DOE/EIA-0535(96)
Distribution Category UC-950

Fuel Oil and Kerosene Sales 1995

August 1996

Energy Information Administration
Office of Oil and Gas
U.S. Department of Energy
Washington DC 20585

This report was prepared by the Energy Information Administration, the independent statistical and analytical agency within the Department of Energy. The information contained herein should not be construed as advocating or reflecting any policy position of the Department of Energy or any other organization.

Contacts

The *Fuel Oil and Kerosene Sales 1995* report is prepared by the Energy Information Administration (EIA) under the general direction of Michael Griffey (202) 586-9601, Petroleum Marketing Division, Office of Oil and Gas.

Detailed, technical questions about tables referencing the form EIA-821 may be directed to:

Alice Lippert (202) 586-9600

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 1995* 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.

For obtaining ***Fuel Oil and Kerosene Sales* personal computer diskette** by mail, order from:

Office of Scientific and Technical Information
Request Services
P.O. Box 62
Oak Ridge, Tennessee 37831
(615) 576-8401

National Technical Information Service (NTIS)
Office of Data Base Services
U.S. Department of Commerce
5285 Port Royal Road
Springfield, Virginia 22161
(703) 487-4650

The ***Fuel Oil and Kerosene Sales*** diskette is in ASCII text format on a double-sided high-density 3.5 inch diskette for use with IBM-compatible personal computers.

Internet Addresses:

E-Mail: infoctr@eia.doe.gov
World Wide Web Site: http://www.eia.doe.gov
Gopher Site: gopher://gopher.eia.doe.gov
FTP Site: ftp://ftp.eia.doe.gov

Further information as to content may be obtained from the National Energy Information Center (NEIC), telephone (202) 586-8800.

Contents

Page

Introduction 1

Sales of Fuel Oil and Kerosene in 1995 3

Residual Fuel Oil Use Continues to Plummet 11

Adjusted Sales of Fuel Oil and Kerosene in 1995 29

Appendix: Technical Notes 47

Page

Tables

Sales of Fuel Oil and Kerosene in 1995

1. Sales of Distillate Fuel Oil by End Use in the United States: 1991-1995 13
2. Sales of Residual Fuel Oil by End Use in the United States: 1991-1995 14
3. Sales of Kerosene by End Use in the United States: 1991-1995 14
4. Sales of Distillate Fuel Oil by End Use, 1994 and 1995. 15
5. Sales of Residual Fuel Oil by End Use, 1994 and 1995 19
6. Sales of Kerosene by End Use, 1994 and 1995 21
7. Sales for Residential Use: Distillate Fuel Oil and Kerosene, 1995 23
8. Sales for Commercial Use: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 1995 24
9. Sales for Industrial Use: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 1995 25
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, 1995 26
11. Sales for Transportation Use: Distillate Fuel Oil and Residual Fuel Oil, 1995 27
12. Sales for Military, Off-Highway, and All Other Uses: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 1995 28

Adjusted Sales of Fuel Oil and Kerosene in 1995

13. Adjusted Sales of Distillate Fuel Oil by End Use in the United States: 1991-1995 30
14. Adjusted Sales of Residual Fuel Oil by End Use in the United States: 1991-1995. 31
15. Adjusted Sales of Kerosene by End Use in the United States: 1991-1995 31
16. Adjusted Sales of Distillate Fuel Oil by End Use, 1994 and 1995. 32
17. Adjusted Sales of Residual Fuel Oil by End Use, 1994 and 1995 36
18. Adjusted Sales of Kerosene by End Use, 1994 and 1995. 38
19. Adjusted Sales for Residential Use: Distillate Fuel Oil and Kerosene, 1995 40
20. Adjusted Sales for Commercial Use: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 1995 41

Page

21. Adjusted Sales for Industrial Use: Distillate Fuel Oil, Residual Fuel Oil and Kerosene, 1995 42

22. Adjusted Sales for Farm Use: Distillate Fuel Oil and Kerosene; Adjusted Sales for Electric Utility and Oil Company Uses: Distillate Fuel Oil and Residual Fuel Oil, 1995 43

23. Adjusted Sales for Transportation Use: Distillate Fuel Oil and Residual Fuel Oil, 1995 44

24. Adjusted Sales for Military, Off-Highway, and All Other Uses: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 1995 45

Introduction

This publication contains the 1995 survey results of the "Annual Fuel Oil and Kerosene Sales Report" (Form EIA-821). This is the seventh year that the survey data have appeared in a separate publication. Prior to the 1989 report, the statistics appeared in the *Petroleum Marketing Annual* (PMA) for reference year 1988 and the *Petroleum Marketing Monthly* (PMM) for reference years 1984 through 1987. The 1995 edition marks the 12th annual presentation of the results of the ongoing "Annual Fuel Oil and Kerosene Sales Report" survey.

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 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.

Sales of Fuel Oil and Kerosene in 1995

Similar to 1994, distillate and residual fuel oil sales continued to move in opposite directions. Distillate sales rose 2.1 percent over 1994 while residual fuel oil sales fell 16.9 percent. A growing economy spurred distillate growth. On the other hand, warm weather and competitive prices of alternative fuels reduced residual fuel oil sales to their lowest level since 1938.

Distillate Fuel Oil

The transportation sector, consisting of on-highway, vessel bunkering and railroad uses, continued to dominate distillate sales with 60.9 percent of total distillate sales. A strong economy, reflected in the 4.6 percent increase (in current dollars) in the Gross Domestic Product (GDP), pushed distillate sales in the transportation sector up 5.3 percent in 1995, as demand for delivery of goods and services increased. At 25.6 billion gallons, on-highway diesel sales increased 4.6 percent to 81.6 percent of distillate in the transportation sector and 49.7 percent of all distillate sales.

Sales of distillate to railroads also increased in 1995 to 3.4 billion gallons, up 288 million gallons.[1] This demand was driven by an 8.3 percent increase in the ton-miles of cargo moved on railroads in 1995 according to the American Association of Railroads. Vessel bunkering increased as well to over 2.3 billion gallons, an increase of 150 million gallons or 6.8 percent in 1995. This increase was due to more movement of cargo (in ton-miles) on U.S. waterways according to the U. S. Army Corps of Engineers.

Distillate sales to residential customers for home heating were down 5.2 percent in 1995, primarily due to one of the mildest winters on record in the first quarter of 1995. Although the last quarter of 1995 was colder than the last quarter of 1994, this did not make up for the extremely low demand in the first part of 1995. Overall residential sales were only 6.9 billion gallons in 1995, which was the lowest since 1991. Approximately 13.3 percent of all distillate sales in 1995 were for residential use and 82.7 percent of those sales were in PAD District I.

Table HL1. Volume Distribution of Distillate and Residual Fuel Oils, 1994 and 1995

End Use	Distillate 1995		Distillate 1994		Residual 1995		Residual 1994	
	Volume (million gallons)	Percent Share	Volume (million gallons)	Percent Share	Volume (million gallons)	Percent Share	Volume (million gallons)	Percent Share
Residential	6,860	13.3	7,234	14.4	--	--	--	--
Commercial	3,631	7.1	3,775	7.5	923	7.5	1,061	7.2
Industrial	2,239	4.3	2,269	4.5	1,978	16.1	2,337	15.8
Oil Company	687	1.3	675	1.3	211	1.7	243	1.6
Farm	3,476	6.8	3,270	6.5	--	--	--	--
Electric	597	1.2	664	1.3	3,262	26.5	5,729	38.6
Railroad	3,429	6.7	3,141	6.2	--	--	--	--
Vessel Bunkering	2,339	4.5	2,189	4.3	5,886	47.8	5,386	36.3
On-Highway	25,576	49.7	24,443	48.5	--	--	--	--
Military	462	0.9	610	1.2	51	0.4	62	0.5
Off-Highway	2,173	4.2	2,153	4.3	--	--	--	--
Other	0	0.0	1	0.0	7	0.0	6	0.0
Total	51,469	100.0	50,424	100.0	12,318	100.0	14,825	100.0

Sources: Energy Information Administration, Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," 1994 and 1995.

[1]A respondent omitted 65 million gallons of distillate for railroad use in Kansas on the 1994 report. If that volume had been counted in Kansas, the over 1994 would have been 223 million gallons.

Commercial use distillate decreased 3.8 percent in 1995 which equates to a drop of 144 million gallons. The biggest drop came in No. 2 fuel oil (used primarily for heating) which dropped 230 million gallons (down 13.4 percent) primarily due to the warmer winter of early 1995. Approximately 10 percent of the drop (i.e., over 20 million gallons) was due to a switch by several large fuel oil dealers to selling high sulfur diesel instead of fuel oil. Even with those additional gallons, high sulfur diesel was off as well, down 43 million gallons or 8.6 percent. This reflects a gradual move away from high sulfur toward low sulfur diesel.

Low sulfur diesel use increased 209 million gallons or 21.3 percent in 1995 partially due to the movement away from high sulfur diesel. Steady use of on-highway diesel by governments and an increase in diesel use by transit authorities also led to the increase. Use of No. 1 distillate (for heating, in buses, and blended into government vehicles when the weather is extremely cold) was also down significantly, off 83 million gallons or 40.4 percent from 1994 due to the milder winter. The reduction in No. 1 distillate use on-highway also explains some of the increase in demand for low sulfur No. 2 diesel.

Due to a 4.1 percent increase in the use of natural gas by industrial users, industrial use of distillate was down 1.3 percent in 1995 even though industrial production was up.[2] More natural gas was available due to increased pipeline capacities and milder weather which caused fewer gas interruptions. With a significant price advantage over distillate, natural gas is the preferred alternative for industrial users.

Farm use of distillate at 3.5 billion gallons was up 6.3 percent despite the total area planted (in principal crops) being down by 1.7 percent in 1995. Some of the increase in fuel use was due to requirements to replant more corn and wheat in 1995 with an over abundance of rainfall and localized flooding in the spring; some cotton fields also required more replanting due to hail storms in Texas.[3] A major reason for the overall increase in diesel fuel use had to do with the 23.4 percent increase in the acreage planted in cotton.[4] Most of the major increases in diesel fuel use occurred in the cotton belt, in States such as Texas, Arkansas, and Georgia. The major reductions in diesel fuel use took place primarily in the corn belt States (in particular, Iowa and Nebraska) since corn acreage planted was off 10.0 percent in 1995.[5]

Off-Highway use at 2.2 billion gallons was only up 19 million gallons or 0.93 percent in 1995. This increase was small because private expenditures for construction were only up 1.9 percent in 1995.[6] Any government use of fuel for construction is categorized under military or commercial end-use.

Oil company use at 687 million gallons was up 1.7 percent in 1995 despite an apparent decrease in drilling activities in the United States. The main reason for the increase in diesel fuel use was due to changes in drilling techniques and technology. More wells are being drilled using air erosion (which is very diesel fuel intensive) rather than utilizing the traditional auger and more horizontal drilling occurred which uses significantly more fuel than vertical drilling. Some of the increase in diesel use was also driven by the 2.8 percent growth in active well servicing units and the growth in the number of exploratory oil and gas wells which were up 22.9 and 6.3 percent respectively.[7] Spacing regulations between rigs were also reduced which allowed rigs to move shorter distances and hence drill additional wells more frequently. Oil company use would have been up significantly if the total number of rotary rigs in operation had not gone down so much (i.e., by 6.7 percent) and total footage drilled was not off so dramatically (by 15.0 percent).[8]

Electric utility distillate sales were down 10.0 percent in 1995 to 597 million gallons, a drop of 66 million gallons. This decrease was primarily due to the mild weather in the first quarter of 1995 which significantly reduced demand for peak use diesel fired generation units. Demand for such units was at a premium during the first quarter of 1994 when a severe cold snap gripped the Northeast and Midwest.

[2]Manufacturing was up 3.4 percent, while mining was off 0.39 percent in 1995 according to *Economic Indicators*, July 1996.

[3]Overall expenditures for all fuels for farm use was up 7.8 percent in 1995 according to *Farm Production Expenditures 1995 Summary*, July 1996, put out by the Agricultural Statistics Board, National Agricultural Statistics Service (NASS), of the U.S. Department of Agriculture (USDA). Part of the increase was due to higher fuel prices, the rest was increased demand.

[4]Acreage planted figures come from the *Annual Crop Summary*, Agricultural Statistics Board, NASS, USDA, January 1996.

[5]Ibid.

[6]*Economic Indicators*, April 1996.

[7]*Monthly Energy Review*, June 1996, Table 5.1.

[8]Ibid

Military distillate use dropped 149 gallons in 1995 to 462 million gallons due to continued downsizing of the military and reduced military training operations. This 462 million gallons is the lowest annual amount of distillate used by the military since 1960.

Residual Fuel Oil

In 1995, residual fuel oil sales in the United States decreased for the sixth year in a row, dropping a dramatic 16.9 percent from the previous year to its lowest level in 57 years.[9] Residual fuel oil sales dropped from 14.8 billion gallons in 1994 to 12.3 billion gallons in 1995. See the feature article on page 11 for more detail on why residual fuel oil sales have continued to drop dramatically throughout the 1990s.

Vessel bunkering use captured 47.8 percent of the residual fuel oil market in 1995, surpassing electric utility use as the primary end use for this fuel. The increase in vessel bunker market share was primarily due to weak demand for residual fuel oil at electric utilities. Vessel bunkering use, at 5.9 billion gallons, was up 9.3 percent. The competitive prices in Los Angeles and Houston in 1995 compared to prices in Singapore and Rotterdam also helped to increase sales. Reduced demand for the fuel in other sectors of the economy also made the fuel more available for bunkering.

In 1995, electric utilities accounted for 26.5 percent of all residual fuel oil sales, down from the 38.6 percent market share in 1994. Sales dropped an extraordinary 43.1 percent last year, going from 5.7 billion gallons to only 3.3 billion gallons. The variety of factors that contributed to this massive decline in demand are outlined below.

The primary factor was the mild winter in early 1995 compared to the bitterly cold winter in early 1994. Although demand for electricity is highest when temperatures are hot, demand for residual fuel oil is usually highest when it is extremely cold. The reason is that the key alternative to residual fuel oil as the peak load fuel for electricity generation (i.e., natural gas) is typically unavailable to utilities. Natural gas interruptions occurred frequently in 1994 and were rare in 1995.

Price also had a major impact. For five months in 1994, the average U.S. price for residual fuel oil was less than the price of natural gas; the monthly average U.S. price for residual fuel oil was never less than natural gas in 1995 (*Electric Power Monthly*, July 1996, p. 39). A significant increase in the availability of most of the less costly alternative fuels (such as hydroelectric, nuclear, natural gas, and coal) also reduced demand in 1995. Table HL2 illustrates this change.

Industrial remained the third largest end use category for residual fuel oil with sales of 1.9 billion gallons in 1995. Like electric utility, industrial use dropped dramatically in 1995, 15.4 percent. The two main reasons for the volume decrease in 1995 were increased availability of natural gas in 1995 and the significantly lower cost of natural gas compared to residual fuel oil (in 1995).

Commercial use of residual fuel oil dropped 13.1 percent in 1995 to 923 million gallons. Decreased need for heating in 1995 was the primary reason for the drop, although some of the drop is due to a gradual decline in the number of apartment buildings and commercial facilities heated with residual fuel.

Oil company use of residual fuel oil was down 12.9 percent in 1995 from 243 million to 211 million gallons. Since fewer refineries are producing this fuel, and the cost of other fuels is typically less, refineries are using less residual fuel oil for operations.

Table HL2. Electric Utility Net Generation of Electricity
(Million Kilowatt Hours)

Year	Petroleum	Hydro-Electric	Nuclear	Natural Gas	Coal
1994	91,039	243,693	640,440	291,115	1,635,493
1995	60,844	293,653	673,402	307,306	1,652,914
Change	-30,195	+49,950	+32,962	+16,191	+17,421

Source: *Electric Power Monthly*, July 1996, p. 12.

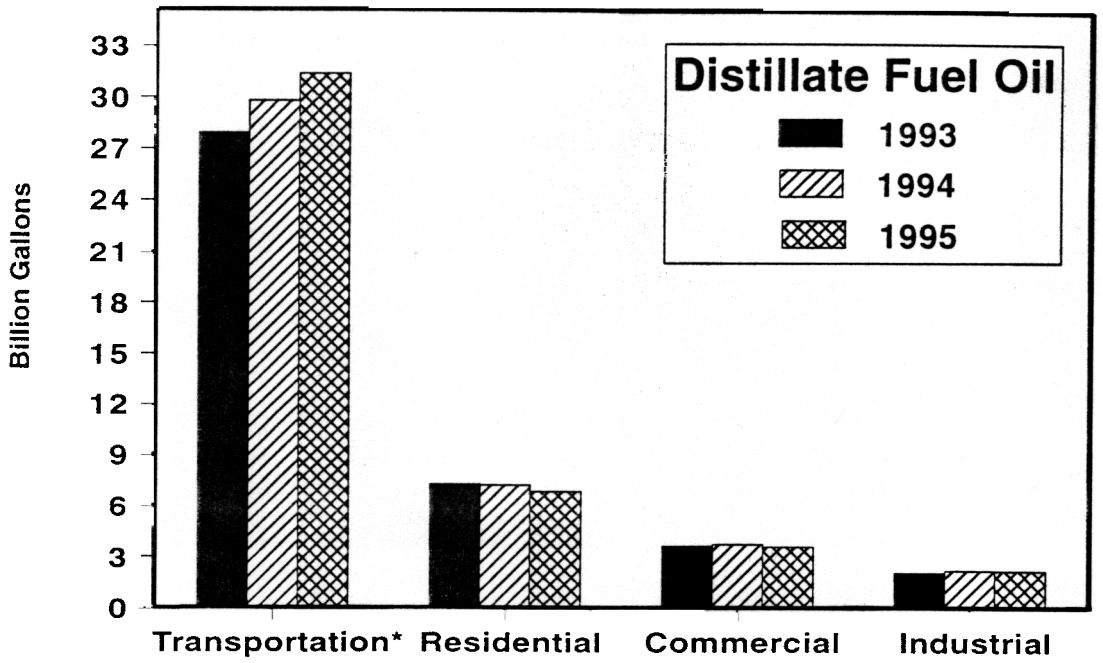
[9]According to U.S Bureau of Mines statistics, the last time sales were lower was 1938, after the big oil boom of 1937 went bust, and the resulting stock drawdown in 1938 left sales at slightly less than 12.3 billion gallons.

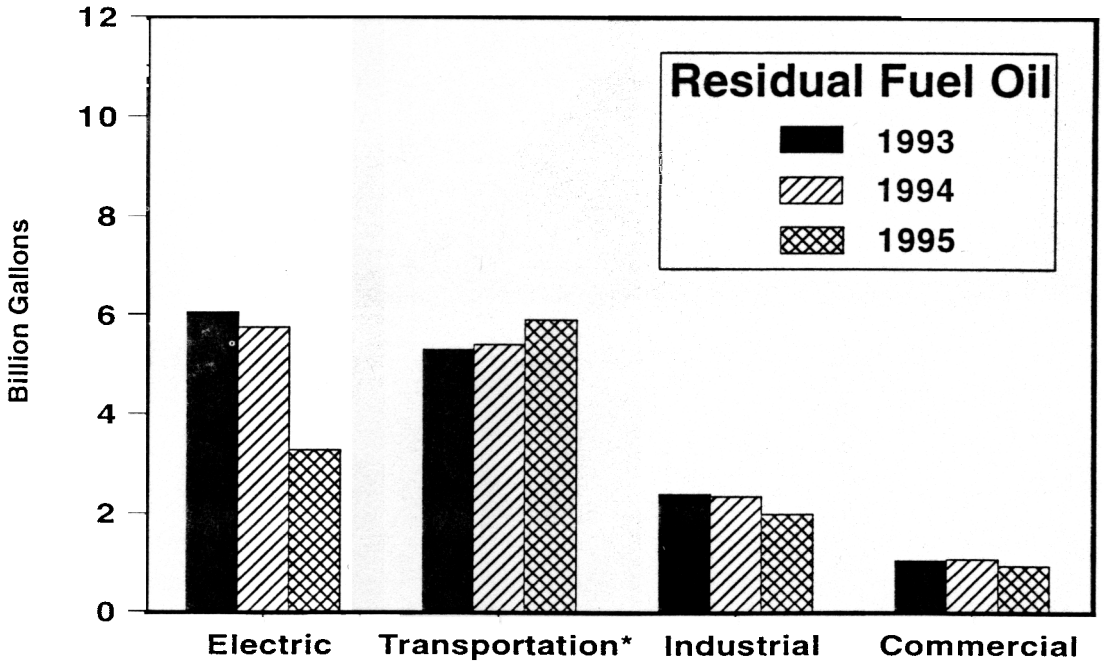
Military use dropped 17.8 percent to only 51 million gallons as many older fuel oil ships are being mothballed and few new ships are entering service. Many of the bases that have residual fuel oil burners have been closed down as well. Military use of residual fuel oil appears to be the lowest it has been since prior to World War I, when steam ships were fired by coal.

Kerosene

Total U.S. kerosene sales increased 10.4 percent in 1995. Increases were observed in the residential and commercial end-use sectors. Residences continued to use the majority of kerosene, with a 66.4 percent of all kerosene sales.

Figure HL1. U.S. Sales of Distillate and Residual Fuel Oils by End Use, 1993-1995

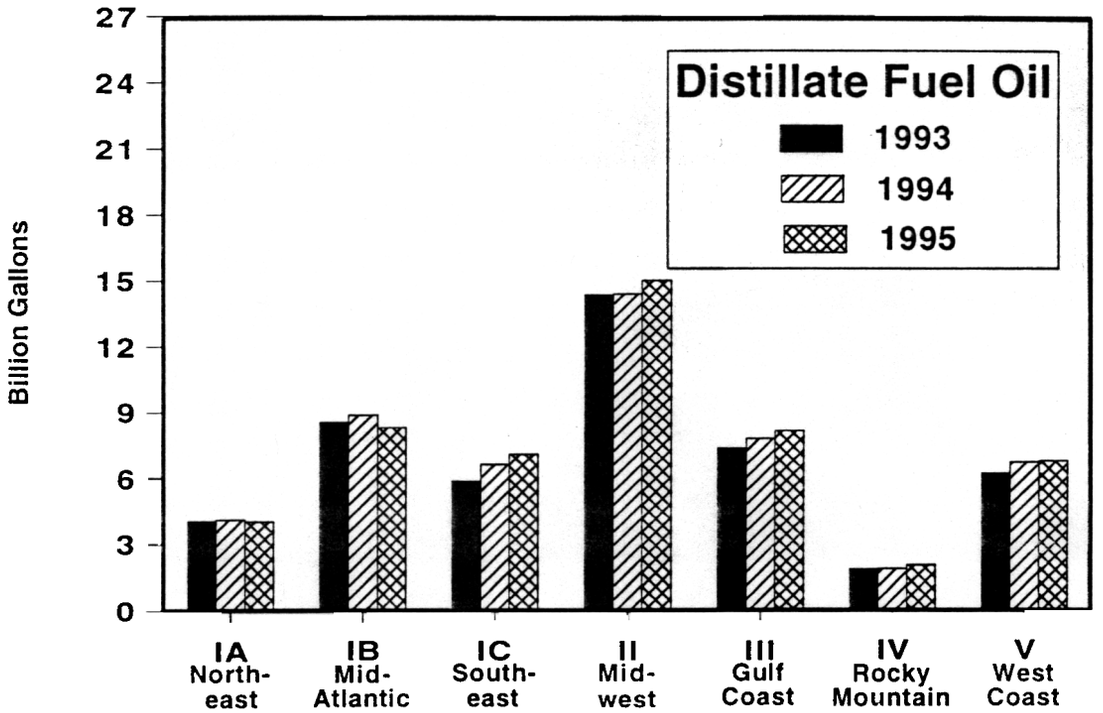


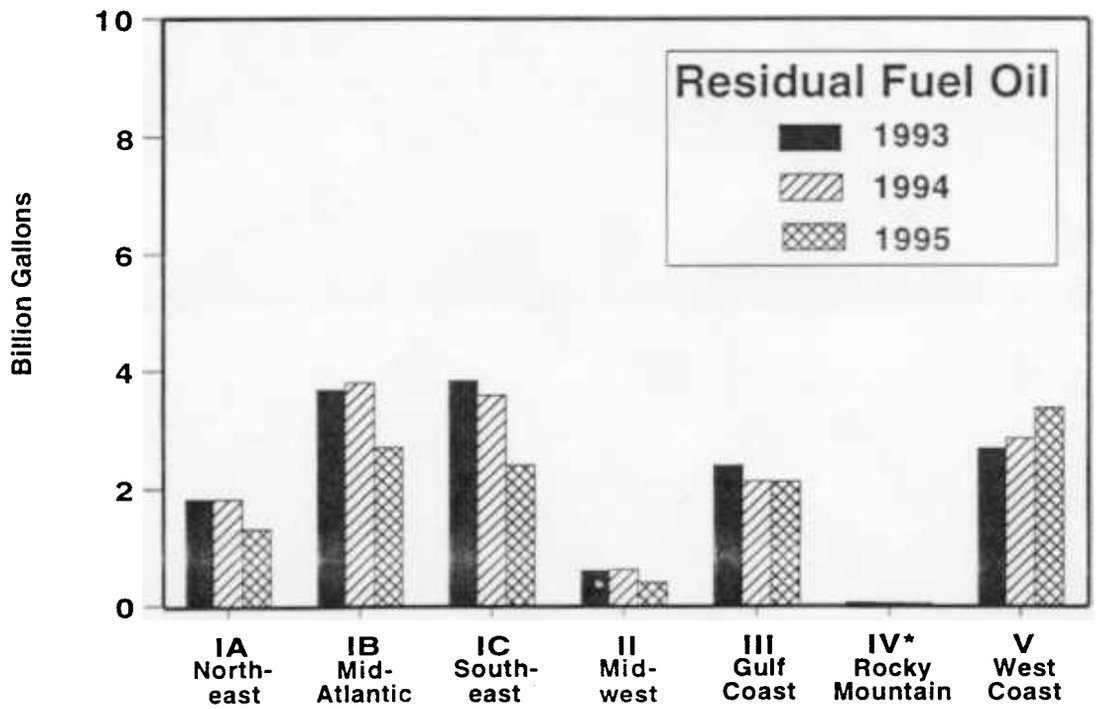


*For distillate fuel oil, transportation use comprises railroad, vessel bunkering, and on-highway diesel end-use categories. For residual fuel oil, transportation use comprises the vessel bunkering end-use category.

