiana .....	12	45	235	1,244	5,123	5,474
Mississippi .....	62	33	11	66	2,717	3,485
New Mexico .....	51	48	7	17	604	733
Texas .....	336	505	187	394	15,308	18,074
<b>PAD District IV Total</b> .....	<b>541</b>	<b>190</b>	<b>68</b>	<b>293</b>	<b>3,630</b>	<b>3,822</b>
Colorado .....	125	122	32	280	1,227	1,850
Idaho .....	381	39	-	-	752	893
Montana .....	2	2	-	-	89	118
Utah .....	28	11	16	5	506	539
Wyoming .....	5	16	20	8	1,057	423
<b>PAD District V Total</b> .....	<b>869</b>	<b>1,716</b>	<b>354</b>	<b>580</b>	<b>25,358</b>	<b>34,727</b>
Alaska .....	-	-	1	1	22	51
Arizona .....	12	19	2	95	346	452
California .....	224	428	150	241	15,030	19,927
Hawaii .....	-	-	-	-	21	11
Nevada .....	10	29	-	1	330	546
Oregon .....	53	124	117	97	2,610	6,158
Washington .....	569	1,116	83	146	6,999	7,581

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 1997 and 1998.

• Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1997 and 1998, (DOE/EIA-0340(97)/1 - (98)/1).

**Table 19. Adjusted Sales for Residential Use: Distillate Fuel Oil and Kerosene, 1998**  
(Thousand Gallons)

Destination	Distillate Fuel Oil			Kerosene
	No. 1	No. 2	Total	
<b>U.S. Total</b> .....	<b>124,828</b>	<b>5,508,581</b>	<b>5,633,409</b>	<b>802,348</b>
<b>PAD District I Total</b> .....	<b>11,847</b>	<b>4,771,162</b>	<b>4,783,009</b>	<b>659,105</b>
<b>Subdistrict IA Total</b> .....	<b>4,393</b>	<b>1,929,113</b>	<b>1,933,506</b>	<b>133,998</b>
Connecticut .....	220	473,049	473,269	5,304
Maine .....	2,709	320,484	323,193	78,969
Massachusetts .....	574	726,011	726,585	8,257
New Hampshire .....	889	183,931	184,820	26,041
Rhode Island .....	1	139,717	139,718	1,731
Vermont .....	-	85,921	85,921	13,696
<b>Subdistrict IB Total</b> .....	<b>5,121</b>	<b>2,449,051</b>	<b>2,454,172</b>	<b>250,726</b>
Delaware .....	318	34,111	34,429	6,884
District of Columbia .....	-	10,065	10,065	232
Maryland .....	755	183,848	184,603	30,226
New Jersey .....	726	389,852	390,578	12,939
New York .....	1	1,139,875	1,139,876	78,389
Pennsylvania .....	3,322	691,301	694,623	122,056
<b>Subdistrict IC Total</b> .....	<b>2,333</b>	<b>392,999</b>	<b>395,332</b>	<b>274,381</b>
Florida .....	46	4,614	4,660	7,031
Georgia .....	51	3,950	4,001	7,199
North Carolina .....	98	127,982	128,080	125,513
South Carolina .....	432	19,909	20,341	28,548
Virginia .....	997	213,846	214,843	86,216
West Virginia .....	709	22,698	23,407	19,874
<b>PAD District II Total</b> .....	<b>67,203</b>	<b>553,283</b>	<b>620,486</b>	<b>115,109</b>
Illinois .....	2,677	14,590	17,267	5,053
Indiana .....	6,832	36,750	43,582	12,605
Iowa .....	4,288	18,447	22,735	1,063
Kansas .....	233	239	472	748
Kentucky .....	706	23,470	24,176	25,670
Michigan .....	8,212	101,456	109,668	11,437
Minnesota .....	18,557	86,502	105,059	3,054
Missouri .....	2,047	10,103	12,150	2,075
Nebraska .....	1,390	1,281	2,671	402
North Dakota .....	4,345	17,631	21,976	254
Ohio .....	2,474	117,095	119,569	32,527
Oklahoma .....	11	40	51	527
South Dakota .....	4,039	11,763	15,802	213
Tennessee .....	1,331	8,185	9,516	17,828
Wisconsin .....	10,061	105,730	115,791	1,654
<b>PAD District III Total</b> .....	<b>32</b>	<b>278</b>	<b>310</b>	<b>7,748</b>
Alabama .....	29	143	172	1,692
Arkansas .....	-	15	15	627
Louisiana .....	-	29	29	2,886
Mississippi .....	2	28	30	1,017
New Mexico .....	1	56	57	242
Texas .....	-	8	8	1,284
<b>PAD District IV Total</b> .....	<b>13,072</b>	<b>29,551</b>	<b>42,623</b>	<b>1,933</b>
Colorado .....	319	570	889	1,015
Idaho .....	3,616	14,207	17,823	580
Montana .....	8,431	10,912	19,343	107
Utah .....	507	2,849	3,356	163
Wyoming .....	198	1,014	1,212	68
<b>PAD District V Total</b> .....	<b>32,675</b>	<b>154,306</b>	<b>186,981</b>	<b>18,453</b>
Alaska .....	25,404	39,300	64,704	35
Arizona .....	17	156	173	112
California .....	370	6,164	6,534	9,959
Hawaii .....	-	13	13	-
Nevada .....	336	10,214	10,550	406
Oregon .....	3,163	33,836	36,999	2,768
Washington .....	3,385	64,623	68,008	5,173

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 1998.

• Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1998, (DOE/EIA-0340(98)/1).