Sources: Energy Information Administration, Form EIA-821, "Fuel Oil and Kerosene Sales Report," 1994 and 1995.

Figure HL2. Volume Distribution of Distillate and Residual Fuel Oils by PAD District, 1993-1995

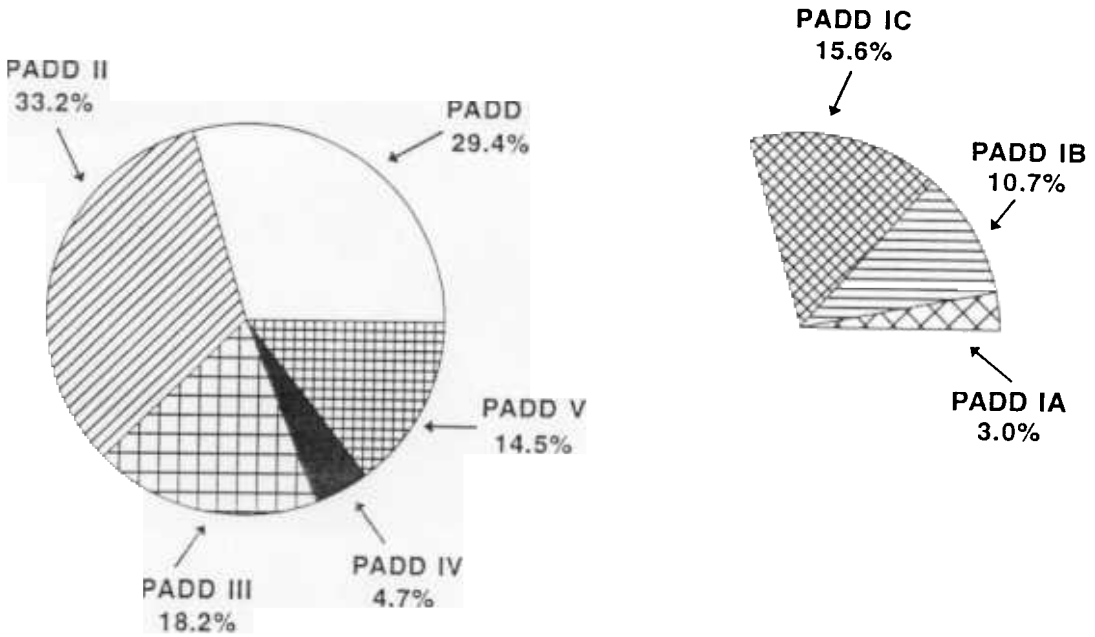




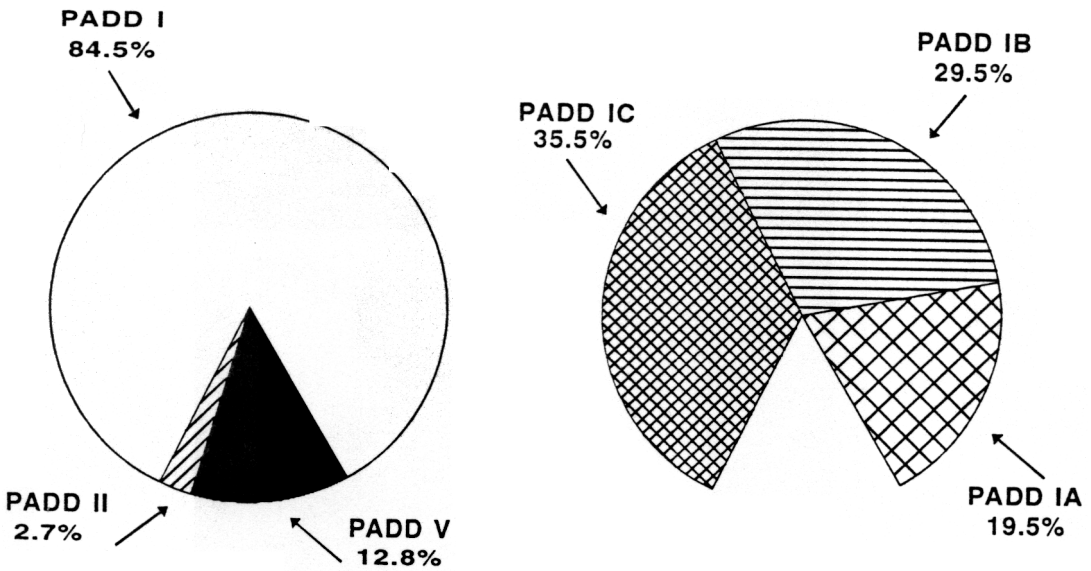
*Residual fuel oil sales in PAD District IV are too small to appear in this graph.
Sources: Energy Information Administration, Form EIA-821, "Fuel Oil and Kerosene Sales Report," 1994 and 1995.

Figure HL3. Distillate and Residual Fuel Oil Sales for Selected End-Use Categories by PAD District, 1995

Distillate: Transportation



Residual: Electric Utility



Source: Energy Information Administration, Form EIA-821, "Fuel Oil and Kerosene Sales Report," 1995.

Residual Fuel Oil Use Continues To Plummet

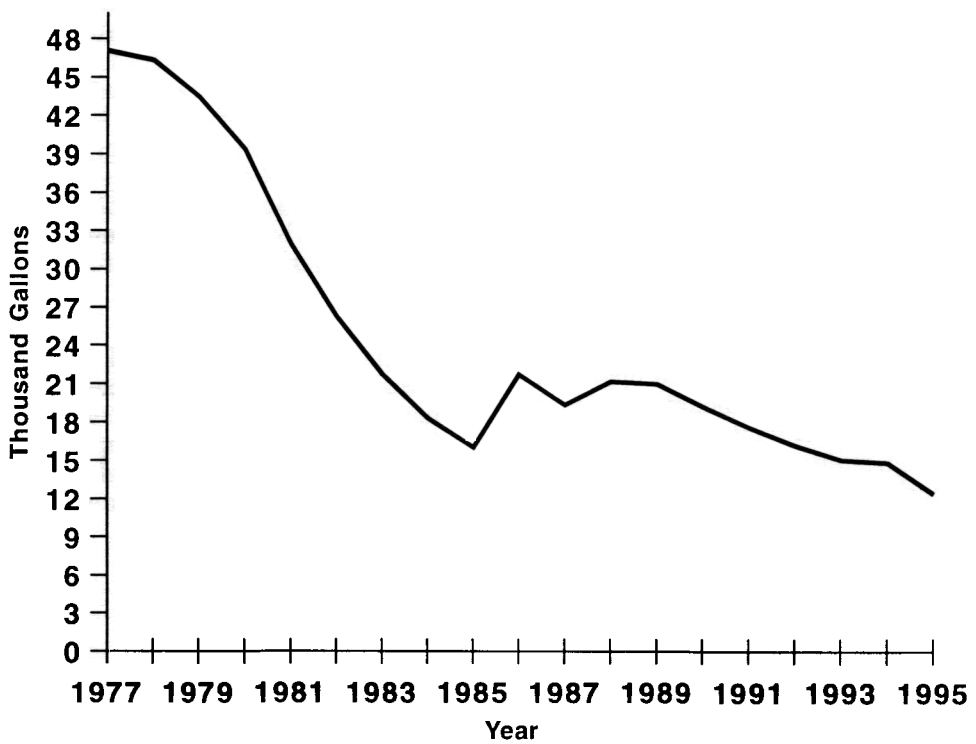
In 1995, residual fuel oil sales in the United States decreased for the sixth year in a row, dropping a dramatic 16.9 percent from the previous year to the lowest level in 57 years.[1] Residual fuel oil sales (1) dropped from 14.8 billion gallons in 1994 to 12.3 billion gallons in 1995, (2) are off 43.6 percent since 1989, when sales were 21.8 billion gallons, and (3) decreased 73.8 percent since their peak in 1977 when sales were 47.1 billion gallons.

Figure FE1 illustrates the declining sales of residual fuel oil since their peak in 1977. The three main factors that have led to this long term decline -- price, availability of alternatives, and environmental regulations -- are discussed below. It is important to note that the most important factor affecting short-term demand is the weather.

Price

The price of residual fuel oil and its alternatives plays a critical role in demand. The anticipation of low fuel costs drove utilities to build many residual fuel oil burning power plants in the 1960s and early 1970s. The low prices during those times and the building of the new plants increased residual fuel oil demand at utilities from 3.8 billion gallons in 1963 to 23.9 billion gallons by 1977. The large increase in price in 1974, coupled with the oil embargo, began to put a damper on this electric utility use growth trend. These events also reversed what had been growing demand for heating (apartments mainly), industrial use, and vessel bunkering. Utility, industrial, and bunkering demand recovered temporarily and even rose for a few years,

Figure FE1. Residual Fuel Oil Sales, 1977-1995



[1]The last time sales were lower was 1938, after the big oil boom of 1937 went bust, and the resulting stock drawdown in 1938 left sales at only 12.26 billion gallons.

but the 1979 price increases ended once and for all the rising trend for residual fuel oil. Demand in fact plunged as prices went higher in the early 1980s. A temporary reversal did not occur again until the crash of oil prices in 1986. Part of the reason for steady (rather than falling) demand in 1988 was favorable residual fuel oil prices compared to natural gas. Competitive prices to electric utilities in 1992, 1993, and 1994 also helped slow the drop in residual fuel oil demand.

Price plays an even more important factor in the vessel bunkering market; when California raised taxes on bunkering in 1993, demand in this sector took a dramatic plunge.

Availability of Alternatives

The increased availability of coal and nuclear electric power over the past twenty years has played a significant role in greatly reducing the demand for residual fuel oil. Comparing 1977 to 1995 in terms of billion kilowatt-hours generated, coal increased 677 and nuclear 397; petroleum was down 297 (*Annual Energy Review* 1995, July 1996). This increasing share of electricity being produced by coal and nuclear power has allowed natural gas to take more market share from residual fuel oil in the commercial and industrial sectors. No alternatives exist for residual fuel oil in the vessel bunkering market.

Environmental Regulations

The Clean Air Act Amendments (CAAA) of 1990 and the Oil Pollution Act of 1992 are two of the main environmental laws that have led to reduced demand for residual fuel oil. The CAAA of 1990 mandated reduction in various pollutants in fuels and in emissions from stationary sources. To produce the fuels required costly upgrades to refineries, which increased the costs of all petroleum products. These upgrades have also substantially reduced the amount of residual fuel oil that is produced, which tends to increase the price as well. Some high sulfur residual fuel oil is still produced, but the markets for it are limited.

The Oil Pollution Act of 1992 requires various measures to reduce the chances of and the damage from oil spills from tankers. It also requires tanker owners to have a substantial amount of liability insurance. These rules have driven some bunker oil dealers out of the business, and discouraged tanker operators from stopping in U.S. ports for fuel. Bunker sales in the United States remain steady due to lack of alternative fuels and competitive prices with foreign ports.

Prospects for the Future

Residual fuel oil use will continue its downward trend in the commercial sector, since apartment buildings are simply not being built with residual fuel oil burners. A similar tend will be evident in the industrial sector for the same reason, although there may be swings upward occasionally in residual fuel oil demand, when the price is low enough; the slope downward will also be less steep since industrial facilities tend to have longer life spans than do apartment buildings.

Bunker sales in the United States should remain more stable than the commercial and industrial sectors, but will probably be reduced slowly over time as larger vessels with more efficient engines come onto the market and ships more efficiently utilize their cargo capacities.

The electric utility sector should continue to decrease its demand for residual fuel oil as more natural gas and coal plants come on line. The deregulation of the utility industry should also reduce demand; utilities will be reluctant to use a more expensive fuel like residual fuel oil if purchasing electricity from another power producer is less costly. One factor that could slow the drop in residual fuel oil use in the future is the decommissioning of nuclear power plants over time. If additional gas and coal burning units come on line though, residual fuel oil demand will continue to drop at a quicker pace.

In the short-term, residual fuel oil use will go up occasionally, on an annual basis, when the Northeast has very cold winters. In 1996 for example, residual fuel oil use will probably be up over 1995 since the first quarter of 1996 was extremely cold. The summer has been mild though, so the key will be the upcoming winter.

Table 1. Sales of Distillate Fuel Oil by End Use in the United States: 1991-1995
(Thousand Gallons)

End Use	Distillate Fuel Oil				
	1991	1992	1993	1994	1995
U.S. Total	**45,210,737**	**47,261,552**	**48,290,076**	**50,423,596**	**51,469,264**
Residential	6,775,589	7,291,444	7,287,196	7,232,733	6,859,786
Commercial	3,767,833	3,771,021	3,689,509	3,774,929	3,630,856
Industrial	2,309,184	2,312,146	2,130,358	2,269,007	2,238,873
Oil Company	738,618	664,408	709,404	675,228	686,750
Farm	3,158,477	3,499,518	3,410,827	3,270,227	3,476,472
Electric Utility	594,821	540,683	550,752	663,814	597,461
Railroad	2,879,109	3,172,724	3,000,104	3,141,324	3,428,829
Vessel Bunkering	2,046,064	2,218,592	2,154,757	2,189,346	2,339,010
On-Highway Diesel	20,485,364	21,374,872	22,758,842	24,442,609	25,576,433
Military	811,705	652,507	491,320	610,474	461,740
Off-Highway Diesel	1,641,560	1,757,788	2,104,299	2,153,153	2,173,054
All Other	2,413	5,848	2,709	752	–

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 1991-1995.
• On-Highway Diesel data are Federal Highway Administation statistics of highway special fuels use.

Table 2. Sales of Residual Fuel Oil by End Use in the United States: 1991-1995
(Thousand Gallons)

End Use	Residual Fuel Oil				
	1991	1992	1993	1994	1995
U.S. Total	**17,631,823**	**16,199,042**	**15,064,305**	**14,825,378**	**12,318,128**
Commercial	1,423,948	1,176,049	1,025,895	1,061,450	922,572
Industrial	1,934,793	2,126,857	2,378,191	2,337,188	1,977,567
Oil Company	300,939	271,070	266,518	242,754	211,450
Electric Utility	7,071,254	5,961,441	6,035,413	5,729,485	3,262,492
Vessel Bunkering	6,773,174	6,563,220	5,281,869	5,386,407	5,886,409
Military	119,976	91,791	72,540	61,946	50,902
All Other	7,738	8,613	3,878	6,111	6,735

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 1991-1995.

Table 3. Sales of Kerosene by End Use in the United States: 1991-1995
(Thousand Gallons)

End Use	Kerosene				
	1991	1992	1993	1994	1995
U.S. Total	**709,716**	**636,426**	**760,788**	**750,330**	**828,450**
Residential	535,864	481,511	560,103	480,916	550,336
Commercial	89,542	82,398	103,996	144,142	163,716
Industrial	52,438	46,099	58,190	86,629	86,902
Farm	17,053	20,036	27,695	27,686	19,919
All Other	14,819	6,382	10,805	10,957	7,576

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, 1991-1995, (DOE/EIA-0340(91)/1 - (95)/1).

Table 4. Sales of Distillate Fuel Oil by End Use, 1994 and 1995

(Thousand Gallons)

Destination	Residential		Commercial		Industrial	
	1994	1995	1994	1995	1994	1995
U.S. Total	**7,232,733**	**6,859,786**	**3,774,929**	**3,630,856**	**2,269,007**	**2,238,873**
PAD District I Total	**5,979,205**	**5,675,138**	**2,568,196**	**2,421,064**	**733,386**	**759,001**
Subdistrict IA Total	**2,317,953**	**2,228,279**	**642,941**	**633,406**	**122,129**	**103,547**
Connecticut	613,506	553,290	120,552	133,258	27,109	21,671
Maine	275,510	336,839	111,938	100,905	34,414	27,799
Massachusetts	965,083	886,113	270,920	286,118	32,740	31,043
New Hampshire	186,245	196,452	62,453	49,849	10,037	9,313
Rhode Island	171,739	153,064	39,492	32,722	11,110	7,726
Vermont	105,871	102,521	37,586	30,554	6,719	5,994
Subdistrict IB Total	**3,183,440**	**2,971,469**	**1,500,060**	**1,312,577**	**287,958**	**238,616**
Delaware	57,602	49,155	12,636	12,433	8,085	6,990
District of Columbia	6,514	12,558	44,323	36,647	77	188
Maryland	243,401	217,407	149,545	136,795	32,054	26,964
New Jersey	602,566	531,291	243,322	153,122	56,680	52,217
New York	1,306,694	1,264,185	712,524	693,853	52,431	56,235
Pennsylvania	966,662	896,873	337,709	279,727	138,631	96,023
Subdistrict IC Total	**477,812**	**475,390**	**425,195**	**475,081**	**323,298**	**416,838**
Florida	12,160	10,061	106,951	130,013	45,424	64,619
Georgia	5,503	7,244	50,550	64,164	32,175	42,539
North Carolina	159,069	177,670	95,644	103,565	61,449	79,258
South Carolina	32,620	30,549	31,802	44,260	19,411	27,022
Virginia	239,937	227,959	120,308	117,323	44,072	74,907
West Virginia	28,523	21,908	19,939	15,757	120,767	128,494
PAD District II Total	**945,245**	**897,664**	**561,960**	**576,995**	**653,128**	**639,882**
Illinois	32,272	33,607	88,519	82,596	52,811	57,909
Indiana	73,051	65,186	61,393	48,748	91,305	65,886
Iowa	38,903	34,481	15,627	18,330	11,754	15,857
Kansas	1,085	631	19,930	24,837	8,499	9,564
Kentucky	32,634	31,914	39,505	49,179	168,375	190,269
Michigan	161,172	168,476	57,431	72,333	36,926	40,418
Minnesota	135,283	136,254	36,107	38,052	48,074	43,585
Missouri	14,123	19,273	47,739	52,563	21,228	26,248
Nebraska	6,437	3,888	14,475	7,138	4,040	3,941
North Dakota	29,293	31,656	7,687	6,534	4,878	10,442
Ohio	195,656	176,580	60,000	75,471	109,954	81,341
Oklahoma	5	480	10,509	11,923	13,048	5,773
South Dakota	21,432	22,137	10,619	13,290	15,430	8,224
Tennessee	12,085	11,489	40,230	32,617	31,421	31,782
Wisconsin	191,812	161,614	52,189	43,384	35,385	48,642
PAD District III Total	**1,603**	**1,037**	**213,323**	**195,721**	**313,874**	**289,688**
Alabama	501	461	41,229	28,439	91,402	62,143
Arkansas	37	90	16,766	13,296	10,663	15,079
Louisiana	483	62	33,330	11,366	63,454	17,883
Mississippi	42	22	16,644	14,039	25,400	24,803
New Mexico	305	127	8,155	10,691	10,391	25,375
Texas	235	275	97,197	117,890	112,564	144,405
PAD District IV Total	**34,039**	**35,858**	**94,961**	**81,436**	**161,936**	**137,194**
Colorado	944	1,540	45,119	31,030	22,181	17,342
Idaho	19,392	19,431	16,331	17,305	23,256	28,126
Montana	6,997	9,608	6,999	4,501	33,382	26,415
Utah	4,172	3,187	17,906	16,881	21,876	18,995
Wyoming	2,533	2,092	8,607	11,720	61,241	46,316
PAD District V Total	**272,641**	**250,088**	**336,489**	**355,640**	**406,682**	**413,108**
Alaska	85,194	89,404	80,400	45,694	21,233	49,480
Arizona	244	255	17,172	15,647	72,424	89,912
California	10,061	7,735	102,197	139,723	77,997	79,050
Hawaii	77	79	17,084	15,162	3,402	3,234
Nevada	10,244	7,772	35,838	36,723	140,084	133,688
Oregon	63,388	56,363	34,820	46,877	35,129	27,564
Washington	103,434	88,480	48,979	55,812	56,413	30,181

See footnotes at end of table.

Table 4. Sales of Distillate Fuel Oil by End Use, 1994 and 1995 (Continued)

(Thousand Gallons)

Destination	Oil Company		Farm		Electric Utility	
	1994	1995	1994	1995	1994	1995
U.S. Total	**675,228**	**686,750**	**3,270,227**	**3,476,472**	**663,814**	**597,461**
PAD District I Total	**12,496**	**10,363**	**357,546**	**397,145**	**352,870**	**257,997**
Subdistrict IA Total	**1,506**	**1,423**	**20,690**	**17,465**	**25,210**	**21,866**
Connecticut	418	389	4,714	5,469	2,671	2,858
Maine	86	87	6,092	3,810	764	1,051
Massachusetts	675	480	2,797	2,241	18,092	11,366
New Hampshire	–	–	1,633	985	1,140	1,204
Rhode Island	309	444	612	54	1,766	5,054
Vermont	18	22	4,842	4,906	777	333
Subdistrict IB Total	**5,403**	**3,623**	**120,722**	**104,672**	**187,996**	**112,865**
Delaware	311	305	4,551	3,209	5,919	3,118
District of Columbia	–	–	–	–	31,825	23,567
Maryland	738	616	20,223	26,787	32,890	27,029
New Jersey	2,266	931	9,639	7,108	17,797	3,895
New York	908	1,255	50,666	34,203	26,516	9,203
Pennsylvania	1,180	515	35,643	33,367	73,048	46,054
Subdistrict IC Total	**5,588**	**5,317**	**216,134**	**275,007**	**139,664**	**123,266**
Florida	1,163	1,155	58,993	68,083	57,387	53,446
Georgia	921	1,366	59,346	101,034	9,762	16,270
North Carolina	152	140	40,942	44,385	22,674	22,352
South Carolina	1	1	14,579	16,690	12,447	12,743
Virginia	1,429	1,983	37,382	40,687	21,957	7,231
West Virginia	1,923	672	4,893	4,129	15,436	11,225
PAD District II Total	**70,736**	**47,290**	**1,747,741**	**1,725,632**	**133,845**	**135,966**
Illinois	998	2,444	177,736	221,678	11,296	25,667
Indiana	2,739	2,211	78,349	110,926	7,421	16,839
Iowa	1	6	229,947	181,808	3,548	2,183
Kansas	5,255	5,012	177,137	166,519	4,467	2,647
Kentucky	651	585	46,184	39,165	14,943	9,035
Michigan	3,400	2,203	75,643	60,078	17,050	23,238
Minnesota	8	68	169,034	173,945	4,607	4,906
Missouri	4	55	61,667	60,615	6,873	6,293
Nebraska	78	774	221,032	186,677	1,879	1,594
North Dakota	4,560	6,208	114,473	108,785	3,462	3,945
Ohio	3,638	2,172	83,479	101,864	27,712	21,569
Oklahoma	49,320	25,412	58,441	73,958	466	885
South Dakota	40	29	86,546	80,066	1,762	278
Tennessee	35	108	55,279	65,524	21,409	9,825
Wisconsin	7	2	112,794	94,022	6,949	7,062
PAD District III Total	**505,312**	**547,164**	**532,147**	**742,083**	**38,971**	**45,745**
Alabama	13,155	9,429	33,681	50,169	10,483	8,180
Arkansas	3,512	1,349	78,629	123,348	9,235	9,954
Louisiana	309,490	329,392	65,492	70,393	4,220	8,578
Mississippi	10,905	2,458	77,162	105,755	2,514	1,539
New Mexico	10,947	23,829	16,432	17,064	487	1,192
Texas	157,303	180,706	260,751	375,353	12,032	16,302
PAD District IV Total	**29,478**	**24,161**	**169,808**	**188,770**	**6,252**	**5,122**
Colorado	13,187	9,075	55,636	55,982	1,305	661
Idaho	–	–	50,530	48,785	51	350
Montana	560	1,201	35,368	58,017	92	38
Utah	6,965	3,513	13,844	14,228	2,837	1,691
Wyoming	8,766	10,373	14,431	11,759	1,967	2,383
PAD District V Total	**57,205**	**57,772**	**462,986**	**422,842**	**131,876**	**152,631**
Alaska	40,686	46,571	53	158	36,355	35,713
Arizona	407	267	21,497	28,950	2,469	2,370
California	14,921	9,717	319,445	256,297	3,781	4,289
Hawaii	778	997	10,696	6,440	85,537	108,713
Nevada	145	74	7,308	4,397	2,215	501
Oregon	3	5	46,717	60,973	904	825
Washington	266	141	57,269	65,627	615	220

See footnotes at end of table.

Table 4. Sales of Distillate Fuel Oil by End Use, 1994 and 1995 (Continued)

(Thousand Gallons)

Destination	Railroad		Vessel Bunkering		On-Highway	
	1994	1995	1994	1995	1994	1995
U.S. Total	**3,141,324**	**3,428,829**	**2,189,346**	**2,339,010**	**24,442,609**	**25,576,433**
PAD District I Total	**574,446**	**561,677**	**516,082**	**541,806**	**7,833,800**	**8,099,324**
Subdistrict IA Total	**35,216**	**29,655**	**80,252**	**80,833**	**769,320**	**837,751**
Connecticut	6,368	6,788	3,250	3,358	176,778	199,252
Maine	10,172	6,792	24,657	19,632	127,602	129,755
Massachusetts	18,067	15,170	41,467	47,798	294,788	315,292
New Hampshire	230	305	490	332	55,727	63,113
Rhode Island	12	19	9,984	9,253	41,559	44,142
Vermont	366	581	404	461	72,866	86,197
Subdistrict IB Total	**219,635**	**195,481**	**144,794**	**159,573**	**2,987,381**	**3,007,852**
Delaware	637	463	2,068	1,353	61,356	62,912
District of Columbia	6,296	5,751	65	13	21,565	21,205
Maryland	31,954	28,245	14,507	20,852	306,348	323,559
New Jersey	96,355	78,277	91,777	108,512	554,233	488,531
New York	14,017	11,578	14,973	11,865	906,022	915,846
Pennsylvania	70,375	71,167	21,404	16,978	1,137,857	1,195,799
Subdistrict IC Total	**319,596**	**336,541**	**291,037**	**301,400**	**4,077,099**	**4,253,721**
Florida	96,428	94,200	150,400	167,123	878,915	1,003,655
Georgia	70,879	71,536	6,336	15,348	1,038,821	1,107,982
North Carolina	59,772	75,483	16,548	18,142	760,596	774,747
South Carolina	9,332	7,187	2,993	4,078	516,634	460,194
Virginia	66,213	73,546	44,790	31,318	676,118	688,044
West Virginia	16,972	14,591	69,970	65,391	206,015	219,099
PAD District II Total	**1,183,866**	**1,427,588**	**380,814**	**415,963**	**8,101,108**	**8,572,145**
Illinois	132,466	177,790	66,428	49,141	[E]740,451	[E]845,546
Indiana	171,125	141,093	13,301	15,369	933,435	976,069
Iowa	52,095	58,777	4,558	6,358	372,559	409,958
Kansas	103,883	215,698	–	–	294,362	343,175
Kentucky	103,466	113,285	119,591	146,352	582,087	581,148
Michigan	53,554	60,488	8,009	3,672	724,072	735,953
Minnesota	116,168	111,512	2,461	5,162	415,879	453,926
Missouri	15,279	20,728	58,812	86,383	725,701	737,909
Nebraska	100,192	108,815	–	–	281,594	312,127
North Dakota	42,169	44,827	–	–	124,796	131,234
Ohio	127,646	127,304	9,532	7,553	1,064,220	1,100,569
Oklahoma	84,693	97,374	192	512	476,271	496,860
South Dakota	4,780	4,662	–	–	133,800	135,905
Tennessee	28,241	92,764	95,003	92,313	674,143	728,024
Wisconsin	48,110	52,470	2,928	3,148	557,738	583,742
PAD District III Total	**671,931**	**666,829**	**818,739**	**950,382**	**4,046,337**	**4,089,230**
Alabama	56,715	52,669	73,879	62,981	649,271	691,273
Arkansas	65,831	62,499	2,421	3,107	467,619	488,499
Louisiana	28,117	22,647	452,286	564,367	437,193	481,346
Mississippi	42,396	28,351	37,868	25,381	352,785	374,214
New Mexico	15,139	18,263	–	–	222,791	107,055
Texas	463,734	482,400	252,285	294,546	1,916,678	1,946,843
PAD District IV Total	**304,602**	**341,923**	**62**	**55**	**975,232**	**1,117,000**
Colorado	92,484	104,913	–	–	258,390	276,585
Idaho	29,209	29,506	37	33	157,989	167,819
Montana	68,940	79,246	1	4	154,384	158,451
Utah	33,364	31,626	23	18	208,592	258,135
Wyoming	80,604	96,633	–	–	195,877	256,010
PAD District V Total	**406,480**	**430,811**	**473,649**	**430,804**	**3,486,132**	**3,698,734**
Alaska	4,378	4,438	135,200	147,529	53,142	109,740
Arizona	8,091	4,615	17	20	456,123	483,186
California	207,291	236,401	127,385	104,067	1,985,649	2,089,687
Hawaii	–	–	67,509	82,814	30,649	27,080
Nevada	13,145	15,847	–	–	172,148	[E]172,332
Oregon	111,300	92,627	41,019	22,019	[E]343,909	[E]353,384
Washington	62,275	76,883	102,518	74,355	444,512	463,325

See footnotes at end of table.

Table 4. Sales of Distillate Fuel Oil by End Use, 1994 and 1995 (Continued)

(Thousand Gallons)

Destination	Military		Off-Highway		All Other		Total	
	1994	1995	1994	1995	1994	1995	1994	1995
U.S. Total	**610,474**	**461,740**	**2,153,153**	**2,173,054**	**752**	**–**	**50,423,596**	**51,469,264**
PAD District I Total	**122,750**	**98,681**	**554,540**	**609,920**	**32**	**–**	**19,605,350**	**19,432,116**
Subdistrict IA Total	**35,173**	**19,724**	**66,384**	**70,646**	**10**	**–**	**4,116,785**	**4,044,594**
Connecticut	2,822	660	4,923	10,101	10	–	963,121	937,093
Maine	22,319	2,725	28,515	21,355	–	–	642,070	650,750
Massachusetts	4,763	9,524	18,547	22,667	–	–	1,667,941	1,627,812
New Hampshire	883	1,291	6,155	8,825	–	–	324,993	331,669
Rhode Island	4,231	5,253	2,888	4,148	–	–	283,704	261,880
Vermont	155	270	5,355	3,550	–	–	234,958	235,390
Subdistrict IB Total	**36,916**	**25,405**	**196,069**	**163,188**	**20**	**–**	**8,870,393**	**8,295,323**
Delaware	999	1,200	3,726	4,471	–	–	157,890	145,608
District of Columbia	3,276	1,050	535	503	–	–	114,475	101,482
Maryland	20,614	13,521	29,831	22,366	16	–	882,123	844,141
New Jersey	699	814	40,195	27,829	–	–	1,715,530	1,452,526
New York	8,987	2,112	45,726	43,930	–	–	3,139,465	3,044,266
Pennsylvania	2,341	6,709	76,056	64,088	4	–	2,860,910	2,707,300
Subdistrict IC Total	**50,661**	**53,551**	**292,087**	**376,086**	**2**	**–**	**6,618,172**	**7,092,200**
Florida	8,987	12,034	78,797	121,943	–	–	1,495,603	1,726,331
Georgia	10,619	10,834	77,121	75,427	–	–	1,362,032	1,513,743
North Carolina	5,896	8,512	49,649	81,136	–	–	1,272,391	1,385,389
South Carolina	931	1,250	31,413	40,370	–	–	672,163	644,343
Virginia	24,030	20,517	38,038	44,114	–	–	1,314,274	1,327,628
West Virginia	197	405	17,069	13,096	2	–	501,707	494,766
PAD District II Total	**26,668**	**16,026**	**616,229**	**599,047**	**188**	**–**	**14,421,528**	**15,054,198**
Illinois	356	424	74,607	64,471	162	–	1,378,101	1,561,274
Indiana	969	652	33,790	31,444	–	–	1,466,877	1,474,424
Iowa	160	199	25,301	51,230	–	–	754,453	779,188
Kansas	4,389	1,062	24,457	31,689	–	–	643,464	800,834
Kentucky	2,369	2,161	40,623	40,256	14	–	1,150,442	1,203,350
Michigan	1,036	352	73,038	49,973	8	–	1,211,340	1,217,182
Minnesota	191	259	39,258	48,768	–	–	967,069	1,016,437
Missouri	4,132	2,702	56,294	46,366	4	–	1,011,857	1,059,136
Nebraska	770	396	10,052	18,286	–	–	640,551	643,636
North Dakota	1,444	1,230	5,368	8,262	–	–	338,131	353,124
Ohio	850	858	87,827	73,489	–	–	1,770,515	1,768,769
Oklahoma	3,165	1,522	18,448	21,746	–	–	714,560	736,444
South Dakota	297	888	10,885	8,931	–	–	285,590	274,409
Tennessee	2,936	1,215	63,013	65,221	–	–	1,023,794	1,130,882
Wisconsin	3,606	2,108	53,267	38,914	–	–	1,064,785	1,035,109
PAD District III Total	**215,760**	**191,386**	**439,672**	**432,062**	**531**	**–**	**7,798,201**	**8,151,328**
Alabama	4,605	6,623	58,741	72,449	4	–	1,033,665	1,044,816
Arkansas	3,267	984	45,529	38,706	172	–	703,682	756,912
Louisiana	52,499	31,333	82,448	83,508	–	–	1,529,012	1,620,875
Mississippi	14,586	5,964	45,187	38,375	344	–	625,833	620,903
New Mexico	2,781	1,479	9,784	17,958	–	–	297,210	223,032
Texas	138,023	145,004	197,985	181,065	11	–	3,608,799	3,884,790
PAD District IV Total	**13,063**	**1,989**	**100,316**	**116,996**	**–**	**–**	**1,889,750**	**2,050,503**
Colorado	7,531	1,365	24,669	39,006	–	–	521,445	537,499
Idaho	1,509	76	19,518	23,105	–	–	317,822	334,535
Montana	543	331	14,858	15,198	–	–	322,123	353,010
Utah	3,236	201	23,445	24,326	–	–	336,262	372,800
Wyoming	244	14	17,826	15,360	–	–	392,098	452,660
PAD District V Total	**232,233**	**153,659**	**442,394**	**415,029**	**–**	**–**	**6,708,767**	**6,781,119**
Alaska	12,741	5,619	40,340	40,669	–	–	509,722	575,014
Arizona	2,095	996	26,874	39,407	–	–	607,413	665,626
California	126,577	128,743	200,812	170,093	–	–	3,176,116	3,225,802
Hawaii	43,296	8,583	8,823	13,545	–	–	267,850	266,648
Nevada	1,506	1,155	24,397	14,288	–	–	407,030	386,778
Oregon	1,201	1,210	60,178	68,502	–	–	738,568	730,347
Washington	44,816	7,354	80,970	68,525	–	–	1,002,068	930,904

[E] Estimated data. Illinois' and Nevada's annual estimates are based on eleven months of data. Since 1994 data for Oregon were not available, estimate is based on 1993 data. Oregon's 1995 data represent a Federal Highway Administration estimate.

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 and 1995.

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

Table 5. Sales of Residual Fuel Oil by End Use, 1994 and 1995

(Thousand Gallons)

Destination	Commercial		Industrial		Oil Company		Electric Utility	
	1994	1995	1994	1995	1994	1995	1994	1995
U.S. Total	**1,061,450**	**922,572**	**2,337,188**	**1,977,567**	**242,754**	**211,450**	**5,729,485**	**3,262,492**
PAD District I Total	**1,016,242**	**896,305**	**1,692,202**	**1,440,632**	**102,336**	**101,087**	**5,145,733**	**2,757,058**
Subdistrict IA Total	**214,061**	**200,493**	**581,972**	**457,776**	**333**	**207**	**1,001,545**	**636,040**
Connecticut	25,070	18,333	49,599	30,061	333	207	247,485	91,312
Maine	29,515	15,139	351,797	302,153	–	–	40,009	57,674
Massachusetts	114,626	125,824	104,389	59,636	–	–	618,741	391,725
New Hampshire	17,306	17,864	50,572	44,753	–	–	88,465	93,992
Rhode Island	24,216	20,441	18,019	15,260	–	–	6,846	1,338
Vermont	3,328	2,892	7,596	5,912	–	–	–	–
Subdistrict IB Total	**777,750**	**672,123**	**392,483**	**271,859**	**101,186**	**100,249**	**1,850,373**	**963,580**
Delaware	6,159	5,388	36,378	28,800	32,934	35,541	145,196	76,774
District of Columbia	6,503	5,333	29	6	–	–	–	–
Maryland	8,309	4,881	47,169	29,235	698	630	310,075	84,940
New Jersey	80,631	50,735	93,853	75,461	2,753	2,463	205,646	83,618
New York	623,200	555,716	120,288	80,419	2,253	1,147	893,326	584,682
Pennsylvania	52,949	50,071	94,766	57,938	62,548	60,468	296,130	133,566
Subdistrict IC Total	**24,431**	**23,689**	**717,746**	**710,998**	**816**	**631**	**2,293,814**	**1,157,438**
Florida	5,193	5,649	174,902	201,259	71	60	2,166,958	1,126,980
Georgia	261	471	109,234	106,539	–	–	1,822	1,637
North Carolina	10,230	7,592	226,078	236,862	–	–	–	–
South Carolina	2,538	1,566	93,635	86,324	154	168	–	–
Virginia	6,018	8,412	94,939	71,957	591	402	125,035	28,821
West Virginia	192	–	18,959	8,057	–	–	–	–
PAD District II Total	**20,801**	**14,540**	**342,192**	**202,623**	**81,516**	**64,084**	**147,864**	**86,734**
Illinois	2,557	1,841	12,696	4,605	10,549	10,255	86,838	41,773
Indiana	1,555	1,301	67,203	34,947	39,019	29,284	–	3,574
Iowa	43	–	6,920	3,769	–	–	–	–
Kansas	93	483	5,259	752	1,441	–	58	–
Kentucky	70	–	7,533	3,540	4,992	4,709	–	–
Michigan	130	197	33,181	15,472	3,936	956	51,822	33,394
Minnesota	6,153	4,570	27,032	13,334	8,844	8,623	–	–
Missouri	756	42	17,779	13,085	–	–	8,772	6,818
Nebraska	725	25	7,423	4,925	–	–	–	–
North Dakota	566	775	6,714	2,593	5,820	3,349	167	–
Ohio	289	186	71,060	52,703	3,434	3,114	207	1,175
Oklahoma	–	11	21,046	13,490	–	–	–	–
South Dakota	235	100	3,157	460	–	–	–	–
Tennessee	1,247	582	16,282	14,001	–	178	–	–
Wisconsin	6,383	4,429	38,909	24,947	3,481	3,617	–	–
PAD District III Total	**60**	**108**	**165,833**	**155,920**	**684**	**192**	**80,540**	**463**
Alabama	30	108	41,265	20,653	–	–	–	–
Arkansas	–	–	10,285	8,362	–	–	1,792	–
Louisiana	–	–	8,851	15,659	–	–	4,523	435
Mississippi	–	–	6,612	3,303	–	–	70,674	27
New Mexico	–	–	6,825	7,323	–	–	–	–
Texas	30	–	91,995	100,619	684	192	3,550	–
PAD District IV Total	**1,181**	**848**	**9,592**	**10,055**	**19,070**	**11,779**	**607**	**311**
Colorado	–	–	43	7	3	–	–	–
Idaho	264	178	529	93	–	–	607	245
Montana	131	135	125	841	14,058	8,707	–	–
Utah	755	523	7,470	8,434	5,009	3,073	–	–
Wyoming	30	12	1,425	680	–	–	–	66
PAD District V Total	**23,166**	**10,770**	**127,369**	**168,338**	**39,148**	**34,309**	**354,742**	**417,927**
Alaska	–	–	13,213	15,377	–	–	–	–
Arizona	–	–	1,728	2,782	–	42	–	–
California	298	164	51,250	59,985	431	36	16,267	–
Hawaii	16,787	2,554	10,944	7,354	32,835	32,992	332,689	417,822
Nevada	–	–	5,389	44,324	–	40	5,670	–
Oregon	4,242	3,554	16,038	13,303	–	–	116	105
Washington	1,840	4,499	28,807	25,213	5,883	1,199	–	–

See footnotes at end of table.

Table 5. Sales of Residual Fuel Oil by End Use, 1994 and 1995 (Continued)

(Thousand Gallons)

Destination	Vessel Bunkering		Military		All Other		Total	
	1994	1995	1994	1995	1994	1995	1994	1995
U.S. Total	**5,386,407**	**5,886,409**	**61,946**	**50,902**	**6,111**	**6,735**	**14,825,378**	**12,318,128**
PAD District I Total	**1,200,361**	**1,189,352**	**53,815**	**39,976**	**3,547**	**4,578**	**9,214,272**	**6,428,987**
Subdistrict IA Total	**17,993**	**9,750**	**6,753**	**7,316**	**270**	**1,139**	**1,822,929**	**1,312,720**
Connecticut	–	–	867	470	265	679	323,619	141,062
Maine	4,567	3,768	4,451	4,589	5	328	430,344	383,650
Massachusetts	12,683	5,941	1,436	2,226	–	132	851,874	585,484
New Hampshire	370	–	–	–	–	–	156,712	156,609
Rhode Island	373	41	–	31	–	–	49,455	37,110
Vermont	–	–	–	–	–	–	10,924	8,804
Subdistrict IB Total	**647,970**	**681,807**	**32,338**	**19,128**	**464**	**6**	**3,802,602**	**2,708,752**
Delaware	47,463	40,462	978	1,769	–	6	269,108	188,740
District of Columbia	–	–	–	–	–	–	6,532	5,339
Maryland	23,145	28,594	14,645	9,579	–	–	404,040	157,859
New Jersey	236,515	327,291	7,260	2,692	–	–	626,658	542,260
New York	114,179	91,781	6,987	3,245	91	–	1,760,325	1,316,990
Pennsylvania	226,669	193,679	2,467	1,842	373	–	735,939	497,564
Subdistrict IC Total	**534,397**	**497,795**	**14,723**	**13,532**	**2,813**	**3,434**	**3,588,741**	**2,407,516**
Florida	388,529	343,562	2,347	2,259	2,673	2,854	2,740,673	1,682,623
Georgia	71,612	56,717	–	–	6	–	182,935	165,365
North Carolina	1,279	5,960	6,861	6,297	40	63	244,488	256,772
South Carolina	1,566	16,264	1,336	1,447	94	36	99,322	105,805
Virginia	71,411	75,292	4,179	3,529	–	481	302,173	188,893
West Virginia	–	–	–	–	–	–	19,151	8,057
PAD District II Total	**17,694**	**18,768**	**566**	**310**	**130**	**169**	**610,763**	**387,227**
Illinois	1,939	1,143	–	310	–	35	114,578	59,961
Indiana	8,651	9,626	–	–	–	–	116,427	78,731
Iowa	–	–	–	–	–	8	6,962	3,777
Kansas	–	–	–	–	6	–	6,858	1,234
Kentucky	–	–	–	–	–	–	12,596	8,249
Michigan	3,763	3,853	–	–	52	40	92,884	53,911
Minnesota	88	–	–	–	–	–	42,116	26,526
Missouri	272	865	566	–	1	–	28,146	20,809
Nebraska	–	–	–	–	62	3	8,209	4,953
North Dakota	–	–	–	–	–	–	13,267	6,716
Ohio	2,445	2,306	–	–	–	–	77,435	59,485
Oklahoma	–	–	–	–	–	–	21,046	13,502
South Dakota	–	–	–	–	–	–	3,392	560
Tennessee	97	77	–	–	9	–	17,635	14,838
Wisconsin	439	898	–	–	–	84	49,212	33,975
PAD District III Total	**1,873,148**	**1,958,248**	**4,161**	**1,792**	**6**	**–**	**2,124,432**	**2,116,724**
Alabama	89,864	106,730	52	–	5	–	131,217	127,491
Arkansas	–	–	–	–	1	–	12,078	8,362
Louisiana	916,053	927,338	980	1,792	–	–	930,407	945,225
Mississippi	137,173	103,276	–	–	–	–	214,459	106,606
New Mexico	–	–	–	–	–	–	6,825	7,323
Texas	730,058	820,905	3,129	–	–	–	829,447	921,716
PAD District IV Total	**49**	**–**	**–**	**–**	**209**	**209**	**30,707**	**23,202**
Colorado	49	–	–	–	3	3	98	10
Idaho	–	–	–	–	8	29	1,408	544
Montana	–	–	–	–	–	–	14,314	9,682
Utah	–	–	–	–	97	40	13,331	12,070
Wyoming	–	–	–	–	101	137	1,556	895
PAD District V Total	**2,295,156**	**2,720,041**	**3,405**	**8,824**	**2,218**	**1,779**	**2,845,204**	**3,361,987**
Alaska	3,887	4,674	–	–	–	–	17,099	20,051
Arizona	–	–	–	–	–	–	1,728	2,824
California	1,463,744	1,797,809	879	7,807	27	104	1,532,895	1,865,905
Hawaii	113,777	109,640	160	120	2,191	1,653	509,384	572,135
Nevada	–	–	–	–	–	–	11,058	44,364
Oregon	149,917	129,370	–	897	–	22	170,313	147,250
Washington	563,831	678,548	2,366	–	–	–	602,727	709,459

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 and 1995.