**Table 20. Adjusted Sales for Commercial Use: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 1998**  
(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				
<b>U.S. Total</b>	<b>77,915</b>	<b>1,308,529</b>	<b>972,200</b>	<b>484,637</b>	<b>2,765,366</b>	<b>201,214</b>	<b>3,044,495</b>	<b>590,388</b>	<b>230,743</b>
<b>PAD District I Total</b>	<b>4,485</b>	<b>1,140,090</b>	<b>407,330</b>	<b>214,496</b>	<b>1,761,917</b>	<b>200,965</b>	<b>1,967,367</b>	<b>474,619</b>	<b>189,089</b>
<b>Subdistrict IA Total</b>	<b>371</b>	<b>411,392</b>	<b>90,023</b>	<b>25,990</b>	<b>527,405</b>	<b>53,176</b>	<b>580,952</b>	<b>114,533</b>	<b>27,038</b>
Connecticut	2	81,607	17,706	7,994	107,307	5,255	112,564	6,971	7,361
Maine	262	88,605	24,129	2,883	115,618	1,729	117,608	12,261	10,150
Massachusetts	-	158,812	24,876	9,200	192,888	38,372	231,260	61,707	2,957
New Hampshire	102	37,464	10,473	530	48,467	4,281	52,849	12,048	2,397
Rhode Island	3	16,568	5,808	2,332	24,708	1,816	26,526	16,897	2,826
Vermont	2	28,336	7,030	3,052	38,418	1,724	40,144	4,649	1,327
<b>Subdistrict IB Total</b>	<b>2,298</b>	<b>598,694</b>	<b>153,290</b>	<b>73,977</b>	<b>825,961</b>	<b>144,669</b>	<b>972,927</b>	<b>349,468</b>	<b>124,659</b>
Delaware	-	6,564	3,246	948	10,758	1,634	12,392	5,401	512
District of Columbia	-	11,060	461	905	12,426	1,192	13,618	183	12,306
Maryland	947	43,694	38,696	24,766	107,156	1,238	109,341	1,830	13,165
New Jersey	41	84,826	23,777	8,065	116,668	14,290	130,999	21,314	45,545
New York	1,104	333,265	45,117	9,905	388,287	120,459	509,850	294,704	41,222
Pennsylvania	205	119,285	41,994	29,387	190,666	5,856	196,727	26,037	11,908
<b>Subdistrict IC Total</b>	<b>1,817</b>	<b>130,005</b>	<b>164,017</b>	<b>114,529</b>	<b>408,551</b>	<b>3,121</b>	<b>413,488</b>	<b>10,618</b>	<b>37,392</b>
Florida	-	9,767	32,353	17,373	59,494	101	59,595	431	2,737
Georgia	156	5,430	15,079	9,968	30,477	-	30,633	50	1,147
North Carolina	1,260	42,609	33,587	30,914	107,109	2,215	110,584	4,966	10,943
South Carolina	152	6,989	43,475	13,654	64,118	13	64,282	282	1,984
Virginia	83	62,214	32,907	36,611	131,732	729	132,544	4,889	18,190
West Virginia	166	2,997	6,615	6,008	15,620	63	15,849	-	2,390
<b>PAD District II Total</b>	<b>40,302</b>	<b>131,291</b>	<b>250,882</b>	<b>137,842</b>	<b>520,014</b>	<b>201</b>	<b>560,518</b>	<b>33,847</b>	<b>30,393</b>
Illinois	10,131	18,020	33,354	15,452	66,826	1	76,959	5,027	1,636
Indiana	2,510	17,045	16,699	22,540	56,284	-	58,794	5,263	2,162
Iowa	1,321	5,631	11,072	1,112	17,815	-	19,137	33	133
Kansas	2,073	1,083	13,859	1,213	16,155	-	18,227	3,434	358
Kentucky	389	6,513	22,487	14,263	43,263	106	43,758	-	5,480
Michigan	4,067	14,949	31,227	11,998	58,174	-	62,241	72	2,754
Minnesota	3,232	16,491	11,598	3,507	31,596	-	34,828	7,020	1,308
Missouri	1,994	2,169	17,229	26,508	45,906	46	47,946	1,477	765
Nebraska	3,134	1,452	3,340	1,237	6,029	-	9,162	309	120
North Dakota	950	4,387	4,979	806	10,173	-	11,122	707	43
Ohio	3,978	12,704	13,426	16,349	42,478	-	46,456	29	9,159
Oklahoma	757	3,382	19,040	2,406	24,828	-	25,585	-	878
South Dakota	1,223	4,677	2,761	1,141	8,579	-	9,802	233	19
Tennessee	249	2,111	23,745	13,082	38,937	48	39,234	62	5,160
Wisconsin	4,294	20,678	26,067	6,228	52,973	-	57,267	10,181	419
<b>PAD District III Total</b>	<b>3,110</b>	<b>4,779</b>	<b>86,688</b>	<b>43,877</b>	<b>135,344</b>	<b>-</b>	<b>138,454</b>	<b>-</b>	<b>3,984</b>
Alabama	716	2,246	9,328	4,054	15,628	-	16,344	-	878
Arkansas	56	44	6,415	3,806	10,266	-	10,322	-	286
Louisiana	108	127	2,566	5,922	8,615	-	8,723	-	227
Mississippi	28	1,240	5,573	3,695	10,508	-	10,536	-	276
New Mexico	168	81	2,681	1,055	3,817	-	3,984	-	119
Texas	2,035	1,040	60,126	25,344	86,511	-	88,545	-	2,198
<b>PAD District IV Total</b>	<b>8,668</b>	<b>10,173</b>	<b>67,539</b>	<b>12,454</b>	<b>90,167</b>	<b>-</b>	<b>98,835</b>	<b>424</b>	<b>801</b>
Colorado	3,364	2,837	33,817	1,499	38,153	-	41,516	130	366
Idaho	1,229	1,894	12,909	3,688	18,492	-	19,720	145	139
Montana	1,041	1,725	2,558	130	4,413	-	5,454	25	4
Utah	1,624	1,685	15,084	6,684	23,453	-	25,077	120	225
Wyoming	1,411	2,032	3,170	454	5,656	-	7,067	3	67
<b>PAD District V Total</b>	<b>21,350</b>	<b>22,196</b>	<b>159,760</b>	<b>75,968</b>	<b>257,924</b>	<b>48</b>	<b>279,321</b>	<b>81,497</b>	<b>6,477</b>
Alaska	16,127	11,053	350	13,799	25,202	8	41,337	-	14
Arizona	243	43	20,760	22,328	43,131	38	43,413	-	60
California	549	3,052	88,501	10,751	102,303	-	102,852	2,570	2,663
Hawaii	1	70	5,963	2,115	8,148	-	8,149	74,216	5
Nevada	477	2,446	6,886	2,133	11,464	-	11,942	162	88
Oregon	840	1,777	20,312	15,557	37,646	1	38,467	3,116	2,628
Washington	3,113	3,755	16,988	9,286	30,029	-	33,142	1,432	1,020

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 1998.

• Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1998, (DOE/EIA-0340(98)/1).

**Table 21. Adjusted Sales for Industrial Use: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 1998**  
(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				
<b>U.S. Total</b>	<b>137,154</b>	<b>522,856</b>	<b>570,126</b>	<b>978,661</b>	<b>2,071,643</b>	<b>49,450</b>	<b>2,258,248</b>	<b>1,484,331</b>	<b>123,246</b>
<b>PAD District I Total</b>	<b>20,856</b>	<b>281,572</b>	<b>105,436</b>	<b>309,894</b>	<b>696,902</b>	<b>40,509</b>	<b>758,267</b>	<b>1,184,856</b>	<b>75,519</b>
<b>Subdistrict IA Total</b>	<b>161</b>	<b>65,297</b>	<b>7,359</b>	<b>7,655</b>	<b>80,310</b>	<b>15,809</b>	<b>96,280</b>	<b>377,887</b>	<b>11,808</b>
Connecticut	-	12,253	717	106	13,076	9,328	22,405	13,103	2,180
Maine	161	28,452	1,791	946	31,189	365	31,715	235,973	2,107
Massachusetts	-	11,937	2,205	3,349	17,491	3,210	20,701	77,531	884
New Hampshire	-	2,521	1,641	1,803	5,965	857	6,822	31,167	462
Rhode Island	-	5,667	560	614	6,841	861	7,701	12,808	512
Vermont	-	4,466	445	837	5,748	1,188	6,936	7,305	5,663
<b>Subdistrict IB Total</b>	<b>15,088</b>	<b>117,911</b>	<b>32,412</b>	<b>69,162</b>	<b>219,486</b>	<b>16,947</b>	<b>251,521</b>	<b>215,510</b>	<b>48,778</b>
Delaware	4	1,270	2,436	832	4,538	85	4,628	26,807	41
District of Columbia	-	242	1	5	248	44	292	-	-
Maryland	14,862	35,174	6,421	9,898	51,493	875	67,230	27,139	4,211
New Jersey	29	27,963	804	5,821	34,588	5,956	40,574	35,424	18,627
New York	73	24,502	6,418	4,720	35,639	6,076	41,789	80,709	20,289
Pennsylvania	119	28,760	16,333	47,887	92,979	3,910	97,008	45,430	5,609
<b>Subdistrict IC Total</b>	<b>5,607</b>	<b>98,363</b>	<b>65,665</b>	<b>233,077</b>	<b>397,106</b>	<b>7,753</b>	<b>410,465</b>	<b>591,459</b>	<b>14,932</b>
Florida	125	9,701	22,012	17,313	49,026	4,222	53,374	178,124	3,304
Georgia	1,050	9,448	10,031	24,445	43,924	257	45,231	52,670	1,240
North Carolina	1,635	34,032	14,194	29,587	77,814	2,627	82,075	200,893	4,209
South Carolina	432	9,378	3,433	9,906	22,717	146	23,294	69,124	4,202
Virginia	420	23,173	11,047	53,545	87,765	501	88,685	87,506	821
West Virginia	1,945	12,631	4,948	98,281	115,861	-	117,805	3,142	1,156
<b>PAD District II Total</b>	<b>73,434</b>	<b>215,994</b>	<b>133,783</b>	<b>346,943</b>	<b>696,720</b>	<b>4,844</b>	<b>774,998</b>	<b>164,486</b>	<b>20,747</b>
Illinois	5,240	16,498	16,252	77,872	110,622	12	115,874	6,528	5,649
Indiana	1,858	59,885	18,735	23,071	101,690	145	103,693	32,160	2,024
Iowa	14,058	3,186	11,250	2,801	17,237	92	31,388	3,812	307
Kansas	1,697	2,971	4,393	4,208	11,572	1,685	14,954	8,008	232
Kentucky	4,394	14,016	6,385	128,527	148,928	706	154,029	837	1,964
Michigan	5,733	13,384	11,469	20,459	45,313	-	51,046	13,668	1,713
Minnesota	4,512	14,247	10,960	21,204	46,412	297	51,221	12,957	65
Missouri	5,942	18,598	11,117	6,578	36,293	386	42,621	7,942	164
Nebraska	14,727	1,701	1,392	2,510	5,603	338	20,668	4,270	31
North Dakota	2,680	2,825	1,431	1,065	5,321	-	8,002	1,196	3
Ohio	677	37,902	9,790	20,236	67,928	260	68,865	32,706	5,862
Oklahoma	205	487	1,780	6,361	8,627	-	8,832	4,357	183
South Dakota	418	1,387	1,170	-	2,557	61	3,036	4,157	9
Tennessee	2,205	6,141	13,563	17,737	37,440	725	40,371	6,735	2,176
Wisconsin	9,084	22,767	14,099	14,311	51,177	136	60,397	25,152	364
<b>PAD District III Total</b>	<b>8,488</b>	<b>7,946</b>	<b>64,185</b>	<b>120,809</b>	<b>192,940</b>	<b>2,332</b>	<b>203,760</b>	<b>107,120</b>	<b>18,873</b>
Alabama	298	4,528	11,984	30,324	46,836	16	47,150	26,719	1,595
Arkansas	18	102	1,418	8,494	10,014	825	10,856	146	113
Louisiana	2	190	2,038	5,898	8,126	356	8,484	31,932	1,072
Mississippi	1,265	2,504	3,087	6,475	12,066	1,008	14,339	6,657	2,093
New Mexico	2,654	607	16,665	4,751	22,023	-	24,677	5,885	308
Texas	4,251	16	28,993	64,867	93,875	127	98,253	35,781	13,693
<b>PAD District IV Total</b>	<b>14,847</b>	<b>10,187</b>	<b>139,813</b>	<b>25,212</b>	<b>175,212</b>	<b>91</b>	<b>190,151</b>	<b>4,796</b>	<b>606</b>
Colorado	1,696	1,007	17,849	2,943	21,799	-	23,495	4	68
Idaho	4,960	254	10,583	12,698	23,535	-	28,496	54	135
Montana	1,809	561	13,116	946	14,623	-	16,432	413	5
Utah	1,452	1,884	24,198	7,533	33,615	-	35,067	4,061	135
Wyoming	4,930	6,481	74,067	1,092	81,640	91	86,661	265	262
<b>PAD District V Total</b>	<b>19,530</b>	<b>7,157</b>	<b>126,908</b>	<b>175,804</b>	<b>309,869</b>	<b>1,674</b>	<b>331,073</b>	<b>23,073</b>	<b>7,502</b>
Alaska	14,572	3,645	-	10,844	14,489	-	29,061	-	2
Arizona	2,596	-	24,862	56,844	81,706	-	84,303	851	167
California	96	957	41,579	15,783	58,319	1,674	60,089	1,318	6,637
Hawaii	-	67	520	1,167	1,754	-	1,754	426	6
Nevada	1,311	362	41,382	65,823	107,568	-	108,879	3,358	22
Oregon	813	1,131	11,976	19,033	32,140	-	32,953	6,050	543
Washington	141	995	6,590	6,309	13,894	-	14,034	11,070	126

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 1998.

• Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1998, (DOE/EIA-0340(98)/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, 1998**  
(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
<b>U.S. Total</b> .....	<b>2,965,006</b>	<b>68,399</b>	<b>3,033,405</b>	<b>26,823</b>	<b>962,921</b>	<b>6,748,744</b>	<b>565,174</b>	<b>105,233</b>
<b>PAD District I Total</b> .....	<b>356,222</b>	<b>29,619</b>	<b>385,841</b>	<b>9,557</b>	<b>442,618</b>	<b>5,808,888</b>	<b>7,065</b>	<b>70,478</b>
<b>Subdistrict IA Total</b> .....	<b>13,289</b>	<b>5,181</b>	<b>18,470</b>	<b>1,224</b>	<b>15,471</b>	<b>1,533,474</b>	<b>98</b>	<b>193</b>
Connecticut .....	2,640	664	3,304	24	5,097	548,348	14	193
Maine .....	2,613	2,040	4,653	377	1,526	156,049	-	-
Massachusetts .....	1,918	921	2,839	49	5,026	765,721	78	-
New Hampshire .....	761	408	1,169	205	1,921	63,356	-	-
Rhode Island .....	30	25	55	-	1,404	-	-	-
Vermont .....	5,327	1,123	6,450	569	498	-	7	-
<b>Subdistrict IB Total</b> .....	<b>86,361</b>	<b>14,042</b>	<b>100,403</b>	<b>1,481</b>	<b>120,020</b>	<b>1,697,931</b>	<b>3,000</b>	<b>70,056</b>
Delaware .....	6,966	26	6,993	27	3,462	95,176	1,023	15,777
District of Columbia .....	-	-	-	-	21,553	-	-	-
Maryland .....	21,889	1,393	23,283	500	23,686	260,624	31	573
New Jersey .....	3,761	1,008	4,769	16	8,741	117,616	289	1,800
New York .....	31,833	6,773	38,605	277	3,789	1,048,993	748	658
Pennsylvania .....	21,912	4,842	26,753	662	58,789	175,523	910	51,248
<b>Subdistrict IC Total</b> .....	<b>256,572</b>	<b>10,397</b>	<b>266,969</b>	<b>6,851</b>	<b>307,126</b>	<b>2,577,484</b>	<b>3,967</b>	<b>229</b>
Florida .....	70,978	179	71,157	144	173,222	2,367,910	306	-
Georgia .....	107,063	974	108,037	640	46,246	6,687	315	-
North Carolina .....	31,805	2,541	34,346	1,651	31,541	-	132	-
South Carolina .....	12,833	3,976	16,809	364	31,220	8,521	4	99
Virginia .....	31,699	2,181	33,880	3,069	11,657	194,365	2,967	129
West Virginia .....	2,194	545	2,739	983	13,240	-	242	-
<b>PAD District II Total</b> .....	<b>1,548,065</b>	<b>34,662</b>	<b>1,582,727</b>	<b>14,671</b>	<b>252,760</b>	<b>124,841</b>	<b>43,466</b>	<b>16,148</b>
Illinois .....	201,336	3,477	204,813	2,187	49,421	36,859	774	-
Indiana .....	91,427	1,854	93,281	1,204	31,547	-	2,203	-
Iowa .....	189,522	3,283	192,804	1,063	8,552	-	-	-
Kansas .....	158,420	181	158,601	595	8,386	5,354	3,064	-
Kentucky .....	42,593	508	43,102	2,504	8,374	-	4,458	1,573
Michigan .....	46,748	3,808	50,556	281	28,313	78,287	2,158	3,727
Minnesota .....	156,985	6,628	163,613	942	6,763	2,414	267	2,415
Missouri .....	58,832	269	59,101	389	10,318	1,926	105	-
Nebraska .....	165,790	2,706	168,496	369	2,580	-	37	-
North Dakota .....	84,835	581	85,416	16	40,327	-	4,295	-
Ohio .....	79,159	4,053	83,212	4,166	35,456	-	1,491	4,167
Oklahoma .....	69,326	-	69,326	259	3,258	-	24,289	-
South Dakota .....	67,406	1,052	68,458	42	825	-	-	-
Tennessee .....	58,446	-	58,446	427	13,767	-	326	61
Wisconsin .....	77,240	6,262	83,502	226	4,873	-	-	4,204
<b>PAD District III Total</b> .....	<b>436,679</b>	<b>935</b>	<b>437,615</b>	<b>689</b>	<b>53,256</b>	<b>439,878</b>	<b>392,981</b>	<b>1,491</b>
Alabama .....	19,460	-	19,460	10	11,014	-	243	-
Arkansas .....	77,361	242	77,603	49	11,575	6,134	1,168	-
Louisiana .....	35,070	-	35,070	45	14,590	40,964	230,650	-
Mississippi .....	68,981	693	69,675	33	4,070	381,669	1,368	-
New Mexico .....	10,214	-	10,215	48	786	-	12,120	-
Texas .....	225,592	-	225,592	505	11,222	11,111	147,434	1,491
<b>PAD District IV Total</b> .....	<b>208,329</b>	<b>1,208</b>	<b>209,537</b>	<b>190</b>	<b>8,241</b>	<b>-</b>	<b>30,315</b>	<b>4,188</b>
Colorado .....	73,862	429	74,291	122	550	-	4,903	-
Idaho .....	41,678	133	41,812	39	29	-	-	-
Montana .....	55,086	605	55,691	2	-	-	1,745	4,188
Utah .....	22,599	11	22,610	11	3,528	-	5,528	-
Wyoming .....	15,104	30	15,134	16	4,134	-	18,140	-
<b>PAD District V Total</b> .....	<b>415,711</b>	<b>1,974</b>	<b>417,685</b>	<b>1,716</b>	<b>206,046</b>	<b>375,137</b>	<b>91,346</b>	<b>12,927</b>
Alaska .....	1	1	2	-	68,820	-	83,626	-
Arizona .....	22,870	192	23,062	19	3,461	-	85	-
California .....	295,431	-	295,431	428	9,012	-	5,334	24
Hawaii .....	8,277	-	8,277	-	121,998	374,749	1,123	12,867
Nevada .....	4,903	-	4,903	29	1,787	387	269	17
Oregon .....	27,740	1,484	29,224	124	449	-	213	-
Washington .....	56,489	297	56,786	1,116	519	-	697	20

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 1998.

• Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1998, (DOE/EIA-0340(98)/1).

**Table 23. Adjusted Sales for Transportation Use: Distillate Fuel Oil and Residual Fuel Oil, 1998**  
(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
<b>U.S. Total</b>	<b>2,833,276</b>	<b>2,125,568</b>	<b>4,640,153</b>	<b>30,150,191</b>	<b>35,109,034</b>	<b>4,640,153</b>
<b>PAD District I Total</b>	<b>479,042</b>	<b>507,256</b>	<b>1,259,498</b>	<b>9,398,405</b>	<b>10,384,703</b>	<b>1,259,498</b>
<b>Subdistrict IA Total</b>	<b>28,566</b>	<b>46,648</b>	<b>8,962</b>	<b>942,889</b>	<b>1,018,103</b>	<b>8,962</b>
Connecticut	6,887	2,774	215	222,076	231,737	215
Maine	7,830	12,243	7,658	135,254	155,327	7,658
Massachusetts	12,476	19,280	774	357,050	388,806	774
New Hampshire	17	522	262	103,225	103,764	262
Rhode Island	263	11,343	54	48,713	60,319	54
Vermont	1,092	487	-	76,571	78,150	-
<b>Subdistrict IB Total</b>	<b>124,968</b>	<b>151,568</b>	<b>805,210</b>	<b>3,420,503</b>	<b>3,697,039</b>	<b>805,210</b>
Delaware	433	2,576	59,641	62,453	65,462	59,641
District of Columbia	4,552	3	-	21,412	25,967	-
Maryland	5,870	20,143	44,909	425,381	451,394	44,909
New Jersey	43,126	90,255	287,280	717,711	851,092	287,280
New York	23,450	4,774	174,944	917,161	945,385	174,944
Pennsylvania	47,538	33,817	238,436	1,276,385	1,357,740	238,436
<b>Subdistrict IC Total</b>	<b>325,508</b>	<b>309,040</b>	<b>445,326</b>	<b>5,035,013</b>	<b>5,669,561</b>	<b>445,326</b>
Florida	103,642	157,585	333,511	1,182,855	1,444,082	333,511
Georgia	74,455	10,258	39,722	1,231,023	1,315,736	39,722
North Carolina	44,816	35,255	5,898	892,816	972,887	5,898
South Carolina	16,209	13,579	14,374	563,590	593,378	14,374
Virginia	66,346	28,989	51,821	895,185	990,520	51,821
West Virginia	20,040	63,374	-	269,544	352,959	-
<b>PAD District II Total</b>	<b>1,246,799</b>	<b>587,612</b>	<b>21,245</b>	<b>10,205,834</b>	<b>12,040,245</b>	<b>21,245</b>
Illinois	104,333	42,053	1,216	1,077,513	1,223,899	1,216
Indiana	64,889	25,739	13,180	1,129,693	1,220,321	13,180
Iowa	45,193	7,148	-	479,789	532,130	-
Kansas	76,052	-	-	372,593	448,645	-
Kentucky	96,618	89,982	-	690,621	877,221	-
Michigan	51,806	7,755	3,572	865,113	924,674	3,572
Minnesota	91,241	3,791	-	546,107	641,139	-
Missouri	28,345	341,792	175	933,682	1,303,819	175
Nebraska	207,061	36	-	360,777	567,874	-
North Dakota	18,756	512	-	142,612	161,880	-
Ohio	139,142	8,650	2,506	1,412,948	1,560,740	2,506
Oklahoma	196,323	515	-	566,471	763,309	-
South Dakota	1,271	-	-	141,809	143,080	-
Tennessee	95,545	57,090	-	821,331	973,966	-
Wisconsin	30,224	2,548	596	664,775	697,547	596
<b>PAD District III Total</b>	<b>443,782</b>	<b>721,207</b>	<b>2,035,792</b>	<b>5,125,135</b>	<b>6,290,124</b>	<b>2,035,792</b>
Alabama	28,335	18,932	35,990	701,742	749,009	35,990
Arkansas	41,198	3,642	-	560,831	605,670	-
Louisiana	20,380	435,543	882,305	541,189	997,112	882,305
Mississippi	15,276	16,664	45,290	494,855	526,795	45,290
New Mexico	9,105	-	-	393,110	402,215	-
Texas	329,489	246,427	1,072,207	2,433,408	3,009,324	1,072,207
<b>PAD District IV Total</b>	<b>302,246</b>	<b>185</b>	<b>-</b>	<b>1,303,954</b>	<b>1,606,385</b>	<b>-</b>
Colorado	67,747	-	-	383,801	451,548	-
Idaho	37,302	185	-	184,607	222,094	-
Montana	68,739	-	-	171,675	240,414	-
Utah	29,065	-	-	303,331	332,396	-
Wyoming	99,394	-	-	260,540	359,934	-
<b>PAD District V Total</b>	<b>361,407</b>	<b>309,307</b>	<b>1,323,618</b>	<b>4,116,863</b>	<b>4,787,577</b>	<b>1,323,618</b>
Alaska	4,504	102,755	310	68,548	175,807	310
Arizona	2,557	-	-	602,809	605,366	-
California	231,282	105,189	743,245	2,339,261	2,675,732	743,245
Hawaii	-	20,368	15,958	28,956	49,324	15,958
Nevada	4,297	-	-	228,955	233,252	-
Oregon	54,985	15,434	159,446	418,953	489,371	159,446
Washington	63,782	65,560	404,659	429,381	558,724	404,659

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 1998.

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

• Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1998, (DOE/EIA-0340(98)/1).