Table 6. Sales of Kerosene by End Use, 1994 and 1995

(Thousand Gallons)

Destination	Residential		Commercial		Industrial	
	1994	1995	1994	1995	1994	1995
U.S. Total	**480,916**	**550,336**	**144,142**	**163,716**	**86,629**	**86,902**
PAD District I Total	**367,746**	**440,639**	**118,101**	**132,354**	**65,489**	**59,357**
Subdistrict IA Total	**68,971**	**78,901**	**15,420**	**16,254**	**5,495**	**7,148**
Connecticut	6,811	5,127	2,153	1,144	1,782	3,904
Maine	31,846	45,725	6,370	6,783	2,485	933
Massachusetts	9,174	5,463	4,194	4,615	482	1,365
New Hampshire	11,859	13,901	1,703	1,834	424	603
Rhode Island	1,605	1,123	202	1,278	309	284
Vermont	7,676	7,563	799	600	13	60
Subdistrict IB Total	**154,114**	**176,460**	**72,001**	**90,240**	**50,795**	**40,764**
Delaware	4,028	5,037	317	99	6,169	10
District of Columbia	187	265	251	5,402	–	–
Maryland	16,493	22,450	8,931	8,807	1,336	1,520
New Jersey	12,226	9,926	25,849	23,761	24,615	17,257
New York	58,612	52,099	22,607	30,006	12,603	16,640
Pennsylvania	62,567	86,682	14,047	22,166	6,071	5,337
Subdistrict IC Total	**144,660**	**185,278**	**30,680**	**25,859**	**9,199**	**11,444**
Florida	5,232	8,846	3,212	4,002	132	210
Georgia	3,365	5,278	6,251	1,477	555	1,053
North Carolina	54,933	88,104	14,288	6,178	2,604	3,429
South Carolina	15,604	19,751	1,100	1,094	2,786	2,849
Virginia	52,773	51,244	4,231	11,566	944	1,838
West Virginia	12,753	12,055	1,598	1,542	2,178	2,065
PAD District II Total	**99,015**	**93,893**	**21,118**	**25,255**	**13,517**	**15,373**
Illinois	3,030	3,521	2,105	3,375	2,001	3,991
Indiana	11,554	9,016	2,814	2,947	857	1,221
Iowa	791	1,032	537	106	302	205
Kansas	320	533	161	236	67	90
Kentucky	16,396	17,428	3,048	4,925	2,699	2,813
Michigan	13,526	9,772	1,374	4,285	1,464	894
Minnesota	1,893	2,097	587	979	141	106
Missouri	1,006	1,357	604	432	255	111
Nebraska	220	157	223	168	21	27
North Dakota	240	154	33	54	8	2
Ohio	29,785	31,432	6,064	3,727	4,544	4,355
Oklahoma	214	156	164	216	64	104
South Dakota	159	156	13	30	3	3
Tennessee	18,456	15,644	3,051	3,362	778	1,110
Wisconsin	1,425	1,439	341	412	312	341
PAD District III Total	**3,531**	**5,758**	**2,629**	**3,241**	**5,438**	**8,889**
Alabama	1,220	2,789	449	402	1,274	1,739
Arkansas	271	584	179	190	63	422
Louisiana	214	380	530	250	880	796
Mississippi	847	847	109	312	808	724
New Mexico	144	235	125	147	128	220
Texas	835	923	1,238	1,940	2,284	4,987
PAD District IV Total	**2,253**	**1,632**	**372**	**441**	**1,017**	**1,022**
Colorado	1,664	836	190	190	36	55
Idaho	93	627	79	128	7	4
Montana	237	21	35	11	4	3
Utah	227	121	65	45	43	50
Wyoming	33	27	3	66	927	909
PAD District V Total	**8,371**	**8,415**	**1,922**	**2,426**	**1,169**	**2,263**
Alaska	426	13	7	20	13	5
Arizona	75	85	35	49	10	18
California	2,827	3,397	524	1,122	807	1,782
Hawaii	1	1	5	5	19	14
Nevada	186	240	105	53	32	53
Oregon	2,099	1,072	588	594	141	103
Washington	2,755	3,607	658	582	147	287

See footnotes at end of table.

Table 6. Sales of Kerosene by End Use, 1994 and 1995 (Continued)

(Thousand Gallons)

Destination	Farm		All Other		Total	
	1994	1995	1994	1995	1994	1995
U.S. Total	**27,686**	**19,919**	**10,957**	**7,576**	**750,330**	**828,450**
PAD District I Total	**10,070**	**7,629**	**6,055**	**3,476**	**567,460**	**643,455**
Subdistrict IA Total	**1,027**	**685**	**591**	**413**	**91,504**	**103,401**
Connecticut	35	20	129	58	10,910	10,254
Maine	471	220	87	146	41,258	53,806
Massachusetts	24	65	229	51	14,102	11,559
New Hampshire	91	105	78	86	14,154	16,529
Rhode Island	–	–	1	–	2,118	2,685
Vermont	405	274	68	72	8,962	8,569
Subdistrict IB Total	**3,995**	**1,707**	**4,885**	**1,800**	**285,790**	**310,972**
Delaware	21	44	73	151	10,609	5,341
District of Columbia	–	–	–	–	438	5,667
Maryland	467	728	982	157	28,210	33,662
New Jersey	23	7	436	126	63,149	51,077
New York	1,170	287	1,127	255	96,119	99,287
Pennsylvania	2,313	641	2,267	1,111	87,265	115,938
Subdistrict IC Total	**5,048**	**5,238**	**579**	**1,262**	**190,167**	**229,082**
Florida	39	80	153	18	8,767	13,156
Georgia	29	172	5	227	10,206	8,206
North Carolina	902	781	13	619	72,741	99,111
South Carolina	362	217	37	182	19,890	24,094
Virginia	3,101	3,246	213	56	61,261	67,951
West Virginia	614	743	158	160	17,302	16,564
PAD District II Total	**14,992**	**10,186**	**2,429**	**2,603**	**151,071**	**147,310**
Illinois	610	881	679	547	8,425	12,315
Indiana	2,321	498	480	182	18,026	13,865
Iowa	862	1,499	11	37	2,503	2,879
Kansas	135	222	50	115	733	1,197
Kentucky	1,185	1,305	286	724	23,615	27,194
Michigan	914	233	151	205	17,428	15,389
Minnesota	2,943	1,167	64	14	5,628	4,362
Missouri	61	237	108	95	2,034	2,231
Nebraska	374	249	32	101	871	702
North Dakota	13	8	7	6	302	224
Ohio	4,125	3,161	110	350	44,627	43,025
Oklahoma	906	82	12	65	1,359	623
South Dakota	31	67	2	3	208	259
Tennessee	224	374	354	74	22,863	20,564
Wisconsin	287	204	83	84	2,448	2,480
PAD District III Total	**1,579**	**425**	**1,898**	**837**	**15,075**	**19,149**
Alabama	13	9	53	135	3,010	5,075
Arkansas	11	84	647	349	1,171	1,629
Louisiana	31	17	399	111	2,054	1,554
Mississippi	23	24	374	67	2,161	1,974
New Mexico	6	24	64	52	466	678
Texas	1,495	267	361	122	6,213	8,240
PAD District IV Total	**117**	**175**	**108**	**101**	**3,867**	**3,369**
Colorado	78	84	37	58	2,005	1,223
Idaho	4	35	51	34	234	828
Montana	13	4	–	–	289	40
Utah	18	52	14	2	367	270
Wyoming	3	–	6	6	972	1,008
PAD District V Total	**929**	**1,504**	**466**	**560**	**12,857**	**15,167**
Alaska	–	–	2	–	448	37
Arizona	4	4	2	2	127	159
California	610	308	278	267	5,048	6,877
Hawaii	1	1	–	–	27	22
Nevada	3	12	1	11	328	370
Oregon	155	605	144	248	3,127	2,623
Washington	155	574	38	31	3,752	5,081

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 and 1995.

Table 7. Sales for Residential Use: Distillate Fuel Oil and Kerosene, 1995
(Thousand Gallons)

Destination	Distillate Fuel Oil			Kerosene
	No. 1	No. 2	Total	
U.S. Total	**188,763**	**6,671,024**	**6,859,787**	**550,336**
PAD District I Total	**28,303**	**5,646,835**	**5,675,138**	**440,639**
Subdistrict IA Total	**16,837**	**2,211,442**	**2,228,279**	**78,901**
Connecticut	2,656	550,634	553,290	5,127
Maine	3,013	333,827	336,840	45,725
Massachusetts	6,108	880,005	886,113	5,463
New Hampshire	859	195,593	196,452	13,901
Rhode Island	–	153,064	153,064	1,123
Vermont	4,201	98,320	102,521	7,563
Subdistrict IB Total	**5,938**	**2,965,531**	**2,971,469**	**176,460**
Delaware	–	49,155	49,155	5,037
District of Columbia	–	12,558	12,558	265
Maryland	754	216,652	217,406	22,450
New Jersey	70	531,222	531,292	9,926
New York	–	1,264,185	1,264,185	52,099
Pennsylvania	5,114	891,759	896,873	86,682
Subdistrict IC Total	**5,528**	**469,862**	**475,390**	**185,278**
Florida	309	9,751	10,060	8,846
Georgia	706	6,538	7,244	5,278
North Carolina	1,536	176,134	177,670	88,104
South Carolina	1,415	29,133	30,548	19,751
Virginia	751	227,208	227,959	51,244
West Virginia	810	21,098	21,908	12,055
PAD District II Total	**102,478**	**795,187**	**897,665**	**93,893**
Illinois	4,548	29,058	33,606	3,521
Indiana	11,200	53,986	65,186	9,016
Iowa	5,205	29,276	34,481	1,032
Kansas	263	367	630	533
Kentucky	1,164	30,750	31,914	17,428
Michigan	16,159	152,316	168,475	9,772
Minnesota	26,097	110,156	136,253	2,097
Missouri	1,965	17,307	19,272	1,357
Nebraska	1,568	2,320	3,888	157
North Dakota	6,284	25,372	31,656	154
Ohio	8,523	168,057	176,580	31,432
Oklahoma	480	–	480	156
South Dakota	5,634	16,503	22,137	156
Tennessee	964	10,525	11,489	15,644
Wisconsin	12,422	149,192	161,614	1,439
PAD District III Total	**130**	**908**	**1,038**	**5,758**
Alabama	44	418	462	2,789
Arkansas	–	90	90	584
Louisiana	60	2	62	380
Mississippi	3	19	22	847
New Mexico	13	114	127	235
Texas	10	265	275	923
PAD District IV Total	**9,627**	**26,231**	**35,858**	**1,632**
Colorado	155	1,385	1,540	836
Idaho	3,742	15,689	19,431	627
Montana	5,227	4,381	9,608	21
Utah	144	3,043	3,187	121
Wyoming	359	1,733	2,092	27
PAD District V Total	**48,225**	**201,863**	**250,088**	**8,415**
Alaska	37,859	51,545	89,404	13
Arizona	23	232	255	85
California	722	7,013	7,735	3,397
Hawaii	69	10	79	1
Nevada	549	7,223	7,772	240
Oregon	4,387	51,976	56,363	1,072
Washington	4,616	83,864	88,480	3,607

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 1995.
• Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1995, (DOE/EIA-0340(95)/1).

Table 8. Sales for Commercial Use: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 1995
(Thousand Gallons)

Destination	Distillate Fuel Oil							Residual Fuel Oil	Kerosene
	No. 1 Distillate	No. 2 Distillate				No. 4 Fuel	Total Distillate		
		No. 2 Fuel Oil	Low Sulfur Diesel	High Sulfur Diesel	No. 2 Total				
U.S. Total	**121,753**	**1,484,198**	**1,190,986**	**451,279**	**3,126,463**	**382,640**	**3,630,856**	**922,572**	**163,716**
PAD District I Total	**6,619**	**1,328,220**	**501,347**	**205,260**	**2,034,827**	**379,618**	**2,421,064**	**896,305**	**132,354**
Subdistrict IA Total	**1,650**	**446,980**	**77,798**	**25,568**	**550,345**	**81,411**	**633,406**	**200,493**	**16,254**
Connecticut	158	103,293	18,607	2,203	124,103	8,997	133,258	18,333	1,144
Maine	436	82,172	12,071	3,558	97,801	2,668	100,905	15,139	6,783
Massachusetts	5	177,374	33,866	14,544	225,784	60,329	286,118	125,824	4,615
New Hampshire	304	41,154	3,318	918	45,390	4,156	49,849	17,864	1,834
Rhode Island	747	24,049	3,055	860	27,964	4,012	32,722	20,441	1,278
Vermont	–	18,939	6,881	3,483	29,304	1,250	30,554	2,892	600
Subdistrict IB Total	**2,629**	**758,750**	**198,896**	**58,062**	**1,015,708**	**294,240**	**1,312,577**	**672,123**	**90,240**
Delaware	43	7,719	2,280	1,371	11,370	1,019	12,433	5,388	99
District of Columbia	–	22,744	4,910	658	28,312	8,334	36,647	5,333	5,402
Maryland	658	72,078	36,245	24,987	133,311	2,827	136,795	4,881	8,807
New Jersey	86	92,893	25,551	4,918	123,361	29,674	153,122	50,735	23,761
New York	848	395,242	46,030	6,023	447,295	245,710	693,853	555,716	30,006
Pennsylvania	994	168,074	83,879	20,105	272,058	6,675	279,727	50,071	22,166
Subdistrict IC Total	**2,340**	**122,490**	**224,653**	**121,631**	**468,774**	**3,967**	**475,081**	**23,689**	**25,859**
Florida	1,924	6,719	96,374	24,815	127,908	181	130,013	5,649	4,002
Georgia	109	8,075	34,970	21,009	64,055	–	64,164	471	1,477
North Carolina	8	38,609	24,991	37,236	100,835	2,722	103,565	7,592	6,178
South Carolina	136	5,916	28,297	9,880	44,093	31	44,260	1,566	1,094
Virginia	3	59,820	33,374	23,184	116,378	942	117,323	8,412	11,566
West Virginia	161	3,351	6,648	5,506	15,505	91	15,757	–	1,542
PAD District II Total	**70,220**	**115,748**	**269,264**	**121,280**	**506,292**	**484**	**576,995**	**14,540**	**25,255**
Illinois	33,199	13,171	26,255	9,886	49,311	86	82,596	1,841	3,375
Indiana	4,062	14,085	21,328	9,123	44,536	150	48,748	1,301	2,947
Iowa	1,563	3,636	11,352	1,779	16,767	–	18,330	–	106
Kansas	3,342	241	14,629	6,625	21,495	–	24,837	483	236
Kentucky	346	3,274	29,046	16,391	48,711	122	49,179	–	4,925
Michigan	10,962	18,620	29,922	12,829	61,371	–	72,333	197	4,285
Minnesota	5,666	12,547	14,748	5,085	32,380	6	38,052	4,570	979
Missouri	2,249	4,213	21,626	24,437	50,276	38	52,563	42	432
Nebraska	1,156	308	4,893	781	5,982	–	7,138	25	168
North Dakota	936	2,325	1,986	1,287	5,599	–	6,534	775	54
Ohio	772	10,227	51,891	12,570	74,688	12	75,471	186	3,727
Oklahoma	693	508	8,353	2,368	11,229	–	11,923	11	216
South Dakota	1,599	7,384	2,259	2,048	11,691	–	13,290	100	30
Tennessee	31	3,521	19,682	9,377	32,580	6	32,617	582	3,362
Wisconsin	3,643	21,689	11,294	6,694	39,677	63	43,384	4,429	412
PAD District III Total	**7,938**	**2,831**	**137,703**	**46,478**	**187,011**	**772**	**195,721**	**108**	**3,241**
Alabama	106	1,473	19,502	7,357	28,332	–	28,439	108	402
Arkansas	–	7	8,494	4,796	13,296	–	13,296	–	190
Louisiana	191	–	7,635	3,540	11,175	–	11,366	–	250
Mississippi	1	34	11,211	2,735	13,980	58	14,039	–	312
New Mexico	193	46	5,169	5,283	10,498	–	10,691	–	147
Texas	7,447	1,271	85,692	22,767	109,729	714	117,890	–	1,940
PAD District IV Total	**7,073**	**4,075**	**58,900**	**10,815**	**73,791**	**572**	**81,436**	**848**	**441**
Colorado	3,459	514	25,838	1,219	27,570	–	31,030	–	190
Idaho	886	1,412	9,781	5,224	16,418	1	17,305	178	128
Montana	1,067	1,152	2,281	–	3,433	–	4,501	135	11
Utah	694	997	10,553	4,065	15,615	571	16,881	523	45
Wyoming	966	–	10,447	307	10,754	–	11,720	12	66
PAD District V Total	**29,903**	**33,324**	**223,772**	**67,446**	**324,542**	**1,194**	**355,640**	**10,770**	**2,426**
Alaska	19,058	12,664	132	13,067	25,863	773	45,694	–	20
Arizona	144	20	13,686	1,713	15,419	84	15,647	–	49
California	808	2,608	122,261	14,046	138,915	–	139,723	164	1,122
Hawaii	8	1,119	9,362	4,674	15,154	–	15,162	2,554	5
Nevada	1,090	1,296	27,355	6,983	35,633	–	36,723	–	53
Oregon	4,639	4,481	24,490	13,181	42,153	85	46,877	3,554	594
Washington	4,155	11,136	26,487	13,782	51,405	252	55,812	4,499	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 1995.
• Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1995, (DOE/EIA-0340(95)/1).

Table 9. Sales for Industrial Use: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 1995
(Thousand Gallons)

Destination	Distillate Fuel Oil							Residual Fuel Oil	Kerosene
	No. 1 Distillate	No. 2 Distillate				No. 4 Fuel	Total Distillate		
		No. 2 Fuel Oil	Low Sulfur Diesel	High Sulfur Diesel	No. 2 Total				
U.S. Total	**53,603**	**452,442**	**600,706**	**1,077,795**	**2,130,944**	**54,327**	**2,238,873**	**1,977,567**	**86,902**
PAD District I Total	**4,105**	**282,987**	**104,240**	**320,623**	**707,850**	**47,045**	**759,001**	**1,440,632**	**59,357**
Subdistrict IA Total	**71**	**72,149**	**8,271**	**5,031**	**85,451**	**18,025**	**103,547**	**457,776**	**7,148**
Connecticut	2	11,394	2,211	265	13,870	7,799	21,671	30,061	3,904
Maine	59	26,155	792	452	27,400	340	27,799	302,153	933
Massachusetts	10	21,116	3,239	2,785	27,140	3,894	31,043	59,636	1,365
New Hampshire	–	5,080	1,211	1,087	7,378	1,935	9,313	44,753	603
Rhode Island	–	4,397	271	1	4,670	3,056	7,726	15,260	284
Vermont	–	4,006	546	441	4,993	1,001	5,994	5,912	60
Subdistrict IB Total	**772**	**118,508**	**42,015**	**56,614**	**217,137**	**20,707**	**238,616**	**271,859**	**40,764**
Delaware	–	2,959	2,608	1,312	6,880	110	6,990	28,800	10
District of Columbia	–	49	139	–	188	–	188	6	–
Maryland	494	12,065	6,126	7,209	25,399	1,071	26,964	29,235	1,520
New Jersey	–	29,195	2,699	11,476	43,370	8,847	52,217	75,461	17,257
New York	–	37,478	4,420	7,765	49,663	6,572	56,235	80,419	16,640
Pennsylvania	278	36,763	26,022	28,853	91,638	4,107	96,023	57,938	5,337
Subdistrict IC Total	**3,262**	**92,330**	**53,954**	**258,978**	**405,262**	**8,313**	**416,838**	**710,998**	**11,444**
Florida	–	8,711	13,642	38,491	60,843	3,775	64,619	201,259	210
Georgia	–	6,529	7,116	28,810	42,456	83	42,539	106,539	1,053
North Carolina	–	33,195	12,345	30,868	76,408	2,850	79,258	236,862	3,429
South Carolina	9	13,677	3,143	9,836	26,657	356	27,022	86,324	2,849
Virginia	53	14,851	9,938	49,166	73,955	898	74,907	71,957	1,838
West Virginia	3,200	15,367	7,769	101,807	124,943	351	128,494	8,057	2,065
PAD District II Total	**25,450**	**143,615**	**123,968**	**341,361**	**608,944**	**5,488**	**639,882**	**202,623**	**15,373**
Illinois	1,893	16,943	8,213	30,855	56,011	6	57,909	4,605	3,991
Indiana	1,256	24,597	17,936	22,042	64,576	54	65,886	34,947	1,221
Iowa	1,549	1,028	9,810	3,471	14,309	–	15,857	3,769	205
Kansas	689	776	3,992	4,107	8,875	–	9,564	752	90
Kentucky	1,021	10,532	20,620	157,287	188,439	809	190,269	3,540	2,813
Michigan	769	12,032	12,234	14,504	38,769	880	40,418	15,472	894
Minnesota	9,993	19,469	6,986	6,831	33,286	306	43,585	13,334	106
Missouri	1,586	4,503	8,470	11,366	24,338	323	26,248	13,085	111
Nebraska	372	162	276	3,132	3,569	–	3,941	4,925	27
North Dakota	929	8,034	737	743	9,514	–	10,442	2,593	2
Ohio	219	13,451	13,096	53,797	80,344	778	81,341	52,703	4,355
Oklahoma	8	1,367	2,513	1,884	5,765	–	5,773	13,490	104
South Dakota	833	644	5,925	784	7,354	37	8,224	460	3
Tennessee	–	6,656	5,792	17,120	29,569	2,213	31,782	14,001	1,110
Wisconsin	4,333	23,421	7,368	13,439	44,228	81	48,642	24,947	341
PAD District III Total	**4,133**	**15,208**	**88,195**	**181,953**	**285,356**	**199**	**289,688**	**155,920**	**8,889**
Alabama	–	5,859	9,446	46,837	62,143	–	62,143	20,653	1,739
Arkansas	–	–	5,317	9,755	15,072	7	15,079	8,362	422
Louisiana	–	3	2,499	15,374	17,876	8	17,883	15,659	796
Mississippi	11	2,795	8,947	12,865	24,608	184	24,803	3,303	724
New Mexico	2,725	–	21,877	773	22,650	–	25,375	7,323	220
Texas	1,397	6,550	40,109	96,349	143,008	–	144,405	100,619	4,987
PAD District IV Total	**9,213**	**2,107**	**91,157**	**34,618**	**127,882**	**100**	**137,194**	**10,055**	**1,022**
Colorado	1,179	464	8,984	6,714	16,163	–	17,342	7	55
Idaho	2,114	125	9,883	16,005	26,012	–	28,126	93	4
Montana	3,229	209	20,740	2,236	23,185	–	26,415	841	3
Utah	735	531	12,914	4,804	18,249	11	18,995	8,434	50
Wyoming	1,954	778	38,636	4,858	44,273	90	46,316	680	909
PAD District V Total	**10,701**	**8,526**	**193,146**	**199,240**	**400,912**	**1,495**	**413,108**	**168,338**	**2,263**
Alaska	6,523	2,063	27,511	13,383	42,957	–	49,480	15,377	5
Arizona	495	–	22,400	66,996	89,396	21	89,912	2,782	18
California	37	1,877	71,915	3,747	77,540	1,473	79,050	59,985	1,782
Hawaii	–	124	705	2,405	3,234	–	3,234	7,354	14
Nevada	2,944	126	43,695	86,922	130,743	–	133,688	44,324	53
Oregon	137	2,741	8,314	16,371	27,427	–	27,564	13,303	103
Washington	566	1,595	18,606	9,415	29,615	–	30,181	25,213	287

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 1995.
• Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1995, (DOE/EIA-0340(95)/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, 1995
(Thousand Gallons)

Destination	Farm				Electric		Oil Company Use	
	Diesel	Other Distillate	Total Distillate	Kerosene	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil
U.S. Total	**3,333,643**	**142,829**	**3,476,472**	**19,919**	**597,461**	**3,262,492**	**686,750**	**211,450**
PAD District I Total	**344,585**	**52,560**	**397,145**	**7,629**	**257,997**	**2,757,058**	**10,363**	**101,087**
Subdistrict IA Total	**11,311**	**6,154**	**17,465**	**685**	**21,866**	**636,040**	**1,423**	**207**
Connecticut	2,785	2,684	5,469	20	2,858	91,312	389	207
Maine	2,420	1,390	3,810	220	1,051	57,674	87	–
Massachusetts	1,621	621	2,241	65	11,366	391,725	480	–
New Hampshire	555	429	985	105	1,204	93,992	–	–
Rhode Island	32	22	54	–	5,054	1,338	444	–
Vermont	3,898	1,008	4,906	274	333	–	22	–
Subdistrict IB Total	**76,036**	**28,637**	**104,672**	**1,707**	**112,865**	**963,580**	**3,623**	**100,249**
Delaware	3,179	30	3,209	44	3,118	76,774	305	35,541
District of Columbia	–	–	–	–	23,567	–	–	–
Maryland	24,118	2,668	26,787	728	27,029	84,940	616	630
New Jersey	5,068	2,040	7,108	7	3,895	83,618	931	2,463
New York	20,254	13,949	34,203	287	9,203	584,682	1,255	1,147
Pennsylvania	23,417	9,950	33,367	641	46,054	133,566	515	60,468
Subdistrict IC Total	**257,238**	**17,770**	**275,007**	**5,238**	**123,266**	**1,157,438**	**5,317**	**631**
Florida	67,945	138	68,083	80	53,446	1,126,980	1,155	60
Georgia	101,028	5	101,034	172	16,270	1,637	1,366	–
North Carolina	37,384	7,001	44,385	781	22,352	–	140	–
South Carolina	16,162	528	16,690	217	12,743	–	1	168
Virginia	31,762	8,925	40,687	3,246	7,231	28,821	1,983	402
West Virginia	2,957	1,173	4,129	743	11,225	–	672	–
PAD District II Total	**1,651,022**	**74,610**	**1,725,632**	**10,186**	**135,966**	**86,734**	**47,290**	**64,084**
Illinois	211,056	10,622	221,678	881	25,667	41,773	2,444	10,255
Indiana	108,684	2,242	110,926	498	16,839	3,574	2,211	29,284
Iowa	176,639	5,170	181,808	1,499	2,183	–	6	–
Kansas	165,355	1,164	166,519	222	2,647	–	5,012	–
Kentucky	38,063	1,102	39,165	1,305	9,035	–	585	4,709
Michigan	55,647	4,430	60,078	233	23,238	33,394	2,203	956
Minnesota	160,231	13,714	173,945	1,167	4,906	–	68	8,623
Missouri	60,415	201	60,615	237	6,293	6,818	55	–
Nebraska	182,056	4,621	186,677	249	1,594	–	774	–
North Dakota	98,890	9,896	108,785	8	3,945	–	6,208	3,349
Ohio	93,658	8,206	101,864	3,161	21,569	1,175	2,172	3,114
Oklahoma	71,617	2,340	73,958	82	885	–	25,412	–
South Dakota	77,243	2,823	80,066	67	278	–	29	–
Tennessee	65,027	497	65,524	374	9,825	–	108	178
Wisconsin	86,442	7,581	94,022	204	7,062	–	2	3,617
PAD District III Total	**735,496**	**6,588**	**742,083**	**425**	**45,745**	**463**	**547,164**	**192**
Alabama	50,117	53	50,169	9	8,180	–	9,429	–
Arkansas	123,346	2	123,348	84	9,954	–	1,349	–
Louisiana	70,393	–	70,393	17	8,578	435	329,392	–
Mississippi	105,755	–	105,755	24	1,539	27	2,458	–
New Mexico	17,064	–	17,064	24	1,192	–	23,829	–
Texas	368,821	6,533	375,353	267	16,302	–	180,706	192
PAD District IV Total	**186,829**	**1,941**	**188,770**	**175**	**5,122**	**311**	**24,161**	**11,779**
Colorado	55,760	222	55,982	84	661	–	9,075	–
Idaho	48,709	76	48,785	35	350	245	–	–
Montana	56,671	1,346	58,017	4	38	–	1,201	8,707
Utah	14,123	105	14,228	52	1,691	–	3,513	3,073
Wyoming	11,567	192	11,759	–	2,383	66	10,373	–
PAD District V Total	**415,712**	**7,130**	**422,842**	**1,504**	**152,631**	**417,927**	**57,772**	**34,309**
Alaska	154	4	158	–	35,713	–	46,571	–
Arizona	28,950	–	28,950	4	2,370	–	267	42
California	255,793	504	256,297	308	4,289	–	9,717	36
Hawaii	4,491	1,949	6,440	1	108,713	417,822	997	32,992
Nevada	4,226	171	4,397	12	501	–	74	40
Oregon	57,682	3,291	60,973	605	825	105	5	–
Washington	64,415	1,212	65,627	574	220	–	141	1,199

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 1995.
• Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1995, (DOE/EIA-0340(95)/1).

Table 11. Sales for Transportation Use: Distillate Fuel Oil and Residual Fuel Oil, 1995
(Thousand Gallons)

Destination	Railroad Use	Vessel Bunkering		On-Highway Diesel	Total Transportation Use	
	Distillate Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil
U.S. Total	**3,428,829**	**2,339,010**	**5,886,409**	**25,576,433**	**31,344,272**	**5,886,409**
PAD District I Total	**561,677**	**541,806**	**1,189,352**	**8,099,324**	**9,202,808**	**1,189,352**
Subdistrict IA Total	**29,655**	**80,833**	**9,750**	**837,751**	**948,238**	**9,750**
Connecticut	6,788	3,358	–	199,252	209,397	–
Maine	6,792	19,632	3,768	129,755	156,179	3,768
Massachusetts	15,170	47,798	5,941	315,292	378,259	5,941
New Hampshire	305	332	–	63,113	63,750	–
Rhode Island	19	9,253	41	44,142	53,414	41
Vermont	581	461	–	86,197	87,239	–
Subdistrict IB Total	**195,481**	**159,573**	**681,807**	**3,007,852**	**3,362,906**	**681,807**
Delaware	463	1,353	40,462	62,912	64,728	40,462
District of Columbia	5,751	13	–	21,205	26,969	–
Maryland	28,245	20,852	28,594	323,559	372,656	28,594
New Jersey	78,277	108,512	327,291	488,531	675,320	327,291
New York	11,578	11,865	91,781	915,846	939,290	91,781
Pennsylvania	71,167	16,978	193,679	1,195,799	1,283,944	193,679
Subdistrict IC Total	**336,541**	**301,400**	**497,795**	**4,253,721**	**4,891,663**	**497,795**
Florida	94,200	167,123	343,562	1,003,655	1,264,978	343,562
Georgia	71,536	15,348	56,717	1,107,982	1,194,866	56,717
North Carolina	75,483	18,142	5,960	774,747	868,372	5,960
South Carolina	7,187	4,078	16,264	460,194	471,459	16,264
Virginia	73,546	31,318	75,292	688,044	792,908	75,292
West Virginia	14,591	65,391	–	219,099	299,081	–
PAD District II Total	**1,427,588**	**415,963**	**18,768**	**8,572,145**	**10,415,696**	**18,768**
Illinois	177,790	49,141	1,143	[E]845,546	1,072,477	1,143
Indiana	141,093	15,369	9,626	976,069	1,132,531	9,626
Iowa	58,777	6,358	–	409,958	475,093	–
Kansas	215,698	–	–	343,175	558,873	–
Kentucky	113,285	146,352	–	581,148	840,785	–
Michigan	60,488	3,672	3,853	735,953	800,113	3,853
Minnesota	111,512	5,162	–	453,926	570,600	–
Missouri	20,728	86,383	865	737,909	845,021	865
Nebraska	108,815	–	–	312,127	420,942	–
North Dakota	44,827	–	–	131,234	176,061	–
Ohio	127,304	7,553	2,306	1,100,569	1,235,426	2,306
Oklahoma	97,374	512	–	496,860	594,746	–
South Dakota	4,662	–	–	135,905	140,567	–
Tennessee	92,764	92,313	77	728,024	913,101	77
Wisconsin	52,470	3,148	898	583,742	639,360	898
PAD District III Total	**666,829**	**950,382**	**1,958,248**	**4,089,230**	**5,706,441**	**1,958,248**
Alabama	52,669	62,981	106,730	691,273	806,923	106,730
Arkansas	62,499	3,107	–	488,499	554,105	–
Louisiana	22,647	564,367	927,338	481,346	1,068,360	927,338
Mississippi	28,351	25,381	103,276	374,214	427,946	103,276
New Mexico	18,263	–	–	107,055	125,318	–
Texas	482,400	294,546	820,905	1,946,843	2,723,789	820,905
PAD District IV Total	**341,923**	**55**	**–**	**1,117,000**	**1,458,978**	**–**
Colorado	104,913	–	–	276,585	381,498	–
Idaho	29,506	33	–	167,819	197,358	–
Montana	79,246	4	–	158,451	237,701	–
Utah	31,626	18	–	258,135	289,778	–
Wyoming	96,633	–	–	256,010	352,643	–
PAD District V Total	**430,811**	**430,804**	**2,720,041**	**3,698,734**	**4,560,349**	**2,720,041**
Alaska	4,438	147,529	4,674	109,740	261,707	4,674
Arizona	4,615	20	–	483,186	487,821	–
California	236,401	104,067	1,797,809	2,089,687	2,430,155	1,797,809
Hawaii	–	82,814	109,640	27,080	109,894	109,640
Nevada	15,847	–	–	[E]172,332	188,179	–
Oregon	92,627	22,019	129,370	[E]353,384	468,029	129,370
Washington	76,883	74,355	678,548	463,325	614,563	678,548

[E] Estimated data. Illinois' and Nevada's annual estimates are based on eleven months of data. Since 1994 data for Oregon were not available, estimate is based on 1993 data. Oregon's 1995 data represent a Federal Highway Administration estimate.

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 1995.

• On-Highway Diesel data are Federal Highway Administation 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, 1995
(Thousand Gallons)

Destination	Military				Off-Highway Distillate Fuel Oil			All Other		
	Diesel	Other Distillate	Total Distillate	Residual Fuel Oil	Construction	Other	Total	Distillate Fuel Oil	Residual Fuel Oil	Kerosene
U.S. Total	**424,000**	**37,740**	**461,740**	**50,902**	**1,627,806**	**545,249**	**2,173,054**	**–**	**6,735**	**7,576**
PAD District I Total	**66,746**	**31,934**	**98,681**	**39,976**	**477,710**	**132,210**	**609,920**	**–**	**4,578**	**3,476**
Subdistrict IA Total	**12,937**	**6,787**	**19,724**	**7,316**	**53,329**	**17,317**	**70,646**	**–**	**1,139**	**413**
Connecticut	91	569	660	470	8,973	1,128	10,101	–	679	58
Maine	107	2,619	2,725	4,589	10,511	10,843	21,355	–	328	146
Massachusetts	9,473	51	9,524	2,226	21,437	1,230	22,667	–	132	51
New Hampshire	1,291	–	1,291	–	6,085	2,740	8,825	–	–	86
Rhode Island	1,813	3,440	5,253	31	4,148	–	4,148	–	–	–
Vermont	161	109	270	–	2,174	1,376	3,550	–	–	72
Subdistrict IB Total	**7,665**	**17,741**	**25,405**	**19,128**	**152,672**	**10,516**	**163,188**	**–**	**6**	**1,800**
Delaware	18	1,182	1,200	1,769	4,461	10	4,471	–	6	151
District of Columbia	15	1,035	1,050	–	503	–	503	–	–	–
Maryland	6,709	6,813	13,521	9,579	21,322	1,044	22,366	–	–	157
New Jersey	172	641	814	2,692	24,709	3,120	27,829	–	–	126
New York	106	2,006	2,112	3,245	42,814	1,117	43,930	–	–	255
Pennsylvania	644	6,064	6,709	1,842	58,863	5,226	64,088	–	–	1,111
Subdistrict IC Total	**46,145**	**7,407**	**53,551**	**13,532**	**271,710**	**104,377**	**376,086**	**–**	**3,434**	**1,262**
Florida	12,034	–	12,034	2,259	117,592	4,351	121,943	–	2,854	18
Georgia	8,570	2,264	10,834	–	47,166	28,261	75,427	–	–	227
North Carolina	6,071	2,441	8,512	6,297	51,906	29,230	81,136	–	63	619
South Carolina	1,250	–	1,250	1,447	17,162	23,208	40,370	–	36	182
Virginia	18,138	2,379	20,517	3,529	29,652	14,463	44,114	–	481	56
West Virginia	82	323	405	–	8,232	4,864	13,096	–	–	160
PAD District II Total	**14,363**	**1,663**	**16,026**	**310**	**501,182**	**97,865**	**599,047**	**–**	**169**	**2,603**
Illinois	424	–	424	310	59,553	4,918	64,471	–	35	547
Indiana	458	193	652	–	22,256	9,188	31,444	–	–	182
Iowa	199	–	199	–	37,758	13,472	51,230	–	8	37
Kansas	1,062	–	1,062	–	30,676	1,014	31,689	–	–	115
Kentucky	2,128	33	2,161	–	34,198	6,057	40,256	–	–	724
Michigan	349	2	352	–	37,183	12,790	49,973	–	40	205
Minnesota	202	57	259	–	36,331	12,437	48,768	–	–	14
Missouri	2,125	577	2,702	–	36,197	10,170	46,366	–	–	95
Nebraska	396	–	396	–	17,015	1,271	18,286	–	3	101
North Dakota	987	243	1,230	–	6,329	1,933	8,262	–	–	6
Ohio	858	–	858	–	69,955	3,533	73,489	–	–	350
Oklahoma	1,522	–	1,522	–	19,509	2,237	21,746	–	–	65
South Dakota	797	91	888	–	7,623	1,308	8,931	–	–	3
Tennessee	1,215	–	1,215	–	57,362	7,859	65,221	–	–	74
Wisconsin	1,642	466	2,108	–	29,236	9,678	38,914	–	84	84
PAD District III Total	**190,302**	**1,083**	**191,386**	**1,792**	**279,135**	**152,927**	**432,062**	**–**	**–**	**837**
Alabama	6,623	–	6,623	–	31,146	41,303	72,449	–	–	135
Arkansas	498	485	984	–	14,279	24,428	38,706	–	–	349
Louisiana	31,333	–	31,333	1,792	65,332	18,177	83,508	–	–	111
Mississippi	5,964	–	5,964	–	14,405	23,970	38,375	–	–	67
New Mexico	1,479	–	1,479	–	15,943	2,015	17,958	–	–	52
Texas	144,406	598	145,004	–	138,030	43,035	181,065	–	–	122
PAD District IV Total	**1,881**	**108**	**1,989**	**–**	**93,472**	**23,523**	**116,996**	**–**	**209**	**101**
Colorado	1,258	108	1,365	–	38,085	920	39,006	–	3	58
Idaho	76	–	76	–	9,773	13,333	23,105	–	29	34
Montana	331	–	331	–	11,328	3,870	15,198	–	–	–
Utah	201	–	201	–	21,395	2,931	24,326	–	40	2
Wyoming	14	–	14	–	12,891	2,469	15,360	–	137	6
PAD District V Total	**150,708**	**2,951**	**153,659**	**8,824**	**276,306**	**138,723**	**415,029**	**–**	**1,779**	**560**
Alaska	4,803	816	5,619	–	18,105	22,564	40,669	–	–	–
Arizona	983	13	996	–	36,285	3,123	39,407	–	–	2
California	128,743	–	128,743	7,807	137,947	32,146	170,093	–	104	267
Hawaii	8,583	–	8,583	120	13,545	–	13,545	–	1,653	–
Nevada	1,155	–	1,155	–	11,631	2,657	14,288	–	–	11
Oregon	1,137	73	1,210	897	19,536	48,965	68,502	–	22	248
Washington	5,304	2,050	7,354	–	39,258	29,268	68,525	–	–	31

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 1995.
• Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1995, (DOE/EIA-0340(95)/1).

Adjusted Sales of Fuel Oil and Kerosene in 1995

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. 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.

The products supplied estimates can be found in the 1991 through 1995 issues of the *Petroleum Supply Annual*. 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 decreased slightly from 64.9 billion gallons in 1994 to 63.0 billion gallons in 1995. While adjusted sales of distillate increased 1.4 percent in 1995, residual fuel oil dropped 16.6 percent. Kerosene adjusted sales increased by 10.4 percent.

Table 13. Adjusted Sales of Distillate Fuel Oil by End Use in the United States: 1991-1995
(Thousand Gallons)

End Use	Distillate Fuel Oil				
	1991	1992	1993	1994	1995
U.S. Total	**44,775,360**	**45,791,466**	**46,621,806**	**48,477,156**	**49,157,598**
Residential	5,993,482	6,238,133	6,577,146	6,335,853	6,370,381
Commercial	3,471,468	3,347,133	3,342,105	3,343,090	3,318,818
Industrial	2,326,519	2,218,843	1,965,557	2,091,611	2,027,409
Oil Company	910,761	785,120	763,068	703,946	556,126
Farm	3,285,639	3,504,846	3,238,675	3,198,640	3,230,765
Electric Utility	590,801	468,795	586,845	755,219	601,185
Railroad	3,026,292	3,217,231	2,906,998	3,063,441	3,191,023
Vessel Bunkering	2,167,640	2,240,170	2,043,745	2,026,899	1,978,105
On-Highway Diesel	20,485,364	21,374,872	22,758,842	24,442,609	25,576,433
Military	828,733	650,178	482,773	526,563	368,219
Off-Highway Diesel	1,686,262	1,739,068	1,953,640	1,988,481	1,939,133
All Other	2,399	7,075	2,411	804	–

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 1991-1995.
• 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 Administation statistics of highway special fuels use.
• Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1991-1995, (DOE/EIA-0340(91)/1 - (95)/1).

Table 14. Adjusted Sales of Residual Fuel Oil by End Use in the United States: 1991-1995
(Thousand Gallons)

End Use	Residual Fuel Oil				
	1991	1992	1993	1994	1995
U.S. Total	**17,750,250**	**16,816,674**	**16,559,004**	**15,648,654**	**13,058,262**
Commercial	1,426,656	1,289,987	1,217,796	1,171,495	1,007,962
Industrial	1,938,473	2,332,911	2,823,049	2,579,494	2,160,606
Oil Company	301,511	297,332	316,372	267,921	231,022
Electric Utility	7,169,599	5,587,235	5,841,192	5,609,752	3,164,462
Vessel Bunkering	6,786,055	7,199,078	6,269,882	5,944,838	6,431,238
Military	120,204	100,684	86,109	68,368	55,614
All Other	7,752	9,448	4,604	6,745	7,359

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 1991-1995.
• 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, 1991-1995, (DOE/EIA-0340(91)/1 - (95)/1).

Table 15. Adjusted Sales of Kerosene by End Use in the United States: 1991-1995
(Thousand Gallons)

End Use	Kerosene				
	1991	1992	1993	1994	1995
U.S. Total	**709,716**	**636,426**	**760,788**	**750,330**	**828,450**
Residential	491,929	481,511	560,103	480,916	550,336
Commercial	97,186	82,398	103,996	144,142	163,716
Industrial	76,055	46,099	58,190	86,629	86,902
Farm	24,868	20,036	27,695	27,686	19,919
All Other	19,678	6,382	10,805	10,957	7,576

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 for 1992 through 1995 and at the PAD district level for prior years. 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, 1991-1995, (DOE/EIA-0340(91)/1 - (95)/1).

Table 16. Adjusted Sales of Distillate Fuel Oil by End Use, 1994 and 1995

(Thousand Gallons)

Destination	Residential		Commercial		Industrial	
	1994	1995	1994	1995	1994	1995
U.S. Total	**6,335,853**	**6,370,381**	**3,343,090**	**3,318,818**	**2,091,611**	**2,027,409**
PAD District I Total	**5,135,439**	**5,230,793**	**2,205,780**	**2,231,502**	**629,893**	**699,573**
Subdistrict IA Total	**1,990,851**	**2,053,812**	**552,211**	**583,812**	**104,895**	**95,439**
Connecticut	526,930	509,969	103,540	122,824	23,283	19,974
Maine	236,631	310,466	96,141	93,004	29,558	25,623
Massachusetts	828,893	816,733	232,689	263,716	28,120	28,613
New Hampshire	159,963	181,071	53,640	45,946	8,621	8,583
Rhode Island	147,504	141,080	33,919	30,160	9,543	7,121
Vermont	90,930	94,494	32,282	28,162	5,771	5,525
Subdistrict IB Total	**2,734,203**	**2,738,813**	**1,288,376**	**1,209,806**	**247,322**	**219,933**
Delaware	49,474	45,306	10,853	11,459	6,944	6,442
District of Columbia	5,594	11,575	38,069	33,777	66	173
Maryland	209,053	200,384	128,442	126,085	27,531	24,853
New Jersey	517,534	489,693	208,985	141,133	48,681	48,129
New York	1,122,298	1,165,204	611,975	639,527	45,032	51,832
Pennsylvania	830,250	826,651	290,053	257,826	119,068	88,504
Subdistrict IC Total	**410,385**	**438,168**	**365,193**	**437,884**	**277,676**	**384,201**
Florida	10,444	9,273	91,858	119,833	39,014	59,559
Georgia	4,727	6,677	43,417	59,140	27,635	39,208
North Carolina	136,622	163,759	82,147	95,456	52,778	73,053
South Carolina	28,017	28,157	27,314	40,794	16,672	24,906
Virginia	206,078	210,110	103,331	108,137	37,853	69,042
West Virginia	24,498	20,193	17,125	14,523	103,725	118,433
PAD District II Total	**991,741**	**923,558**	**589,602**	**593,639**	**685,255**	**658,340**
Illinois	33,860	34,576	92,873	84,979	55,409	59,580
Indiana	76,644	67,067	64,412	50,155	95,796	67,786
Iowa	40,817	35,476	16,395	18,859	12,332	16,315
Kansas	1,139	649	20,910	25,553	8,917	9,840
Kentucky	34,239	32,835	41,448	50,597	176,657	195,758
Michigan	169,100	173,335	60,256	74,420	38,742	41,584
Minnesota	141,937	140,184	37,883	39,150	50,438	44,842
Missouri	14,818	19,828	50,087	54,079	22,273	27,005
Nebraska	6,754	4,000	15,187	7,344	4,239	4,055
North Dakota	30,734	32,569	8,065	6,723	5,118	10,744
Ohio	205,280	181,673	62,952	77,648	115,362	83,688
Oklahoma	6	494	11,026	12,267	13,690	5,939
South Dakota	22,486	22,775	11,141	13,674	16,189	8,461
Tennessee	12,680	11,820	42,208	33,558	32,967	32,698
Wisconsin	201,247	166,276	54,756	44,635	37,126	50,045
PAD District III Total	**1,745**	**817**	**232,299**	**154,060**	**341,795**	**228,026**
Alabama	545	363	44,897	22,385	99,533	48,915
Arkansas	41	71	18,258	10,466	11,612	11,870
Louisiana	526	49	36,295	8,947	69,098	14,077
Mississippi	45	17	18,125	11,051	27,659	19,523
New Mexico	332	100	8,880	8,415	11,315	19,973
Texas	256	217	105,844	92,796	122,577	113,668
PAD District IV Total	**38,584**	**39,542**	**107,641**	**89,802**	**183,558**	**151,288**
Colorado	1,070	1,699	51,143	34,217	25,143	19,123
Idaho	21,982	21,427	18,512	19,082	26,361	31,016
Montana	7,931	10,595	7,933	4,963	37,839	29,128
Utah	4,729	3,515	20,296	18,615	24,797	20,946
Wyoming	2,871	2,307	9,756	12,924	69,418	51,074
PAD District V Total	**168,345**	**175,671**	**207,769**	**249,814**	**251,110**	**290,182**
Alaska	52,604	62,800	49,644	32,097	13,111	34,756
Arizona	150	179	10,603	10,991	44,719	63,157
California	6,212	5,433	63,103	98,146	48,160	55,527
Hawaii	47	56	10,548	10,651	2,101	2,272
Nevada	6,325	5,459	22,129	25,796	86,496	93,907
Oregon	39,140	39,591	21,500	32,928	21,691	19,362
Washington	63,867	62,151	30,243	39,205	34,833	21,200

See footnotes at end of table.