**Table 24. Adjusted Sales for Military, Off-Highway, and All Other Uses: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 1998**  
(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
<b>U.S. Total</b> .....	<b>252,622</b>	<b>25,066</b>	<b>277,688</b>	<b>27,779</b>	<b>1,749,317</b>	<b>430,243</b>	<b>2,179,560</b>	-	<b>2,930</b>	<b>13,420</b>
<b>PAD District I Total</b> .....	<b>25,833</b>	<b>13,980</b>	<b>39,813</b>	<b>21,544</b>	<b>499,954</b>	<b>124,358</b>	<b>624,312</b>	-	<b>2,856</b>	<b>7,916</b>
<b>Subdistrict IA Total</b> .....	<b>2,240</b>	<b>1,516</b>	<b>3,756</b>	<b>5,491</b>	<b>46,168</b>	<b>16,333</b>	<b>62,501</b>	-	<b>351</b>	<b>424</b>
Connecticut .....	97	761	858	397	6,935	718	7,653	-	112	18
Maine .....	294	687	981	4,576	10,818	10,683	21,500	-	239	74
Massachusetts .....	464	48	512	518	18,386	1,248	19,634	-	-	24
New Hampshire .....	540	-	540	-	5,161	2,849	8,010	-	-	165
Rhode Island .....	719	11	730	-	2,631	265	2,896	-	-	36
Vermont .....	126	9	135	-	2,237	570	2,807	-	-	107
<b>Subdistrict IB Total</b> .....	<b>4,796</b>	<b>9,611</b>	<b>14,407</b>	<b>8,340</b>	<b>159,485</b>	<b>9,999</b>	<b>169,485</b>	-	-	<b>2,580</b>
Delaware .....	653	477	1,130	136	5,677	124	5,801	-	-	2
District of Columbia .....	88	71	158	-	449	-	449	-	-	-
Maryland .....	1,515	1,838	3,353	4,797	24,515	1,448	25,963	-	-	39
New Jersey .....	987	17	1,004	2,752	36,846	3,203	40,049	-	-	127
New York .....	290	359	649	330	46,166	1,752	47,918	-	-	887
Pennsylvania .....	1,264	6,849	8,113	326	45,833	3,472	49,305	-	-	1,526
<b>Subdistrict IC Total</b> .....	<b>18,797</b>	<b>2,853</b>	<b>21,650</b>	<b>7,713</b>	<b>294,301</b>	<b>98,026</b>	<b>392,327</b>	-	<b>2,505</b>	<b>4,912</b>
Florida .....	4,530	-	4,530	335	99,275	11,890	111,165	-	2,067	3,418
Georgia .....	1,971	-	1,971	-	40,094	30,810	70,904	-	-	52
North Carolina .....	1,713	-	1,713	535	80,126	9,662	89,787	-	438	246
South Carolina .....	2,536	897	3,433	3,850	24,198	22,548	46,746	-	-	53
Virginia .....	7,948	1,956	9,904	2,993	45,064	19,026	64,090	-	-	1,057
West Virginia .....	99	-	99	-	5,545	4,091	9,635	-	-	86
<b>PAD District II Total</b> .....	<b>15,024</b>	<b>1,931</b>	<b>16,955</b>	<b>599</b>	<b>542,714</b>	<b>102,337</b>	<b>645,051</b>	-	<b>16</b>	<b>2,292</b>
Illinois .....	1,407	24	1,430	386	70,368	2,301	72,669	-	-	124
Indiana .....	91	240	331	-	28,751	15,141	43,891	-	-	180
Iowa .....	286	-	286	-	39,917	7,542	47,459	-	-	50
Kansas .....	404	-	404	115	21,749	2,087	23,836	-	-	160
Kentucky .....	1,193	415	1,609	-	35,484	6,349	41,834	-	-	144
Michigan .....	262	-	262	-	49,449	17,181	66,631	-	16	86
Minnesota .....	276	-	276	-	36,256	8,952	45,208	-	-	94
Missouri .....	740	-	740	-	45,478	9,122	54,600	-	-	89
Nebraska .....	1,117	-	1,117	-	16,279	2,215	18,495	-	-	45
North Dakota .....	500	88	588	-	7,271	947	8,218	-	-	18
Ohio .....	250	-	250	-	62,091	6,278	68,369	-	-	1,008
Oklahoma .....	509	-	509	97	32,075	3,078	35,153	-	-	74
South Dakota .....	310	284	594	-	6,378	1,178	7,555	-	-	-
Tennessee .....	1,643	174	1,817	-	54,120	11,144	65,265	-	-	153
Wisconsin .....	6,035	706	6,741	-	37,048	8,821	45,868	-	-	66
<b>PAD District III Total</b> .....	<b>111,180</b>	<b>209</b>	<b>111,389</b>	<b>1,123</b>	<b>324,602</b>	<b>70,182</b>	<b>394,783</b>	-	<b>30</b>	<b>2,338</b>
Alabama .....	534	-	534	-	17,404	23,144	40,548	-	-	55
Arkansas .....	366	209	576	-	13,190	7,167	20,357	-	-	561
Louisiana .....	1,131	-	1,131	-	74,113	5,060	79,173	-	-	1,244
Mississippi .....	2,385	-	2,385	-	17,262	14,110	31,371	-	-	66
New Mexico .....	840	-	840	-	6,516	1,115	7,631	-	30	17
Texas .....	105,924	-	105,924	1,123	196,118	19,585	215,703	-	-	394
<b>PAD District IV Total</b> .....	<b>2,283</b>	<b>959</b>	<b>3,242</b>	-	<b>132,930</b>	<b>29,951</b>	<b>162,881</b>	-	<b>27</b>	<b>293</b>
Colorado .....	1,173	-	1,173	-	54,700	3,727	58,428	-	-	280
Idaho .....	111	-	111	-	14,954	12,314	27,268	-	2	-
Montana .....	238	-	238	-	12,246	7,440	19,686	-	-	-
Utah .....	727	959	1,686	-	38,867	2,668	41,535	-	22	5
Wyoming .....	33	-	33	-	12,163	3,802	15,965	-	4	8
<b>PAD District V Total</b> .....	<b>98,303</b>	<b>7,986</b>	<b>106,289</b>	<b>4,513</b>	<b>249,117</b>	<b>103,415</b>	<b>352,532</b>	-	-	<b>580</b>
Alaska .....	5,938	5,656	11,594	-	7,946	18,503	26,449	-	-	1
Arizona .....	517	-	517	-	29,906	2,761	32,666	-	-	95
California .....	22,685	459	23,144	1,372	114,147	22,312	136,459	-	-	241
Hawaii .....	2,200	-	2,200	739	10,617	842	11,459	-	-	-
Nevada .....	1,151	-	1,151	-	9,603	1,494	11,097	-	-	1
Oregon .....	169	-	169	-	11,915	27,595	39,510	-	-	97
Washington .....	65,644	1,871	67,515	2,401	64,984	29,908	94,892	-	-	146

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 1998.

• Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1998, (DOE/EIA-0340(98)/1).

Appendix A

## **Technical Notes**

## Appendix A

# Technical Notes

### Note 1: EIA-821: Annual Fuel Oil and Kerosene Sales Report, 1998

#### 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 30,000 companies in January 1995 to collect 1994 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 con-

structed by merging and unduplicating the 1991 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 1994 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 1995 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 1998 EIA-821 data: distillate, 0.7 percent for railroad use to 15.8 percent for off-highway use; residual fuel oil, 0.0 percent for all other uses to 1.4 percent for industrial use; and kerosene, 1.8 percent for all other uses to 4.9 percent for residential use.