Table 16. Adjusted Sales of Distillate Fuel Oil by End Use, 1994 and 1995 (Continued)

(Thousand Gallons)

Destination	Oil Company		Farm		Electric Utility	
	1994	1995	1994	1995	1994	1995
U.S. Total	**703,946**	**556,126**	**3,198,640**	**3,230,765**	**755,219**	**601,185**
PAD District I Total	**10,733**	**9,552**	**307,090**	**366,050**	**401,459**	**259,605**
Subdistrict IA Total	**1,293**	**1,311**	**17,770**	**16,097**	**28,681**	**22,002**
Connecticut	359	359	4,049	5,041	3,039	2,876
Maine	74	80	5,232	3,511	869	1,057
Massachusetts	580	442	2,402	2,066	20,584	11,437
New Hampshire	–	–	1,403	908	1,297	1,212
Rhode Island	265	409	526	50	2,009	5,085
Vermont	15	21	4,159	4,522	884	335
Subdistrict IB Total	**4,641**	**3,339**	**103,686**	**96,477**	**213,882**	**113,569**
Delaware	268	282	3,908	2,957	6,734	3,138
District of Columbia	–	–	–	–	36,208	23,714
Maryland	634	568	17,369	24,689	37,419	27,197
New Jersey	1,947	858	8,279	6,551	20,248	3,919
New York	780	1,157	43,516	31,525	30,168	9,260
Pennsylvania	1,013	475	30,613	30,754	83,106	46,341
Subdistrict IC Total	**4,799**	**4,901**	**185,633**	**253,475**	**158,895**	**124,035**
Florida	999	1,065	50,668	62,753	65,289	53,779
Georgia	791	1,259	50,971	93,123	11,106	16,371
North Carolina	131	129	35,164	40,910	25,797	22,491
South Carolina	1	1	12,521	15,383	14,161	12,822
Virginia	1,227	1,827	32,107	37,501	24,980	7,276
West Virginia	1,652	619	4,202	3,806	17,561	11,295
PAD District II Total	**74,215**	**48,654**	**1,833,710**	**1,775,409**	**152,275**	**136,813**
Illinois	1,047	2,515	186,479	228,073	12,851	25,827
Indiana	2,874	2,275	82,203	114,126	8,443	16,944
Iowa	1	6	241,258	187,053	4,036	2,197
Kansas	5,513	5,156	185,850	171,323	5,083	2,664
Kentucky	683	602	48,455	40,295	17,001	9,092
Michigan	3,567	2,266	79,363	61,811	19,398	23,383
Minnesota	8	70	177,349	178,963	5,241	4,936
Missouri	5	57	64,700	62,364	7,820	6,332
Nebraska	82	796	231,905	192,062	2,138	1,604
North Dakota	4,785	6,388	120,104	111,923	3,939	3,969
Ohio	3,817	2,234	87,585	104,803	31,528	21,703
Oklahoma	51,746	26,145	61,315	76,091	530	890
South Dakota	42	30	90,803	82,375	2,005	280
Tennessee	37	111	57,998	67,414	24,357	9,886
Wisconsin	7	2	118,342	96,734	7,906	7,106
PAD District III Total	**550,262**	**430,696**	**579,484**	**584,125**	**44,337**	**46,031**
Alabama	14,325	7,422	36,677	39,490	11,927	8,231
Arkansas	3,825	1,062	85,624	97,092	10,507	10,016
Louisiana	337,020	259,279	71,318	55,409	4,801	8,632
Mississippi	11,875	1,935	84,026	83,245	2,860	1,549
New Mexico	11,920	18,757	17,894	13,432	554	1,199
Texas	171,296	142,242	283,946	295,457	13,689	16,404
PAD District IV Total	**33,414**	**26,643**	**192,481**	**208,162**	**7,113**	**5,154**
Colorado	14,948	10,007	63,064	61,732	1,484	665
Idaho	–	–	57,277	53,796	58	352
Montana	635	1,325	40,090	63,977	105	38
Utah	7,895	3,873	15,692	15,689	3,228	1,701
Wyoming	9,936	11,438	16,358	12,967	2,238	2,398
PAD District V Total	**35,322**	**40,581**	**285,875**	**297,020**	**150,035**	**153,582**
Alaska	25,122	32,713	33	111	41,361	35,935
Arizona	251	188	13,273	20,335	2,809	2,385
California	9,213	6,826	197,245	180,032	4,301	4,316
Hawaii	480	700	6,604	4,524	97,315	109,390
Nevada	89	52	4,513	3,089	2,520	504
Oregon	2	3	28,846	42,830	1,028	830
Washington	164	99	35,361	46,099	700	221

See footnotes at end of table.

Table 16. Adjusted Sales of Distillate Fuel Oil by End Use, 1994 and 1995 (Continued)

(Thousand Gallons)

Destination	Railroad		Vessel Bunkering		On-Highway	
	1994	1995	1994	1995	1994	1995
U.S. Total	**3,063,441**	**3,191,023**	**2,026,899**	**1,978,105**	**24,442,609**	**25,576,433**
PAD District I Total	**493,382**	**517,700**	**443,254**	**499,385**	**7,833,800**	**8,099,324**
Subdistrict IA Total	**30,246**	**27,333**	**68,927**	**74,504**	**769,320**	**837,751**
Connecticut	5,469	6,256	2,792	3,095	176,778	199,252
Maine	8,737	6,261	21,178	18,095	127,602	129,755
Massachusetts	15,518	13,982	35,615	44,055	294,788	315,292
New Hampshire	198	281	420	306	55,727	63,113
Rhode Island	11	17	8,575	8,529	41,559	44,142
Vermont	314	536	347	424	72,866	86,197
Subdistrict IB Total	**188,641**	**180,176**	**124,361**	**147,079**	**2,987,381**	**3,007,852**
Delaware	547	427	1,776	1,247	61,356	62,912
District of Columbia	5,407	5,301	56	12	21,565	21,205
Maryland	27,445	26,033	12,460	19,219	306,348	323,559
New Jersey	82,758	72,148	78,826	100,016	554,233	488,531
New York	12,039	10,672	12,860	10,936	906,022	915,846
Pennsylvania	60,444	65,595	18,383	15,648	1,137,857	1,195,799
Subdistrict IC Total	**274,496**	**310,191**	**249,966**	**277,802**	**4,077,099**	**4,253,721**
Florida	82,820	86,824	129,176	154,038	878,915	1,003,655
Georgia	60,877	65,935	5,442	14,147	1,038,821	1,107,982
North Carolina	51,337	69,573	14,213	16,722	760,596	774,747
South Carolina	8,016	6,624	2,570	3,759	516,634	460,194
Virginia	56,869	67,787	38,469	28,866	676,118	688,044
West Virginia	14,577	13,449	60,096	60,271	206,015	219,099
PAD District II Total	**1,242,098**	**1,468,768**	**399,546**	**427,962**	**8,101,108**	**8,572,145**
Illinois	138,982	182,919	69,695	50,558	[E]740,451	[E]845,546
Indiana	179,542	145,163	13,955	15,812	933,435	976,069
Iowa	54,657	60,472	4,783	6,542	372,559	409,958
Kansas	108,993	221,920	–	–	294,362	343,175
Kentucky	108,555	116,553	125,474	150,574	582,087	581,148
Michigan	56,188	62,233	8,403	3,778	724,072	735,953
Minnesota	121,882	114,729	2,582	5,311	415,879	453,926
Missouri	16,030	21,326	61,705	88,875	725,701	737,909
Nebraska	105,121	111,954	–	–	281,594	312,127
North Dakota	44,243	46,120	–	–	124,796	131,234
Ohio	133,925	130,977	10,001	7,771	1,064,220	1,100,569
Oklahoma	88,859	100,183	201	527	476,271	496,860
South Dakota	5,015	4,797	–	–	133,800	135,905
Tennessee	29,630	95,440	99,676	94,976	674,143	728,024
Wisconsin	50,477	53,984	3,072	3,239	557,738	583,742
PAD District III Total	**731,702**	**524,890**	**891,570**	**748,086**	**4,046,337**	**4,089,230**
Alabama	61,760	41,458	80,451	49,575	649,271	691,273
Arkansas	71,687	49,196	2,636	2,446	467,619	488,499
Louisiana	30,618	17,826	492,519	444,237	437,193	481,346
Mississippi	46,167	22,317	41,237	19,978	352,785	374,214
New Mexico	16,485	14,375	–	–	222,791	107,055
Texas	504,985	379,717	274,727	231,850	1,916,678	1,946,843
PAD District IV Total	**345,273**	**377,048**	**70**	**60**	**975,232**	**1,117,000**
Colorado	104,832	115,691	–	–	258,390	276,585
Idaho	33,109	32,537	42	37	157,989	167,819
Montana	78,145	87,387	1	4	154,384	158,451
Utah	37,819	34,874	27	20	208,592	258,135
Wyoming	91,367	106,559	–	–	195,877	256,010
PAD District V Total	**250,985**	**302,617**	**292,460**	**302,612**	**3,486,132**	**3,698,734**
Alaska	2,703	3,118	83,481	103,629	53,142	109,740
Arizona	4,996	3,241	10	14	456,123	483,186
California	127,994	166,057	78,655	73,101	1,985,649	2,089,687
Hawaii	–	–	41,684	58,171	30,649	27,080
Nevada	8,116	11,132	–	–	172,148	[E]172,332
Oregon	68,723	65,064	25,328	15,467	[E]343,909	[E]353,384
Washington	38,452	54,005	63,301	52,230	444,512	463,325

See footnotes at end of table.

Table 16. Adjusted Sales of Distillate Fuel Oil by End Use, 1994 and 1995 (Continued)

(Thousand Gallons)

Destination	Military		Off-Highway		All Other		Total	
	1994	1995	1994	1995	1994	1995	1994	1995
U.S. Total	**526,563**	**368,219**	**1,988,481**	**1,939,133**	**804**	**–**	**48,477,156**	**49,157,598**
PAD District I Total	**105,428**	**90,954**	**476,285**	**562,165**	**28**	**–**	**18,042,570**	**18,566,604**
Subdistrict IA Total	**30,210**	**18,180**	**57,016**	**65,115**	**9**	**–**	**3,651,430**	**3,795,357**
Connecticut	2,424	608	4,228	9,310	9	–	852,899	879,564
Maine	19,169	2,512	24,491	19,683	–	–	569,683	610,046
Massachusetts	4,091	8,778	15,930	20,892	–	–	1,479,210	1,526,007
New Hampshire	758	1,190	5,287	8,134	–	–	287,313	310,744
Rhode Island	3,634	4,841	2,481	3,824	–	–	250,025	245,259
Vermont	133	249	4,600	3,272	–	–	212,300	223,737
Subdistrict IB Total	**31,706**	**23,416**	**168,400**	**150,411**	**17**	**–**	**8,092,616**	**7,890,871**
Delaware	858	1,106	3,200	4,121	–	–	145,918	139,397
District of Columbia	2,813	968	459	464	–	–	110,238	97,189
Maryland	17,705	12,463	25,622	20,615	14	–	810,041	805,665
New Jersey	600	750	34,523	25,650	–	–	1,556,613	1,377,377
New York	7,718	1,947	39,273	40,491	–	–	2,831,682	2,878,395
Pennsylvania	2,011	6,183	65,323	59,070	4	–	2,638,125	2,592,848
Subdistrict IC Total	**43,512**	**49,359**	**250,869**	**346,640**	**2**	**–**	**6,298,524**	**6,880,376**
Florida	7,719	11,092	67,678	112,395	–	–	1,424,578	1,674,266
Georgia	9,120	9,986	66,238	69,521	–	–	1,319,143	1,483,349
North Carolina	5,064	7,846	42,643	74,783	–	–	1,206,490	1,339,467
South Carolina	800	1,152	26,980	37,210	–	–	653,686	631,002
Virginia	20,639	18,910	32,670	40,660	–	–	1,230,342	1,278,162
West Virginia	169	373	14,660	12,070	2	–	464,284	474,131
PAD District II Total	**27,980**	**16,488**	**646,541**	**616,327**	**197**	**–**	**14,744,268**	**15,238,104**
Illinois	373	436	78,276	66,331	170	–	1,410,466	1,581,339
Indiana	1,017	671	35,452	32,352	–	–	1,493,774	1,488,418
Iowa	167	205	26,546	52,708	–	–	773,552	789,789
Kansas	4,605	1,093	25,660	32,604	–	–	661,031	813,975
Kentucky	2,485	2,223	42,622	41,417	14	–	1,179,721	1,221,094
Michigan	1,087	362	76,631	51,414	9	–	1,236,817	1,230,538
Minnesota	201	266	41,189	50,175	–	–	994,589	1,032,553
Missouri	4,335	2,780	59,063	47,704	4	–	1,026,541	1,068,260
Nebraska	808	407	10,547	18,814	–	–	658,374	653,162
North Dakota	1,515	1,265	5,632	8,500	–	–	348,931	359,435
Ohio	892	882	92,147	75,608	–	–	1,807,709	1,787,557
Oklahoma	3,321	1,566	19,356	22,373	–	–	726,322	743,335
South Dakota	311	913	11,420	9,188	–	–	293,212	278,398
Tennessee	3,080	1,250	66,113	67,103	–	–	1,042,888	1,142,281
Wisconsin	3,783	2,169	55,887	40,037	–	–	1,090,342	1,047,969
PAD District III Total	**234,953**	**150,648**	**478,783**	**340,094**	**579**	**–**	**8,133,846**	**7,296,702**
Alabama	5,015	5,213	63,966	57,027	4	–	1,068,369	971,354
Arkansas	3,558	774	49,579	30,468	187	–	725,131	701,959
Louisiana	57,169	24,663	89,782	65,733	–	–	1,626,340	1,380,197
Mississippi	15,883	4,695	49,206	30,207	375	–	650,244	568,730
New Mexico	3,028	1,164	10,654	14,135	–	–	303,854	198,606
Texas	150,301	114,139	215,596	142,524	12	–	3,759,908	3,475,855
PAD District IV Total	**14,808**	**2,193**	**113,711**	**129,014**	**–**	**–**	**2,011,884**	**2,145,906**
Colorado	8,537	1,506	27,962	43,013	–	–	556,574	564,238
Idaho	1,710	84	22,124	25,479	–	–	339,163	351,628
Montana	615	365	16,842	16,760	–	–	344,521	372,993
Utah	3,668	222	26,576	26,825	–	–	353,320	384,416
Wyoming	277	16	20,207	16,938	–	–	418,306	472,631
PAD District V Total	**143,395**	**107,936**	**273,161**	**291,532**	**–**	**–**	**5,544,588**	**5,910,282**
Alaska	7,867	3,947	24,908	28,567	–	–	353,975	447,415
Arizona	1,294	699	16,594	27,681	–	–	550,823	612,058
California	78,156	90,434	123,994	119,480	–	–	2,722,682	2,889,039
Hawaii	26,734	6,029	5,448	9,515	–	–	221,611	228,388
Nevada	930	811	15,064	10,036	–	–	318,331	323,119
Oregon	742	850	37,158	48,118	–	–	588,065	618,427
Washington	27,672	5,165	49,996	48,135	–	–	789,101	791,837

[E] Estimated data. Illinois' and Nevada's annual estimates are based on eleven months of data. Since 1994 data for Oregon were not available, estimate is based on 1993 data. Oregon's 1995 data represent a Federal Highway Administration estimate.

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 and 1995.

• 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 Administation statistics of highway special fuels use.

Table 17. Adjusted Sales of Residual Fuel Oil by End Use, 1994 and 1995

(Thousand Gallons)

Destination	Commercial		Industrial		Oil Company		Electric Utility	
	1994	1995	1994	1995	1994	1995	1994	1995
U.S. Total	**1,171,495**	**1,007,962**	**2,579,494**	**2,160,606**	**267,921**	**231,022**	**5,609,752**	**3,164,462**
PAD District I Total	**1,121,600**	**979,265**	**1,867,639**	**1,573,973**	**112,945**	**110,443**	**5,038,199**	**2,674,215**
Subdistrict IA Total	**236,254**	**219,050**	**642,308**	**500,146**	**368**	**226**	**980,615**	**616,928**
Connecticut	27,669	20,030	54,741	32,844	368	226	242,313	88,568
Maine	32,574	16,540	388,270	330,119	–	–	39,173	55,941
Massachusetts	126,510	137,470	115,211	65,156	–	–	605,810	379,955
New Hampshire	19,100	19,518	55,815	48,895	–	–	86,616	91,167
Rhode Island	26,727	22,333	19,887	16,672	–	–	6,703	1,297
Vermont	3,673	3,160	8,383	6,460	–	–	–	–
Subdistrict IB Total	**858,382**	**734,333**	**433,173**	**297,021**	**111,677**	**109,528**	**1,811,705**	**934,627**
Delaware	6,798	5,887	40,150	31,465	36,348	38,831	142,162	74,467
District of Columbia	7,177	5,827	32	7	–	–	–	–
Maryland	9,170	5,332	52,059	31,941	770	688	303,595	82,388
New Jersey	88,990	55,431	103,583	82,445	3,039	2,691	201,349	81,105
New York	687,810	607,151	132,759	87,863	2,487	1,253	874,658	567,114
Pennsylvania	58,438	54,705	104,591	63,300	69,033	66,065	289,941	129,553
Subdistrict IC Total	**26,964**	**25,881**	**792,158**	**776,806**	**901**	**689**	**2,245,879**	**1,122,659**
Florida	5,731	6,171	193,035	219,887	78	65	2,121,674	1,093,117
Georgia	288	515	120,558	116,400	–	–	1,784	1,588
North Carolina	11,290	8,294	249,517	258,785	–	–	–	–
South Carolina	2,801	1,711	103,342	94,314	169	184	–	–
Virginia	6,642	9,190	104,782	78,617	653	440	122,422	27,955
West Virginia	212	–	20,925	8,803	–	–	–	–
PAD District II Total	**22,957**	**15,886**	**377,669**	**221,377**	**89,967**	**70,015**	**144,774**	**84,128**
Illinois	2,822	2,011	14,012	5,031	11,643	11,204	85,023	40,518
Indiana	1,716	1,421	74,170	38,181	43,064	31,995	–	3,466
Iowa	47	–	7,637	4,118	–	–	–	–
Kansas	102	527	5,805	821	1,590	–	57	–
Kentucky	77	–	8,314	3,868	5,510	5,144	–	–
Michigan	144	215	36,621	16,904	4,344	1,044	50,739	32,391
Minnesota	6,790	4,993	29,834	14,568	9,761	9,421	–	–
Missouri	834	46	19,622	14,296	–	–	8,589	6,613
Nebraska	800	27	8,192	5,381	–	–	–	–
North Dakota	624	846	7,410	2,833	6,423	3,659	163	–
Ohio	319	203	78,427	57,582	3,790	3,402	203	1,140
Oklahoma	–	12	23,228	14,739	–	–	–	–
South Dakota	259	109	3,485	503	–	–	–	–
Tennessee	1,377	636	17,970	15,297	–	195	–	–
Wisconsin	7,045	4,839	42,942	27,256	3,842	3,952	–	–
PAD District III Total	**66**	**119**	**183,026**	**170,352**	**755**	**210**	**78,857**	**449**
Alabama	33	118	45,544	22,565	–	–	–	–
Arkansas	–	–	11,351	9,136	–	–	1,755	–
Louisiana	–	–	9,769	17,109	–	–	4,429	422
Mississippi	–	–	7,298	3,608	–	–	69,197	27
New Mexico	–	–	7,532	8,001	–	–	–	–
Texas	33	–	101,532	109,932	755	210	3,476	–
PAD District IV Total	**1,303**	**927**	**10,586**	**10,985**	**21,047**	**12,870**	**595**	**302**
Colorado	–	–	48	7	4	–	–	–
Idaho	291	195	584	101	–	–	595	237
Montana	144	147	138	919	15,515	9,512	–	–
Utah	834	572	8,244	9,215	5,528	3,357	–	–
Wyoming	33	13	1,572	743	–	–	–	64
PAD District V Total	**25,568**	**11,767**	**140,574**	**183,919**	**43,207**	**37,484**	**347,328**	**405,369**
Alaska	–	–	14,583	16,800	–	–	–	–
Arizona	–	–	1,907	3,040	–	46	–	–
California	329	179	56,564	65,537	475	39	15,927	–
Hawaii	18,527	2,790	12,078	8,034	36,239	36,045	325,737	405,268
Nevada	–	–	5,947	48,426	–	44	5,551	–
Oregon	4,681	3,883	17,701	14,534	–	–	113	101
Washington	2,031	4,915	31,794	27,547	6,492	1,310	–	–

See footnotes at end of table.

Table 17. Adjusted Sales of Residual Fuel Oil by End Use, 1994 and 1995 (Continued)

(Thousand Gallons)

Destination	Vessel Bunkering		Military		All Other		Total	
	1994	1995	1994	1995	1994	1995	1994	1995
U.S. Total	**5,944,838**	**6,431,238**	**68,368**	**55,614**	**6,745**	**7,359**	**15,648,654**	**13,058,262**
PAD District I Total	**1,324,807**	**1,299,435**	**59,394**	**43,676**	**3,915**	**5,002**	**9,528,540**	**6,686,008**
Subdistrict IA Total	**19,859**	**10,652**	**7,454**	**7,993**	**298**	**1,244**	**1,887,155**	**1,356,240**
Connecticut	–	–	957	514	292	741	326,340	142,923
Maine	5,041	4,117	4,912	5,013	6	358	469,975	412,089
Massachusetts	13,998	6,490	1,584	2,432	–	144	863,114	591,648
New Hampshire	408	–	–	–	–	–	161,939	159,580
Rhode Island	412	45	–	34	–	–	53,729	40,381
Vermont	–	–	–	–	–	–	12,057	9,619
Subdistrict IB Total	**715,148**	**744,913**	**35,691**	**20,898**	**512**	**6**	**3,966,329**	**2,841,327**
Delaware	52,384	44,207	1,080	1,933	–	6	278,921	196,796
District of Columbia	–	–	–	–	–	–	7,209	5,833
Maryland	25,544	31,241	16,163	10,466	–	–	407,302	162,056
New Jersey	261,035	357,584	8,013	2,941	–	–	666,008	582,198
New York	126,017	100,276	7,712	3,545	100	–	1,831,542	1,367,202
Pennsylvania	250,169	211,605	2,723	2,013	411	–	775,347	527,241
Subdistrict IC Total	**589,800**	**543,869**	**16,250**	**14,785**	**3,105**	**3,752**	**3,675,056**	**2,488,441**
Florida	428,809	375,361	2,591	2,468	2,950	3,118	2,754,867	1,700,189
Georgia	79,037	61,967	–	–	7	–	201,674	180,470
North Carolina	1,412	6,511	7,572	6,880	44	68	269,835	280,538
South Carolina	1,729	17,769	1,474	1,581	104	39	109,619	115,598
Virginia	78,814	82,261	4,612	3,856	–	525	317,924	202,843
West Virginia	–	–	–	–	–	–	21,137	8,803
PAD District II Total	**19,528**	**20,505**	**625**	**338**	**144**	**185**	**655,664**	**412,434**
Illinois	2,140	1,248	–	338	–	38	115,639	60,389
Indiana	9,548	10,517	–	–	–	–	128,497	85,580
Iowa	–	–	–	–	–	8	7,684	4,126
Kansas	–	–	–	–	7	–	7,562	1,349
Kentucky	–	–	–	–	–	–	13,901	9,012
Michigan	4,153	4,209	–	–	57	43	96,058	54,807
Minnesota	97	–	–	–	–	–	46,483	28,982
Missouri	300	945	625	–	1	–	29,971	21,900
Nebraska	–	–	–	–	68	3	9,060	5,411
North Dakota	–	–	–	–	–	–	14,621	7,338
Ohio	2,699	2,519	–	–	–	–	85,438	64,847
Oklahoma	–	–	–	–	–	–	23,228	14,751
South Dakota	–	–	–	–	–	–	3,744	611
Tennessee	107	84	–	–	10	–	19,464	16,211
Wisconsin	485	981	–	–	–	92	54,314	37,119
PAD District III Total	**2,067,345**	**2,139,498**	**4,592**	**1,958**	**7**	**–**	**2,334,648**	**2,312,585**
Alabama	99,181	116,608	57	–	6	–	144,821	139,291
Arkansas	–	–	–	–	1	–	13,106	9,136
Louisiana	1,011,024	1,013,170	1,081	1,958	–	–	1,026,302	1,032,660
Mississippi	151,394	112,835	–	–	–	–	227,889	116,470
New Mexico	–	–	–	–	–	–	7,532	8,001
Texas	805,747	896,885	3,453	–	–	–	914,996	1,007,027
PAD District IV Total	**54**	**–**	**–**	**–**	**231**	**228**	**33,815**	**25,312**
Colorado	54	–	–	–	3	4	109	11
Idaho	–	–	–	–	9	31	1,479	564
Montana	–	–	–	–	–	–	15,798	10,578
Utah	–	–	–	–	107	44	14,713	13,188
Wyoming	–	–	–	–	112	150	1,717	970
PAD District V Total	**2,533,105**	**2,971,800**	**3,758**	**9,641**	**2,448**	**1,944**	**3,095,987**	**3,621,924**
Alaska	4,289	5,106	–	–	–	–	18,872	21,907
Arizona	–	–	–	–	–	–	1,907	3,086
California	1,615,496	1,964,209	970	8,530	30	114	1,689,791	2,038,608
Hawaii	125,573	119,788	177	131	2,418	1,806	520,750	573,863
Nevada	–	–	–	–	–	–	11,499	48,470
Oregon	165,460	141,344	–	980	–	24	187,955	160,866
Washington	622,286	741,353	2,611	–	–	–	665,214	775,124

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 and 1995.
• 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 and 1995, (DOE/EIA-0340(94)/1 - (95)/1).

Table 18. Adjusted Sales of Kerosene by End Use, 1994 and 1995

(Thousand Gallons)

Destination	Residential		Commercial		Industrial	
	1994	1995	1994	1995	1994	1995
U.S. Total	**480,916**	**550,336**	**144,142**	**163,716**	**86,629**	**86,902**
PAD District I Total	**367,746**	**440,639**	**118,101**	**132,354**	**65,489**	**59,357**
Subdistrict IA Total	**68,971**	**78,901**	**15,420**	**16,254**	**5,495**	**7,148**
Connecticut	6,811	5,127	2,153	1,144	1,782	3,904
Maine	31,846	45,725	6,370	6,783	2,485	933
Massachusetts	9,174	5,463	4,194	4,615	482	1,365
New Hampshire	11,859	13,901	1,703	1,834	424	603
Rhode Island	1,605	1,123	202	1,278	309	284
Vermont	7,676	7,563	799	600	13	60
Subdistrict IB Total	**154,114**	**176,460**	**72,001**	**90,240**	**50,795**	**40,764**
Delaware	4,028	5,037	317	99	6,169	10
District of Columbia	187	265	251	5,402	–	–
Maryland	16,493	22,450	8,931	8,807	1,336	1,520
New Jersey	12,226	9,926	25,849	23,761	24,615	17,257
New York	58,612	52,099	22,607	30,006	12,603	16,640
Pennsylvania	62,567	86,682	14,047	22,166	6,071	5,337
Subdistrict IC Total	**144,660**	**185,278**	**30,680**	**25,859**	**9,199**	**11,444**
Florida	5,232	8,846	3,212	4,002	132	210
Georgia	3,365	5,278	6,251	1,477	555	1,053
North Carolina	54,933	88,104	14,288	6,178	2,604	3,429
South Carolina	15,604	19,751	1,100	1,094	2,786	2,849
Virginia	52,773	51,244	4,231	11,566	944	1,838
West Virginia	12,753	12,055	1,598	1,542	2,178	2,065
PAD District II Total	**99,015**	**93,893**	**21,118**	**25,255**	**13,517**	**15,373**
Illinois	3,030	3,521	2,105	3,375	2,001	3,991
Indiana	11,554	9,016	2,814	2,947	857	1,221
Iowa	791	1,032	537	106	302	205
Kansas	320	533	161	236	67	90
Kentucky	16,396	17,428	3,048	4,925	2,699	2,813
Michigan	13,526	9,772	1,374	4,285	1,464	894
Minnesota	1,893	2,097	587	979	141	106
Missouri	1,006	1,357	604	432	255	111
Nebraska	220	157	223	168	21	27
North Dakota	240	154	33	54	8	2
Ohio	29,785	31,432	6,064	3,727	4,544	4,355
Oklahoma	214	156	164	216	64	104
South Dakota	159	156	13	30	3	3
Tennessee	18,456	15,644	3,051	3,362	778	1,110
Wisconsin	1,425	1,439	341	412	312	341
PAD District III Total	**3,531**	**5,758**	**2,629**	**3,241**	**5,438**	**8,889**
Alabama	1,220	2,789	449	402	1,274	1,739
Arkansas	271	584	179	190	63	422
Louisiana	214	380	530	250	880	796
Mississippi	847	847	109	312	808	724
New Mexico	144	235	125	147	128	220
Texas	835	923	1,238	1,940	2,284	4,987
PAD District IV Total	**2,253**	**1,632**	**372**	**441**	**1,017**	**1,022**
Colorado	1,664	836	190	190	36	55
Idaho	93	627	79	128	7	4
Montana	237	21	35	11	4	3
Utah	227	121	65	45	43	50
Wyoming	33	27	3	66	927	909
PAD District V Total	**8,371**	**8,415**	**1,922**	**2,426**	**1,169**	**2,263**
Alaska	426	13	7	20	13	5
Arizona	75	85	35	49	10	18
California	2,827	3,397	524	1,122	807	1,782
Hawaii	1	1	5	5	19	14
Nevada	186	240	105	53	32	53
Oregon	2,099	1,072	588	594	141	103
Washington	2,755	3,607	658	582	147	287

See footnotes at end of table.

Table 18. Adjusted Sales of Kerosene by End Use, 1994 and 1995 (Continued)

(Thousand Gallons)

Destination	Farm		All Other		Total	
	1994	1995	1994	1995	1994	1995
U.S. Total	**27,686**	**19,919**	**10,957**	**7,576**	**750,330**	**828,450**
PAD District I Total	**10,070**	**7,629**	**6,055**	**3,476**	**567,460**	**643,455**
Subdistrict IA Total	**1,027**	**685**	**591**	**413**	**91,504**	**103,401**
Connecticut	35	20	129	58	10,910	10,254
Maine	471	220	87	146	41,258	53,806
Massachusetts	24	65	229	51	14,102	11,559
New Hampshire	91	105	78	86	14,154	16,529
Rhode Island	–	–	1	–	2,118	2,685
Vermont	405	274	68	72	8,962	8,569
Subdistrict IB Total	**3,995**	**1,707**	**4,885**	**1,800**	**285,790**	**310,972**
Delaware	21	44	73	151	10,609	5,341
District of Columbia	–	–	–	–	438	5,667
Maryland	467	728	982	157	28,210	33,662
New Jersey	23	7	436	126	63,149	51,077
New York	1,170	287	1,127	255	96,119	99,287
Pennsylvania	2,313	641	2,267	1,111	87,265	115,938
Subdistrict IC Total	**5,048**	**5,238**	**579**	**1,262**	**190,167**	**229,082**
Florida	39	80	153	18	8,767	13,156
Georgia	29	172	5	227	10,206	8,206
North Carolina	902	781	13	619	72,741	99,111
South Carolina	362	217	37	182	19,890	24,094
Virginia	3,101	3,246	213	56	61,261	67,951
West Virginia	614	743	158	160	17,302	16,564
PAD District II Total	**14,992**	**10,186**	**2,429**	**2,603**	**151,071**	**147,310**
Illinois	610	881	679	547	8,425	12,315
Indiana	2,321	498	480	182	18,026	13,865
Iowa	862	1,499	11	37	2,503	2,879
Kansas	135	222	50	115	733	1,197
Kentucky	1,185	1,305	286	724	23,615	27,194
Michigan	914	233	151	205	17,428	15,389
Minnesota	2,943	1,167	64	14	5,628	4,362
Missouri	61	237	108	95	2,034	2,231
Nebraska	374	249	32	101	871	702
North Dakota	13	8	7	6	302	224
Ohio	4,125	3,161	110	350	44,627	43,025
Oklahoma	906	82	12	65	1,359	623
South Dakota	31	67	2	3	208	259
Tennessee	224	374	354	74	22,863	20,564
Wisconsin	287	204	83	84	2,448	2,480
PAD District III Total	**1,579**	**425**	**1,898**	**837**	**15,075**	**19,149**
Alabama	13	9	53	135	3,010	5,075
Arkansas	11	84	647	349	1,171	1,629
Louisiana	31	17	399	111	2,054	1,554
Mississippi	23	24	374	67	2,161	1,974
New Mexico	6	24	64	52	466	678
Texas	1,495	267	361	122	6,213	8,240
PAD District IV Total	**117**	**175**	**108**	**101**	**3,867**	**3,369**
Colorado	78	84	37	58	2,005	1,223
Idaho	4	35	51	34	234	828
Montana	13	4	–	–	289	40
Utah	18	52	14	2	367	270
Wyoming	3	–	6	6	972	1,008
PAD District V Total	**929**	**1,504**	**466**	**560**	**12,857**	**15,167**
Alaska	–	–	2	–	448	37
Arizona	4	4	2	2	127	159
California	610	308	278	267	5,048	6,877
Hawaii	1	1	–	–	27	22
Nevada	3	12	1	11	328	370
Oregon	155	605	144	248	3,127	2,623
Washington	155	574	38	31	3,752	5,081

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 and 1995.
• Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1994 and 1995, (DOE/EIA-0340(94)/1 - (95)/1).

Table 19. Adjusted Sales for Residential Use: Distillate Fuel Oil and Kerosene, 1995
(Thousand Gallons)

Destination	Distillate Fuel Oil			Kerosene
	No. 1	No. 2	Total	
U.S. Total	**176,114**	**6,194,267**	**6,370,381**	**550,336**
PAD District I Total	**26,087**	**5,204,706**	**5,230,793**	**440,639**
Subdistrict IA Total	**15,519**	**2,038,294**	**2,053,813**	**78,901**
Connecticut	2,448	507,521	509,969	5,127
Maine	2,777	307,689	310,466	45,725
Massachusetts	5,630	811,103	816,733	5,463
New Hampshire	792	180,279	181,071	13,901
Rhode Island	–	141,080	141,080	1,123
Vermont	3,872	90,622	94,494	7,563
Subdistrict IB Total	**5,473**	**2,733,339**	**2,738,812**	**176,460**
Delaware	–	45,306	45,306	5,037
District of Columbia	–	11,575	11,575	265
Maryland	695	199,689	200,384	22,450
New Jersey	64	489,629	489,693	9,926
New York	–	1,165,204	1,165,204	52,099
Pennsylvania	4,714	821,937	826,651	86,682
Subdistrict IC Total	**5,095**	**433,073**	**438,168**	**185,278**
Florida	285	8,988	9,273	8,846
Georgia	651	6,026	6,677	5,278
North Carolina	1,416	162,343	163,759	88,104
South Carolina	1,305	26,852	28,157	19,751
Virginia	692	209,418	210,110	51,244
West Virginia	746	19,446	20,192	12,055
PAD District II Total	**105,434**	**818,125**	**923,559**	**93,893**
Illinois	4,680	29,896	34,576	3,521
Indiana	11,523	55,543	67,066	9,016
Iowa	5,355	30,121	35,476	1,032
Kansas	271	378	649	533
Kentucky	1,198	31,637	32,835	17,428
Michigan	16,626	156,710	173,336	9,772
Minnesota	26,850	113,334	140,184	2,097
Missouri	2,022	17,807	19,829	1,357
Nebraska	1,614	2,387	4,001	157
North Dakota	6,466	26,104	32,570	154
Ohio	8,769	172,905	181,674	31,432
Oklahoma	494	–	494	156
South Dakota	5,796	16,979	22,775	156
Tennessee	992	10,829	11,821	15,644
Wisconsin	12,780	153,496	166,276	1,439
PAD District III Total	**102**	**715**	**817**	**5,758**
Alabama	35	329	364	2,789
Arkansas	–	71	71	584
Louisiana	47	2	49	380
Mississippi	3	15	18	847
New Mexico	10	90	100	235
Texas	8	209	217	923
PAD District IV Total	**10,616**	**28,926**	**39,542**	**1,632**
Colorado	171	1,527	1,698	836
Idaho	4,126	17,301	21,427	627
Montana	5,764	4,831	10,595	21
Utah	159	3,355	3,514	121
Wyoming	396	1,911	2,307	27
PAD District V Total	**33,875**	**141,796**	**175,671**	**8,415**
Alaska	26,593	36,207	62,800	13
Arizona	16	163	179	85
California	507	4,926	5,433	3,397
Hawaii	49	7	56	1
Nevada	386	5,074	5,460	240
Oregon	3,081	36,510	39,591	1,072
Washington	3,242	58,909	62,151	3,607

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 1995.
• Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1995, (DOE/EIA-0340(95)/1).

Table 20. Adjusted Sales for Commercial Use: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 1995
(Thousand Gallons)

Destination	Distillate Fuel Oil							Residual Fuel Oil	Kerosene
	No. 1 Distillate	No. 2 Distillate				No. 4 Fuel	Total Distillate		
		No. 2 Fuel Oil	Low Sulfur Diesel	High Sulfur Diesel	No. 2 Total				
U.S. Total	**113,399**	**1,373,441**	**1,069,653**	**409,855**	**2,852,948**	**352,471**	**3,318,818**	**1,007,962**	**163,716**
PAD District I Total	**6,101**	**1,224,225**	**462,093**	**189,189**	**1,875,506**	**349,895**	**2,231,502**	**979,265**	**132,354**
Subdistrict IA Total	**1,521**	**411,983**	**71,706**	**23,566**	**507,255**	**75,037**	**583,812**	**219,050**	**16,254**
Connecticut	146	95,205	17,150	2,031	114,386	8,292	122,824	20,030	1,144
Maine	402	75,738	11,126	3,280	90,143	2,459	93,004	16,540	6,783
Massachusetts	5	163,486	31,215	13,406	208,106	55,605	263,716	137,470	4,615
New Hampshire	280	37,932	3,058	846	41,836	3,831	45,946	19,518	1,834
Rhode Island	689	22,166	2,815	793	25,774	3,697	30,160	22,333	1,278
Vermont	–	17,456	6,343	3,210	27,009	1,152	28,162	3,160	600
Subdistrict IB Total	**2,423**	**699,342**	**183,323**	**53,516**	**936,181**	**271,202**	**1,209,806**	**734,333**	**90,240**
Delaware	40	7,115	2,102	1,264	10,480	939	11,459	5,887	99
District of Columbia	–	20,963	4,526	606	26,096	7,682	33,777	5,827	5,402
Maryland	606	66,435	33,407	23,031	122,873	2,606	126,085	5,332	8,807
New Jersey	79	85,619	23,550	4,533	113,703	27,351	141,133	55,431	23,761
New York	782	364,296	42,426	5,551	412,273	226,472	639,527	607,151	30,006
Pennsylvania	916	154,914	77,312	18,531	250,757	6,153	257,826	54,705	22,166
Subdistrict IC Total	**2,157**	**112,900**	**207,063**	**112,108**	**432,071**	**3,656**	**437,884**	**25,881**	**25,859**
Florida	1,773	6,193	88,828	22,872	117,893	167	119,833	6,171	4,002
Georgia	101	7,443	32,232	19,364	59,040	–	59,140	515	1,477
North Carolina	7	35,586	23,034	34,320	92,940	2,509	95,456	8,294	6,178
South Carolina	125	5,453	26,081	9,107	40,641	28	40,794	1,711	1,094
Virginia	3	55,136	30,761	21,369	107,266	868	108,137	9,190	11,566
West Virginia	148	3,089	6,127	5,075	14,291	84	14,523	–	1,542
PAD District II Total	**72,245**	**119,087**	**277,032**	**124,778**	**520,896**	**498**	**593,639**	**15,886**	**25,255**
Illinois	34,156	13,551	27,012	10,171	50,734	89	84,979	2,011	3,375
Indiana	4,179	14,491	21,943	9,386	45,821	155	50,155	1,421	2,947
Iowa	1,608	3,741	11,679	1,830	17,251	–	18,859	–	106
Kansas	3,438	248	15,051	6,816	22,115	–	25,553	527	236
Kentucky	356	3,368	29,884	16,864	50,116	126	50,597	–	4,925
Michigan	11,278	19,157	30,785	13,199	63,141	–	74,420	215	4,285
Minnesota	5,830	12,908	15,174	5,232	33,314	6	39,150	4,993	979
Missouri	2,314	4,334	22,250	25,142	51,726	39	54,079	46	432
Nebraska	1,189	317	5,034	804	6,155	–	7,344	27	168
North Dakota	963	2,392	2,044	1,324	5,760	–	6,723	846	54
Ohio	794	10,522	53,388	12,933	76,842	12	77,648	203	3,727
Oklahoma	713	522	8,594	2,436	11,553	–	12,267	12	216
South Dakota	1,646	7,597	2,324	2,107	12,028	–	13,674	109	30
Tennessee	32	3,623	20,249	9,647	33,519	7	33,558	636	3,362
Wisconsin	3,748	22,315	11,620	6,887	40,821	65	44,635	4,839	412
PAD District III Total	**6,248**	**2,228**	**108,392**	**36,585**	**147,204**	**608**	**154,060**	**119**	**3,241**
Alabama	84	1,160	15,351	5,791	22,302	–	22,385	118	402
Arkansas	–	5	6,686	3,775	10,466	–	10,466	–	190
Louisiana	150	–	6,010	2,787	8,797	–	8,947	–	250
Mississippi	1	27	8,824	2,153	11,004	45	11,051	–	312
New Mexico	152	36	4,069	4,158	8,263	–	8,415	–	147
Texas	5,862	1,000	67,452	17,921	86,372	562	92,796	–	1,940
PAD District IV Total	**7,799**	**4,494**	**64,951**	**11,926**	**81,371**	**631**	**89,802**	**927**	**441**
Colorado	3,815	567	28,492	1,344	30,403	–	34,217	–	190
Idaho	977	1,557	10,786	5,761	18,104	1	19,082	195	128
Montana	1,177	1,270	2,516	–	3,786	–	4,963	147	11
Utah	765	1,099	11,638	4,483	17,220	630	18,615	572	45
Wyoming	1,065	–	11,520	338	11,858	–	12,924	13	66
PAD District V Total	**21,005**	**23,408**	**157,186**	**47,377**	**227,970**	**839**	**249,814**	**11,767**	**2,426**
Alaska	13,387	8,896	92	9,179	18,167	543	32,097	–	20
Arizona	101	14	9,613	1,204	10,831	59	10,991	–	49
California	568	1,832	85,881	9,866	97,579	–	98,146	179	1,122
Hawaii	6	786	6,576	3,283	10,645	–	10,651	2,790	5
Nevada	766	910	19,215	4,905	25,030	–	25,796	–	53
Oregon	3,259	3,148	17,203	9,259	29,610	60	32,928	3,883	594
Washington	2,919	7,823	18,605	9,681	36,109	177	39,205	4,915	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 1995.
• Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1995, (DOE/EIA-0340(95)/1).

Table 21. Adjusted Sales for Industrial Use: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 1995
(Thousand Gallons)

Destination	Distillate Fuel Oil							Residual Fuel Oil	Kerosene
	No. 1 Distillate	No. 2 Distillate				No. 4 Fuel	Total Distillate		
		No. 2 Fuel Oil	Low Sulfur Diesel	High Sulfur Diesel	No. 2 Total				
U.S. Total	**50,898**	**428,870**	**529,239**	**968,078**	**1,926,187**	**50,325**	**2,027,409**	**2,160,606**	**86,902**
PAD District I Total	**3,784**	**260,830**	**96,079**	**295,519**	**652,428**	**43,362**	**699,573**	**1,573,973**	**59,357**
Subdistrict IA Total	**66**	**66,500**	**7,623**	**4,637**	**78,760**	**16,614**	**95,439**	**500,146**	**7,148**
Connecticut	2	10,502	2,038	244	12,784	7,188	19,974	32,844	3,904
Maine	54	24,108	730	417	25,255	314	25,623	330,119	933
Massachusetts	9	19,463	2,986	2,566	25,015	3,589	28,613	65,156	1,365
New Hampshire	–	4,682	1,116	1,002	6,800	1,784	8,583	48,895	603
Rhode Island	–	4,053	250	1	4,304	2,817	7,121	16,672	284
Vermont	–	3,692	503	407	4,602	923	5,525	6,460	60
Subdistrict IB Total	**711**	**109,229**	**38,725**	**52,181**	**200,136**	**19,086**	**219,933**	**297,021**	**40,764**
Delaware	–	2,727	2,404	1,209	6,341	101	6,442	31,465	10
District of Columbia	–	45	128	–	173	–	173	7	–
Maryland	456	11,120	5,647	6,644	23,411	987	24,853	31,941	1,520
New Jersey	–	26,909	2,488	10,577	39,974	8,155	48,129	82,445	17,257
New York	–	34,544	4,074	7,157	45,774	6,057	51,832	87,863	16,640
Pennsylvania	256	33,884	23,984	26,594	84,463	3,786	88,504	63,300	5,337
Subdistrict IC Total	**3,007**	**85,101**	**49,730**	**238,701**	**373,532**	**7,662**	**384,201**	**776,806**	**11,444**
Florida	–	8,029	12,574	35,477	56,080	3,479	59,559	219,887	210
Georgia	–	6,018	6,559	26,555	39,132	76	39,208	116,400	1,053
North Carolina	–	30,596	11,379	28,451	70,425	2,627	73,053	258,785	3,429
South Carolina	8	12,606	2,897	9,066	24,570	328	24,906	94,314	2,849
Virginia	49	13,688	9,160	45,316	68,165	828	69,042	78,617	1,838
West Virginia	2,950	14,164	7,161	93,836	115,161	323	118,433	8,803	2,065
PAD District II Total	**26,184**	**147,758**	**127,544**	**351,208**	**626,509**	**5,646**	**658,340**	**221,377**	**15,373**
Illinois	1,948	17,431	8,450	31,745	57,626	6	59,580	5,031	3,991
Indiana	1,292	25,307	18,453	22,678	66,438	56	67,786	38,181	1,221
Iowa	1,593	1,057	10,093	3,571	14,722	–	16,315	4,118	205
Kansas	709	799	4,108	4,225	9,131	–	9,840	821	90
Kentucky	1,051	10,836	21,215	161,824	193,875	832	195,758	3,868	2,813
Michigan	791	12,379	12,587	14,922	39,888	905	41,584	16,904	894
Minnesota	10,281	20,031	7,187	7,028	34,246	315	44,842	14,568	106
Missouri	1,632	4,633	8,714	11,694	25,040	333	27,005	14,296	111
Nebraska	383	166	284	3,222	3,672	–	4,055	5,381	27
North Dakota	956	8,265	759	764	9,788	–	10,744	2,833	2
Ohio	226	13,839	13,474	55,349	82,661	801	83,688	57,582	4,355
Oklahoma	8	1,406	2,586	1,939	5,931	–	5,939	14,739	104
South Dakota	857	663	6,096	807	7,566	38	8,461	503	3
Tennessee	–	6,848	5,959	17,614	30,422	2,277	32,698	15,297	1,110
Wisconsin	4,458	24,097	7,580	13,826	45,503	83	50,045	27,256	341
PAD District III Total	**3,253**	**11,971**	**69,422**	**143,223**	**224,616**	**157**	**228,026**	**170,352**	**8,889**
Alabama	–	4,612	7,436	36,867	48,915	–	48,915	22,565	1,739
Arkansas	–	–	4,185	7,679	11,864	5	11,870	9,136	422
Louisiana	–	2	1,967	12,101	14,071	6	14,077	17,109	796
Mississippi	9	2,200	7,043	10,127	19,370	145	19,523	3,608	724
New Mexico	2,145	–	17,220	609	17,829	–	19,973	8,001	220
Texas	1,100	5,156	31,571	75,840	112,568	–	113,668	109,932	4,987
PAD District IV Total	**10,159**	**2,323**	**100,522**	**38,174**	**141,019**	**111**	**151,288**	**10,985**	**1,022**
Colorado	1,300	512	9,907	7,404	17,823	–	19,123	7	55
Idaho	2,332	138	10,898	17,649	28,684	–	31,016	101	4
Montana	3,561	230	22,871	2,466	25,567	–	29,128	919	3
Utah	811	585	14,240	5,298	20,124	12	20,946	9,215	50
Wyoming	2,155	858	42,605	5,357	48,821	99	51,074	743	909
PAD District V Total	**7,517**	**5,989**	**135,673**	**139,954**	**281,615**	**1,050**	**290,182**	**183,919**	**2,263**
Alaska	4,582	1,449	19,325	9,401	30,175	–	34,756	16,800	5
Arizona	348	–	15,734	47,060	62,795	15	63,157	3,040	18
California	26	1,319	50,516	2,632	54,467	1,035	55,527	65,537	1,782
Hawaii	–	87	495	1,690	2,272	–	2,272	8,034	14
Nevada	2,068	88	30,693	61,057	91,839	–	93,907	48,426	53
Oregon	96	1,926	5,840	11,500	19,266	–	19,362	14,534	103
Washington	398	1,120	13,069	6,613	20,803	–	21,200	27,547	287