## Collection Methods

The EIA-821 form was mailed in January 1999 to all companies selected for participation in the 1998 reference year survey. The completed form was due to EIA on March 1, 1999. A second request was sent by certified mail to nonrespondents approximately 1 month after the filing deadline. Follow-up telephone calls were made to collect outstanding data and to verify reported data. Late submissions and resubmissions were processed when received.

## Data Processing

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

## Note 2: Reliability of the Data

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

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

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

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

Data in Tables 1 through 12 are based on survey data which are subject to sampling errors. Coefficients of variation, which are estimates of sampling errors, are presented for the retail target variables in the following table for the 1998 survey. The coefficients of variation (CV) were estimated by:

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

where:

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

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

$$\bar{V}_h = \frac{\sum_i W_i V_i}{\sum_i W_i}$$

- $\hat{V}$  = 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 1998 EIA-821 survey, the overall response rate (the number of submissions received, divided by the number of submissions solicited and expected, times 100) was 92.2 percent.

## Coefficients of Variation for Sales of Fuel Oil, 1998

Geographic Area	Residential Distillate Fuel Oil	Non-Residential Retail Distillate Fuel Oil	Retail Residual Fuel Oil
<b>U.S. Average</b> .....	<b>2.1</b>	<b>1.0</b>	<b>0.1</b>
<b>PAD District I Average</b> .....	<b>2.5</b>	<b>0.9</b>	<b>0.1</b>
<b>Subdistrict IA Average</b> .....	<b>3.2</b>	<b>1.7</b>	<b>0.0</b>
Connecticut .....	5.3	3.1	0.0
Maine .....	3.6	2.0	0.0
Massachusetts .....	7.5	4.8	0.0
New Hampshire .....	6.9	3.0	0.0
Rhode Island .....	5.7	9.0	0.0
Vermont .....	3.7	2.6	0.0
<b>Subdistrict IB Average</b> .....	<b>4.0</b>	<b>2.5</b>	<b>0.1</b>
Delaware .....	4.5	7.7	0.1
District of Columbia .....	0.5	0.1	0.0
Maryland .....	5.0	2.6	0.0
New Jersey .....	7.4	5.6	0.0
New York .....	7.4	2.1	0.1
Pennsylvania .....	6.0	5.2	0.0
<b>Subdistrict IC Average</b> .....	<b>4.3</b>	<b>1.0</b>	<b>0.1</b>
Florida .....	11.0	0.8	0.0
Georgia .....	22.3	3.8	0.0
North Carolina .....	4.9	3.1	0.2
South Carolina .....	5.1	4.5	0.0
Virginia .....	7.2	1.9	1.1
West Virginia .....	8.0	2.0	0.0
<b>PAD District II Average</b> .....	<b>3.9</b>	<b>0.9</b>	<b>0.1</b>
Illinois .....	10.8	5.7	0.0
Indiana .....	7.9	2.0	0.0
Iowa .....	13.0	3.6	0.0
Kansas .....	19.0	4.7	0.0
Kentucky .....	15.7	2.7	0.0
Michigan .....	8.1	2.0	0.0
Minnesota .....	11.4	5.3	0.0
Missouri .....	6.7	2.1	0.0
Nebraska .....	23.2	2.6	0.0
North Dakota .....	8.1	3.7	0.3
Ohio .....	8.1	1.8	0.0
Oklahoma .....	84.5	4.8	1.8
South Dakota .....	7.9	3.1	0.0
Tennessee .....	15.1	1.7	0.1
Wisconsin .....	12.6	4.4	0.0
<b>PAD District III Average</b> .....	<b>7.7</b>	<b>5.0</b>	<b>0.0</b>
Alabama .....	6.1	3.5	0.0
Arkansas .....	56.2	3.3	0.0
Louisiana .....	43.4	8.7	0.0
Mississippi .....	50.7	4.0	0.0
New Mexico .....	4.1	3.3	0.0
Texas .....	0.0	7.8	0.0
<b>PAD District IV Average</b> .....	<b>22.1</b>	<b>0.7</b>	<b>0.0</b>
Colorado .....	12.0	0.7	0.0
Idaho .....	7.3	2.5	0.0
Montana .....	48.3	2.4	0.0
Utah .....	10.1	1.9	0.0
Wyoming .....	9.4	2.0	0.0
<b>PAD District V Average</b> .....	<b>3.3</b>	<b>1.9</b>	<b>0.1</b>
Alaska .....	7.8	2.0	0.0
Arizona .....	11.9	3.2	0.0
California .....	11.1	5.4	0.3
Hawaii .....	21.0	5.2	0.0
Nevada .....	4.8	2.2	0.0
Oregon .....	6.1	3.6	0.0
Washington .....	3.8	2.1	0.1

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 1998.

## 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 1994 through 1998 special fuels, more than 98 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 1994 through 1998 special fuels, more than 98 percent is diesel.

### 1994 through 1998 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 1998 survey resulted in 660,064 thousand gallons of kerosene at the national level. The products supplied volume at the national level for kerosene was 1,196,580 thousand gallons. Hence, the adjustment factor at the national level for 1998 was 1.81.

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 1998 are as follows:

#### Distillate Fuel Oil

- PAD District I: .97
- PAD District II: .94
- PAD District III: .66
- PAD District IV: 1.09
- PAD District V: .88

For Tables 13 through 24, total sales at the PAD district level equal the products supplied volumes as reported in the PSA, 1994 through 1998. For example, the 1998 survey yielded a volume for distillate residential use in PAD District II of 659,306 thousand gallons. The total distillate volume for PAD District II was 6,458,913 from the survey, after subtracting the volume coming from alternate sources. The product supplied total distillate volume for PAD District II was 6,078,612 after removing alternate source volume. Hence, the adjusted 1998 estimate of distillate for residential use in PAD District II was  $(6,078,612/6,458,913) \times 659,306 = 620,486$ .

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 1998 survey yielded 14,729,841 thousand gallons of residual fuel oil, while the products supplied volume at the national level was 13,599,558 thousand gallons. Thus, the adjustment factor at the national level for 1998 was .83, 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**

# Appendix B

EIA-821 (12-98)

U.S. DEPARTMENT OF ENERGY  
Energy Information Administration

Form Approved  
OMB Number: 1905-0174  
Form Expires: 12/31/99

## EIA-821: ANNUAL FUEL OIL AND KEROSENE SALES REPORT

This report is mandatory under Public Law 93-275. For the provisions concerning the confidentiality of information and sanctions, see Sections V and VI of the instructions.

### PART I. IDENTIFICATION DATA

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

Provide Corrections to Company Name, Telephone Number, and Address in Items 1-8									
1. Company Name		4. Street							
2. Name of Contact Person		5. P.O. Box / RFD							
3. Contact's Telephone Number <div style="display: flex; justify-content: space-between; align-items: center;"> <span>[ ][ ][ ][ ] - [ ][ ][ ][ ] - [ ][ ][ ][ ][ ]</span> </div>		6. City	7. State						
		8. Zip Code							
9. Reference Year <b>1998</b>	10. Type of Report (Check One) (1) <input type="checkbox"/> Original    (2) <input type="checkbox"/> Resubmission		11. The Number of States for Which You Are Reporting <div style="display: flex; justify-content: flex-end; align-items: center;"> <span>[ ][ ]</span> </div>						
12. Which of the following best describes this firm at the end of 1998? a. <input type="checkbox"/> In operation - Sales include petroleum products b. (1) <input type="checkbox"/> Sold or Merged (2) <input type="checkbox"/> Leased c. <input type="checkbox"/> Permanently ceased operation d. <input type="checkbox"/> Subsidiary of another e. <input type="checkbox"/> Commissioned Agent f. <input type="checkbox"/> Not in petroleum business		13. Effective Date of Status Change <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th style="width: 25%;">Month</th> <th style="width: 25%;">Day</th> <th style="width: 25%;">Year</th> </tr> </thead> <tbody> <tr> <td>[ ][ ]</td> <td>[ ][ ]</td> <td>[ ][ ]</td> </tr> </tbody> </table>		Month	Day	Year	[ ][ ]	[ ][ ]	[ ][ ]
Month	Day	Year							
[ ][ ]	[ ][ ]	[ ][ ]							
Skip to and complete items 22-25 and Part II Complete items 13 to 25, and Part II for that portion of 1998 in which the firm was active under your ownership and control Complete item 13, then skip to and complete items 22-25 and Part II for the portion of 1998 in which the firm was active under your ownership and control Complete items 13 to 25, and Part II for that portion of 1998 in which the firm was active under your ownership and control Skip to and complete items 22-25		14. Name of Company Sold to / Leased to / Merged into / Subsidiary of / Agent for:							
		15. Name of Contact Person							
		16. Contact's Telephone Number <div style="display: flex; justify-content: space-between; align-items: center;"> <span>[ ][ ][ ][ ] - [ ][ ][ ][ ] - [ ][ ][ ][ ][ ]</span> </div>							
		17. Street							
		18. PO Box / RFD							
		19. City	20. State						
		21. Zip Code							
<b>PREPARED BY:</b> <i>Check appropriate box. If preparer is different from contact person, complete lines 24 and 25.</i>									
22. <input type="checkbox"/> Preparer same as contact person shown on label		23. Date							
24. <input type="checkbox"/> Preparer's Name		25. Preparer's Telephone number							
Public reporting burden for this collection of information is estimated to average 3.2 hours per response, including the time of reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Energy Information Administration, Statistical Methods Group E1-73, 1000 Independence Ave. SW, Washington, DC 20585; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.									

Name of Firm Reporting		DOE ID Number	Reference Year <b>1998</b>	Page _____ of _____
<b>PART II. TOTAL SALES DURING THE REFERENCE YEAR. (READ PAGES 2-5 OF INSTRUCTIONS CAREFULLY)</b>				
Line No.	Type of Fuel and Use	States of Destination (Enter STANDARD ABBREVIATIONS)		
Sold directly to consumers for		<b>Kerosene (Report in Actual Gallons)</b>		
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	<b>Total Kerosene (Add Lines 1 thru 6)</b>			
Sold directly to consumers for		<b>Distillate Fuel Oil (Report in Actual Gallons)</b>		
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 <b>1998</b>	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			
Electric Utility Use:				
Farm Use:				
26	Diesel			
27	Other Distillate			
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	<b>Total Distillate (Add Lines 8 thru 32)</b>			

**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):			
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	<b>Total Residual (Add Lines 34 thru 42)</b>			

Name of Firm Reporting		DOE ID Number	Reference Year <b>1998</b>		Page _____ of _____		
<b>PART II. TOTAL SALES DURING THE REFERENCE YEAR. (READ PAGES 2-5 OF INSTRUCTIONS CAREFULLY)</b>							
Line No.	Type of Fuel and Use	States of Destination (Enter STANDARD ABBREVIATIONS)					
<b>Motor Gasoline -- Include Gasohol (Report in Actual Gallons)</b>							
		Conventional	Reformulated	Conventional	Reformulated	Conventional	Reformulated
44	Sold directly to the Ultimate Consumer (Include All grades of Gasoline) (Exclude No. 2 Diesel and Aviation Gasoline):						
45	Sold to Dealers, Resellers, and Refiners (Include Rack and DTW Sales):						
46	<b>Total Motor Gasoline (Add Lines 44 and 45)</b>						
<b>Propane (Report in Actual Gallons)</b>							
47	Delivered Residential Propane:						
48	Sold to Customers for All Other End Uses:						
49	Sold to Dealers, Resellers, and Refiners:						
50	<b>Total Propane (Add Lines 47 thru 49)</b>						
51 Does this firm sell any of these petroleum products? Check boxes for all that you sell.							
a. <input type="checkbox"/> No. 1 Distillate		b. <input type="checkbox"/> Crude Oil		c. <input type="checkbox"/> Other LPG		d. <input type="checkbox"/> No. 4 Fuel Oil	
e. <input type="checkbox"/> Aviation Gasoline		f. <input type="checkbox"/> Jet Fuel		g. <input type="checkbox"/> Other: _____ <i>(Specify)</i>			
52 Does this firm sell and/or use propane for on-highway transportation use? Check appropriate box(es).							
a. <input type="checkbox"/> Sell		b. <input type="checkbox"/> Use		c. <input type="checkbox"/> No			
Send the completed form to: <b>U.S. Department of Energy</b> <b>Energy Information Administration (EIA-821)</b> <b>P.O. Box 833</b> <b>Merrifield, VA. 22116-0833</b>							
or telefax completed form by calling: <b>1(703) 827-9514, Attn: EIA-821</b>							