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 1995.
• Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1995, (DOE/EIA-0340(95)/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, 1995
(Thousand Gallons)

Destination	Farm				Electric		Oil Company Use	
	Diesel	Other Distillate	Total Distillate	Kerosene	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil
U.S. Total	**3,093,224**	**137,541**	**3,230,765**	**19,919**	**601,185**	**3,164,462**	**556,126**	**231,022**
PAD District I Total	**317,605**	**48,445**	**366,050**	**7,629**	**259,605**	**2,674,215**	**9,552**	**110,443**
Subdistrict IA Total	**10,426**	**5,672**	**16,097**	**685**	**22,002**	**616,928**	**1,311**	**226**
Connecticut	2,567	2,474	5,041	20	2,876	88,568	359	226
Maine	2,231	1,281	3,511	220	1,057	55,941	80	–
Massachusetts	1,494	572	2,066	65	11,437	379,955	442	–
New Hampshire	512	396	908	105	1,212	91,167	–	–
Rhode Island	30	20	50	–	5,085	1,297	409	–
Vermont	3,592	929	4,522	274	335	–	21	–
Subdistrict IB Total	**70,082**	**26,395**	**96,477**	**1,707**	**113,569**	**934,627**	**3,339**	**109,528**
Delaware	2,930	27	2,957	44	3,138	74,467	282	38,831
District of Columbia	–	–	–	–	23,714	–	–	–
Maryland	22,230	2,459	24,689	728	27,197	82,388	568	688
New Jersey	4,671	1,880	6,551	7	3,919	81,105	858	2,691
New York	18,668	12,857	31,525	287	9,260	567,114	1,157	1,253
Pennsylvania	21,584	9,171	30,754	641	46,341	129,553	475	66,065
Subdistrict IC Total	**237,097**	**16,378**	**253,475**	**5,238**	**124,035**	**1,122,659**	**4,901**	**689**
Florida	62,626	127	62,753	80	53,779	1,093,117	1,065	65
Georgia	93,118	5	93,123	172	16,371	1,588	1,259	–
North Carolina	34,457	6,453	40,910	781	22,491	–	129	–
South Carolina	14,897	486	15,383	217	12,822	–	1	184
Virginia	29,275	8,226	37,501	3,246	7,276	27,955	1,827	440
West Virginia	2,725	1,081	3,806	743	11,295	–	619	–
PAD District II Total	**1,698,647**	**76,763**	**1,775,409**	**10,186**	**136,813**	**84,128**	**48,654**	**70,015**
Illinois	217,144	10,929	228,073	881	25,827	40,518	2,515	11,204
Indiana	111,819	2,307	114,126	498	16,944	3,466	2,275	31,995
Iowa	181,734	5,319	187,053	1,499	2,197	–	6	–
Kansas	170,125	1,198	171,323	222	2,664	–	5,156	–
Kentucky	39,161	1,134	40,295	1,305	9,092	–	602	5,144
Michigan	57,252	4,558	61,811	233	23,383	32,391	2,266	1,044
Minnesota	164,853	14,110	178,963	1,167	4,936	–	70	9,421
Missouri	62,158	206	62,364	237	6,332	6,613	57	–
Nebraska	187,308	4,755	192,062	249	1,604	–	796	–
North Dakota	101,742	10,181	111,923	8	3,969	–	6,388	3,659
Ohio	96,360	8,443	104,803	3,161	21,703	1,140	2,234	3,402
Oklahoma	73,683	2,408	76,091	82	890	–	26,145	–
South Dakota	79,471	2,904	82,375	67	280	–	30	–
Tennessee	66,903	512	67,414	374	9,886	–	111	195
Wisconsin	88,935	7,799	96,734	204	7,106	–	2	3,952
PAD District III Total	**578,940**	**5,185**	**584,125**	**425**	**46,031**	**449**	**430,696**	**210**
Alabama	39,449	42	39,490	9	8,231	–	7,422	–
Arkansas	97,091	2	97,092	84	10,016	–	1,062	–
Louisiana	55,409	–	55,409	17	8,632	422	259,279	–
Mississippi	83,245	–	83,245	24	1,549	27	1,935	–
New Mexico	13,432	–	13,432	24	1,199	–	18,757	–
Texas	290,314	5,142	295,457	267	16,404	–	142,242	210
PAD District IV Total	**206,021**	**2,140**	**208,162**	**175**	**5,154**	**302**	**26,643**	**12,870**
Colorado	61,488	245	61,732	84	665	–	10,007	–
Idaho	53,712	84	53,796	35	352	237	–	–
Montana	62,492	1,484	63,977	4	38	–	1,325	9,512
Utah	15,574	116	15,689	52	1,701	–	3,873	3,357
Wyoming	12,755	212	12,967	–	2,398	64	11,438	–
PAD District V Total	**292,011**	**5,008**	**297,020**	**1,504**	**153,582**	**405,369**	**40,581**	**37,484**
Alaska	108	2	111	–	35,935	–	32,713	–
Arizona	20,335	–	20,335	4	2,385	–	188	46
California	179,678	354	180,032	308	4,316	–	6,826	39
Hawaii	3,155	1,369	4,524	1	109,390	405,268	700	36,045
Nevada	2,969	120	3,089	12	504	–	52	44
Oregon	40,518	2,311	42,830	605	830	101	3	–
Washington	45,247	852	46,099	574	221	–	99	1,310

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 1995.
• Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1995, (DOE/EIA-0340(95)/1).

Table 23. Adjusted Sales for Transportation Use: Distillate Fuel Oil and Residual Fuel Oil, 1995
(Thousand Gallons)

Destination	Railroad Use	Vessel Bunkering		On-Highway Diesel	Total Transportation Use	
	Distillate Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil
U.S. Total	**3,191,023**	**1,978,105**	**6,431,238**	**25,576,433**	**30,745,561**	**6,431,238**
PAD District I Total	**517,700**	**499,385**	**1,299,435**	**8,099,324**	**9,116,408**	**1,299,435**
Subdistrict IA Total	**27,333**	**74,504**	**10,652**	**837,751**	**939,588**	**10,652**
Connecticut	6,256	3,095	–	199,252	208,603	–
Maine	6,261	18,095	4,117	129,755	154,110	4,117
Massachusetts	13,982	44,055	6,490	315,292	373,329	6,490
New Hampshire	281	306	–	63,113	63,700	–
Rhode Island	17	8,529	45	44,142	52,688	45
Vermont	536	424	–	86,197	87,157	–
Subdistrict IB Total	**180,176**	**147,079**	**744,913**	**3,007,852**	**3,335,107**	**744,913**
Delaware	427	1,247	44,207	62,912	64,586	44,207
District of Columbia	5,301	12	–	21,205	26,518	–
Maryland	26,033	19,219	31,241	323,559	368,811	31,241
New Jersey	72,148	100,016	357,584	488,531	660,695	357,584
New York	10,672	10,936	100,276	915,846	937,454	100,276
Pennsylvania	65,595	15,648	211,605	1,195,799	1,277,042	211,605
Subdistrict IC Total	**310,191**	**277,802**	**543,869**	**4,253,721**	**4,841,714**	**543,869**
Florida	86,824	154,038	375,361	1,003,655	1,244,517	375,361
Georgia	65,935	14,147	61,967	1,107,982	1,188,063	61,967
North Carolina	69,573	16,722	6,511	774,747	861,041	6,511
South Carolina	6,624	3,759	17,769	460,194	470,577	17,769
Virginia	67,787	28,866	82,261	688,044	784,697	82,261
West Virginia	13,449	60,271	–	219,099	292,818	–
PAD District II Total	**1,468,768**	**427,962**	**20,505**	**8,572,145**	**10,468,875**	**20,505**
Illinois	182,919	50,558	1,248	[E]845,546	1,079,023	1,248
Indiana	145,163	15,812	10,517	976,069	1,137,044	10,517
Iowa	60,472	6,542	–	409,958	476,972	–
Kansas	221,920	–	–	343,175	565,095	–
Kentucky	116,553	150,574	–	581,148	848,275	–
Michigan	62,233	3,778	4,209	735,953	801,964	4,209
Minnesota	114,729	5,311	–	453,926	573,966	–
Missouri	21,326	88,875	945	737,909	848,110	945
Nebraska	111,954	–	–	312,127	424,081	–
North Dakota	46,120	–	–	131,234	177,354	–
Ohio	130,977	7,771	2,519	1,100,569	1,239,317	2,519
Oklahoma	100,183	527	–	496,860	597,570	–
South Dakota	4,797	–	–	135,905	140,702	–
Tennessee	95,440	94,976	84	728,024	918,439	84
Wisconsin	53,984	3,239	981	583,742	640,964	981
PAD District III Total	**524,890**	**748,086**	**2,139,498**	**4,089,230**	**5,362,206**	**2,139,498**
Alabama	41,458	49,575	116,608	691,273	782,306	116,608
Arkansas	49,196	2,446	–	488,499	540,140	–
Louisiana	17,826	444,237	1,013,170	481,346	943,410	1,013,170
Mississippi	22,317	19,978	112,835	374,214	416,509	112,835
New Mexico	14,375	–	–	107,055	121,430	–
Texas	379,717	231,850	896,885	1,946,843	2,558,410	896,885
PAD District IV Total	**377,048**	**60**	**–**	**1,117,000**	**1,494,108**	**–**
Colorado	115,691	–	–	276,585	392,276	–
Idaho	32,537	37	–	167,819	200,392	–
Montana	87,387	4	–	158,451	245,842	–
Utah	34,874	20	–	258,135	293,029	–
Wyoming	106,559	–	–	256,010	362,569	–
PAD District V Total	**302,617**	**302,612**	**2,971,800**	**3,698,734**	**4,303,964**	**2,971,800**
Alaska	3,118	103,629	5,106	109,740	216,487	5,106
Arizona	3,241	14	–	483,186	486,442	–
California	166,057	73,101	1,964,209	2,089,687	2,328,844	1,964,209
Hawaii	–	58,171	119,788	27,080	85,251	119,788
Nevada	11,132	–	–	[E]172,332	183,464	–
Oregon	65,064	15,467	141,344	[E]353,384	433,915	141,344
Washington	54,005	52,230	741,353	463,325	569,560	741,353

[E] Estimated data. Illinois' and Nevada's annual estimates are based on eleven months of data. Since 1994 data for Oregon were not available, estimate is based on 1993 data. Oregon's 1995 data represent a Federal Highway Administration estimate.

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 1995.
• On-Highway Diesel data are Federal Highway Administation statistics of highway special fuels use.
• Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1995, (DOE/EIA-0340(95)/1).

Table 24. Adjusted Sales for Military, Off-Highway, and All Other Uses: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 1995
(Thousand Gallons)

Destination	Military				Off-Highway Distillate Fuel Oil			All Other		
	Diesel	Other Distillate	Total Distillate	Residual Fuel Oil	Construction	Other	Total	Distillate Fuel Oil	Residual Fuel Oil	Kerosene
U.S. Total	**334,029**	**34,190**	**368,219**	**55,614**	**1,472,827**	**466,306**	**1,939,133**	**–**	**7,359**	**7,576**
PAD District I Total	**61,520**	**29,434**	**90,954**	**43,676**	**440,307**	**121,858**	**562,165**	**–**	**5,002**	**3,476**
Subdistrict IA Total	**11,924**	**6,256**	**18,180**	**7,993**	**49,153**	**15,962**	**65,115**	**–**	**1,244**	**413**
Connecticut	84	524	608	514	8,271	1,039	9,310	–	741	58
Maine	98	2,414	2,512	5,013	9,688	9,994	19,683	–	358	146
Massachusetts	8,732	47	8,778	2,432	19,758	1,134	20,892	–	144	51
New Hampshire	1,190	–	1,190	–	5,609	2,526	8,134	–	–	86
Rhode Island	1,671	3,170	4,841	34	3,824	–	3,824	–	–	–
Vermont	148	101	249	–	2,004	1,268	3,272	–	–	72
Subdistrict IB Total	**7,065**	**16,352**	**23,416**	**20,898**	**140,718**	**9,692**	**150,411**	**–**	**6**	**1,800**
Delaware	17	1,089	1,106	1,933	4,112	9	4,121	–	6	151
District of Columbia	14	954	968	–	464	–	464	–	–	–
Maryland	6,183	6,279	12,463	10,466	19,653	962	20,615	–	–	157
New Jersey	159	591	750	2,941	22,774	2,876	25,650	–	–	126
New York	98	1,849	1,947	3,545	39,462	1,029	40,491	–	–	255
Pennsylvania	594	5,589	6,183	2,013	54,254	4,817	59,070	–	–	1,111
Subdistrict IC Total	**42,532**	**6,827**	**49,359**	**14,785**	**250,436**	**96,204**	**346,640**	**–**	**3,752**	**1,262**
Florida	11,092	–	11,092	2,468	108,385	4,010	112,395	–	3,118	18
Georgia	7,899	2,086	9,986	–	43,473	26,048	69,521	–	–	227
North Carolina	5,596	2,250	7,846	6,880	47,842	26,941	74,783	–	68	619
South Carolina	1,152	–	1,152	1,581	15,819	21,391	37,210	–	39	182
Virginia	16,717	2,193	18,910	3,856	27,330	13,330	40,660	–	525	56
West Virginia	76	297	373	–	7,587	4,483	12,070	–	–	160
PAD District II Total	**14,777**	**1,711**	**16,488**	**338**	**515,639**	**100,688**	**616,327**	**–**	**185**	**2,603**
Illinois	436	–	436	338	61,271	5,060	66,331	–	38	547
Indiana	472	199	671	–	22,898	9,453	32,352	–	–	182
Iowa	205	–	205	–	38,847	13,861	52,708	–	8	37
Kansas	1,093	–	1,093	–	31,560	1,043	32,604	–	–	115
Kentucky	2,189	34	2,223	–	35,185	6,232	41,417	–	–	724
Michigan	360	2	362	–	38,255	13,159	51,414	–	43	205
Minnesota	208	59	266	–	37,379	12,796	50,175	–	–	14
Missouri	2,186	594	2,780	–	37,241	10,463	47,704	–	–	95
Nebraska	407	–	407	–	17,506	1,308	18,814	–	3	101
North Dakota	1,015	250	1,265	–	6,512	1,988	8,500	–	–	6
Ohio	882	–	882	–	71,973	3,635	75,608	–	–	350
Oklahoma	1,566	–	1,566	–	20,072	2,301	22,373	–	–	65
South Dakota	820	93	913	–	7,843	1,345	9,188	–	–	3
Tennessee	1,250	–	1,250	–	59,017	8,086	67,103	–	–	74
Wisconsin	1,689	480	2,169	–	30,080	9,957	40,037	–	92	84
PAD District III Total	**149,795**	**853**	**150,648**	**1,958**	**219,719**	**120,375**	**340,094**	**–**	**–**	**837**
Alabama	5,213	–	5,213	–	24,516	32,512	57,027	–	–	135
Arkansas	392	382	774	–	11,240	19,228	30,468	–	–	349
Louisiana	24,663	–	24,663	1,958	51,425	14,308	65,733	–	–	111
Mississippi	4,695	–	4,695	–	11,339	18,868	30,207	–	–	67
New Mexico	1,164	–	1,164	–	12,550	1,586	14,135	–	–	52
Texas	113,668	471	114,139	–	108,650	33,874	142,524	–	–	122
PAD District IV Total	**2,074**	**119**	**2,193**	**–**	**103,074**	**25,940**	**129,014**	**–**	**228**	**101**
Colorado	1,387	119	1,506	–	41,998	1,015	43,013	–	4	58
Idaho	84	–	84	–	10,777	14,702	25,479	–	31	34
Montana	365	–	365	–	12,492	4,268	16,760	–	–	–
Utah	222	–	222	–	23,593	3,232	26,825	–	44	2
Wyoming	16	–	16	–	14,215	2,723	16,938	–	150	6
PAD District V Total	**105,863**	**2,073**	**107,936**	**9,641**	**194,087**	**97,444**	**291,532**	**–**	**1,944**	**560**
Alaska	3,374	573	3,947	–	12,717	15,850	28,567	–	–	–
Arizona	690	9	699	–	25,488	2,193	27,681	–	–	2
California	90,434	–	90,434	8,530	96,899	22,581	119,480	–	114	267
Hawaii	6,029	–	6,029	131	9,515	–	9,515	–	1,806	–
Nevada	811	–	811	–	8,170	1,866	10,036	–	–	11
Oregon	799	51	850	980	13,723	34,395	48,118	–	24	248
Washington	3,726	1,440	5,165	–	27,576	20,559	48,135	–	–	31

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 1995.
• Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1995, (DOE/EIA-0340(95)/1).

Appendix

Technical Notes

Appendix

Technical Notes

Note 1: EIA-821: Annual Fuel Oil and Kerosene Sales Report, 1995

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 1995 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 constructed 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:

$$\hat{V} = \Sigma_h N_h \left(\Sigma_i W_{h\,i} V_{h\,i} / \Sigma_i W_{h\,i} \right)$$

where:

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

where: $W_{h\,i}$ is inversely proportional to the probability of inclusion in the linked sample.

The degree of imputation by product and end use at the U.S. total level ranged as follows for the 1995 EIA-821 data: distillate, 1.6 percent for military use to 23.0 percent for off-highway use; residual fuel oil, 0.02 percent for oil company use to 2.5 percent for commercial use; and kerosene, 4.0 percent for commercial use to 6.8 percent for farm use.

Collection Methods

The EIA-821 form was mailed in January 1996 to all companies selected for participation in the 1995 reference year survey. The completed form was due to EIA on March 1, 1996. A second request was sent by certified mail to nonrespondents approximately 1 month after the filing deadline. Follow-up telephone calls were made to collect outstanding data and to verify reported data. Late submissions and resubmissions were processed when received.

Data Processing

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

Note 2: Reliability of the Data

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

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

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

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

Data in Tables 1 through 12 are based on survey data which are subject to sampling errors. Coefficients of variation, which are estimates of sampling errors, are presented for the retail target variables in the following table for the 1992 survey. The coefficients of variation (CV) were estimated by:

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

where:

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

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

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

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

Response rates also offer some indication of the reliability and comprehensiveness of survey results. For the 1995 EIA-821 survey, the overall response rate (the number of submissions received, divided by the number of submissions solicited and expected, times 100) was 90.4 percent.

Coefficients of Variation for Sales of Fuel Oil, 1995

Geographic Area	Residential Distillate Fuel Oil	Non-Residential Retail Distillate Fuel Oil	Retail Residual Fuel Oil
U.S. Average	**1.6**	**0.8**	**0.1**
PAD District I Average	**1.9**	**1.2**	**0.1**
Subdistrict IA Average	**3.0**	**1.8**	**0.1**
Connecticut	4.2	3.2	0.0
Maine	9.8	3.9	0.0
Massachusetts	6.0	3.6	0.1
New Hampshire	5.4	3.5	0.0
Rhode Island	4.7	5.1	0.0
Vermont	3.2	3.6	0.0
Subdistrict IB Average	**2.8**	**1.9**	**0.0**
Delaware	7.7	6.7	0.0
District of Columbia	1.8	0.1	0.0
Maryland	3.4	3.6	0.0
New Jersey	3.4	3.0	0.0
New York	5.4	5.0	0.0
Pennsylvania	4.8	2.5	0.0
Subdistrict IC Average	**3.5**	**2.0**	**0.1**
Florida	7.8	3.0	0.0
Georgia	11.9	5.4	0.0
North Carolina	6.0	5.0	0.2
South Carolina	3.9	7.5	0.0
Virginia	5.4	3.4	0.0
West Virginia	7.8	2.8	0.0
PAD District II Average	**2.5**	**1.1**	**0.1**
Illinois	5.8	5.1	0.0
Indiana	6.5	2.7	0.0
Iowa	7.8	3.5	0.0
Kansas	14.4	5.1	5.6
Kentucky	5.1	3.1	0.0
Michigan	5.8	4.3	0.0
Minnesota	6.6	6.9	0.1
Missouri	14.1	4.0	0.0
Nebraska	14.6	3.4	0.0
North Dakota	8.9	3.7	0.8
Ohio	7.2	2.2	0.0
Oklahoma	89.7	4.1	0.0
South Dakota	6.8	4.2	0.0
Tennessee	17.3	2.7	0.0
Wisconsin	6.4	3.6	0.0
PAD District III Average	**16.6**	**3.1**	**0.1**
Alabama	0.1	4.0	0.1
Arkansas	1.5	4.2	0.0
Louisiana	39.7	7.3	0.0
Mississippi	4.5	4.6	0.0
New Mexico	1.9	4.6	0.0
Texas	62.2	5.3	0.0
PAD District IV Average	**6.3**	**1.5**	**0.1**
Colorado	58.1	3.1	0.0
Idaho	7.4	2.8	0.0
Montana	14.2	2.9	0.1
Utah	16.9	3.9	0.0
Wyoming	7.0	3.2	0.0
PAD District V Average	**1.9**	**2.1**	**0.1**
Alaska	2.3	1.7	0.0
Arizona	0.0	2.6	0.0
California	4.3	4.3	0.0
Hawaii	0.0	2.3	0.0
Nevada	1.0	3.3	0.0
Oregon	5.4	3.7	0.1
Washington	3.3	4.0	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 1995.

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 1991 through 1995 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 1991 through 1995 special fuels, more than 98 percent is diesel.

1991 through 1995 Adjustments

Kerosene volumes for 1994 and 1995 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 1995 survey resulted in 790,376 thousand gallons of kerosene at the national level. The products supplied volume at the national level for kerosene was 828,450 thousand gallons. Hence, the adjustment factor at the national level for 1995 was 1.05.

For 1991 through 1992, kerosene volumes are adjusted at the national level in Tables 1 through 12 and at the PAD district level in Tables 13 through 24.

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 1995 are as follows:

Distillate Fuel Oil

- PAD District I: .92
- PAD District II: 1.03
- PAD District III: .79
- PAD District IV: 1.10
- PAD District V: .70

For Tables 13 through 24, total sales at the PAD district level equal the products supplied volumes as reported in the PSA, 1991 through 1995. For example, the 1995 survey yielded a volume for distillate residential use in PAD District II of 897,664 thousand gallons. The total distillate volume for PAD District II was 6,346,087 from the survey, after subtracting the volume coming from alternate sources. The product supplied total distillate volume for PAD District II was 6,529,146 after removing alternate source volume. Hence, the adjusted 1995 estimate of distillate for residential use in PAD District II was (6,529,146/6,346,087) x 897,664 = 923,558.

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 1995 survey yielded 12,206,854 thousand gallons of residual fuel oil, while the products supplied volume at the national level was 13,058,262 thousand gallons. Thus, the adjustment factor at the national level for 1995 was 1.09, 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 nonmanufacturing 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

burners. 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 l00 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 ≤ .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 l00 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 l00 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.

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 endpoint 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. **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.

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.