

Fuel Oil and Kerosene Sales 1994

September 1995

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.

DISTRIBUTION OF THIS DOCUMENT IS UNLIMITED

MASTER

kg

Contacts

The *Fuel Oil and Kerosene Sales 1994* 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 on Diskette

Annual petroleum marketing data are available on a diskette that contains statistics from the *Fuel Oil and Kerosene Sales 1994* 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.

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.

How to Order

Fuel oil and kerosene sales data are available on diskette 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

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

DISCLAIMER

This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency thereof, nor any of their employees, make any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.

DISCLAIMER

Portions of this document may be illegible in electronic image products. Images are produced from the best available original document.

Contents

	Page
Introduction	1
Sales of Fuel Oil and Kerosene in 1994	3
Reduced Diesel Fuel Tax Evasion Inflates On-Highway Volumes	9
Adjusted Sales of Fuel Oil and Kerosene in 1994	27
Appendix: Technical Notes	45

Tables

Sales of Fuel Oil and Kerosene in 1994

1. Sales of Distillate Fuel Oil by End Use in the United States: 1990-1994	10
2. Sales of Residual Fuel Oil by End Use in the United States: 1990-1994	11
3. Sales of Kerosene by End Use in the United States: 1990-1994	11
4. Sales of Distillate Fuel Oil by End Use, 1993 and 1994.	12
5. Sales of Residual Fuel Oil by End Use, 1993 and 1994	16
6. Sales of Kerosene by End Use, 1993 and 1994	18
7. Sales for Residential Use: Distillate Fuel Oil and Kerosene, 1994	20
8. Sales for Commercial Use: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 1994	21
9. Sales for Industrial Use: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 1994	22
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, 1994	23
11. Sales for Transportation Use: Distillate Fuel Oil and Residual Fuel Oil, 1994	24
12. Sales for Military, Off-Highway, and All Other Uses: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 1994	25

Adjusted Sales of Fuel Oil and Kerosene in 1994

13. Adjusted Sales of Distillate Fuel Oil by End Use in the United States: 1990-1994	28
14. Adjusted Sales of Residual Fuel Oil by End Use in the United States: 1990-1994.	29
15. Adjusted Sales of Kerosene by End Use in the United States: 1990-1994	29
16. Adjusted Sales of Distillate Fuel Oil by End Use, 1993 and 1994.	30
17. Adjusted Sales of Residual Fuel Oil by End Use, 1993 and 1994	34
18. Adjusted Sales of Kerosene by End Use, 1993 and 1994.	36
19. Adjusted Sales for Residential Use: Distillate Fuel Oil and Kerosene, 1994	38
20. Adjusted Sales for Commercial Use: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 1994	39

	Page
21. Adjusted Sales for Industrial Use: Distillate Fuel Oil, Residual Fuel Oil and Kerosene, 1994	40
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, 1994	41
23. Adjusted Sales for Transportation Use: Distillate Fuel Oil and Residual Fuel Oil, 1994	42
24. Adjusted Sales for Military, Off-Highway, and All Other Uses: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 1994	43

Introduction

This publication contains the 1994 survey results of the "Annual Fuel Oil and Kerosene Sales Report" (Form EIA-821). This is the sixth 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 1994 edition marks the 11th 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 adjustment procedure for residual fuel oil was changed in 1990. In previous years, estimates of vessel bunkering volumes were obtained from the Bureau of the Census report, *United States Foreign Trade, Bunker Fuels*. This Census report was discontinued after 1989. In order to minimize disruption to the residual fuel oil adjusted sales data series, the Census data were removed from prior years' estimates and the adjustment to equal products supplied is now performed at the national level.

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

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

Highlights

Sales of Fuel Oil and Kerosene in 1994

Distillate and residual fuel oil sales continued to move in opposite directions during 1994. Distillate sales rose for the third year in a row, due to a growing economy. Residual fuel oil sales, on the other hand, declined for the sixth year in a row, due to competitive natural gas prices, and a warmer heating season than in 1993. Distillate fuel oil sales increased 4.4 percent while residual fuel oil sales declined 1.6 percent. Kerosene sales decreased 1.4 percent in 1994.

A total of 66.0 billion gallons of fuel oil and kerosene were sold in the United States in 1994, a 3.0-percent increase from last year's 64.1 billion. Distillate fuel oil's share of these products increased to 76.4 percent, while residual fuel oil's market share dropped to 22.5 percent of total fuel oil and kerosene sold. Kerosene dropped slightly to account for only 1.1 percent of total fuel oil and kerosene sales. In 1993, these products' shares of total fuel oil and kerosene sales were 75.3, 23.5, and 1.2 percent, respectively.

Distillate Fuel Oil

The transportation sector, which consists of on-highway, vessel bunkering and railroad uses, continued to dominate distillate sales with 59.0 percent of total

distillate sales. Sales in this sector were up 4.4 percent over 1993 due to increased production and deliveries of consumer products to the marketplace. On-highway sales, which accounted for 82.1 percent of distillate sales in the transportation sector, were up an estimated 4.1 percent based on economic growth. Note that the published number shows an increase of 7.1 percent. (See explanation on page 9 describing why on-highway diesel volumes increased in 1994.) Sales of distillate to railroads increased 4.7 percent as a record amount of coal was delivered to electric utilities in 1994. (*Electric Power Annual*, Vol. 1, July 1995) Vessel bunkering distillate sales were also up by 1.6 percent in 1994.

The extremely cold weather in January 1994 -- 21.4 percent more heating degree days than in January 1993 (*Monthly Energy Review*, February 1994) -- created a high demand for residential heating oil in early 1994, but was more than offset by warm temperatures and low demand in late 1994. Hence, sales of residential heating oil from 1993 to 1994 remained relatively unchanged. Overall, the weather during 1994 was warmer than in 1993, 4.1 percent fewer heating degree days (*Short-Term Energy Outlook*, August 1995).

Table HL1. Volume Distribution of Distillate and Residual Fuel Oils, 1993 and 1994

End Use	Distillate 1994		Distillate 1993		Residual 1994		Residual 1993	
	Volume (million gallons)	Percent Share	Volume (million gallons)	Percent Share	Volume (million gallons)	Percent Share	Volume (million gallons)	Percent Share
Residential	7,234	14.4	7,287	15.1	--	--	--	--
Commercial.....	3,775	7.5	3,690	7.6	1,061	7.2	1,026	6.8
Industrial.....	2,269	4.5	2,130	4.4	2,337	15.8	2,378	15.8
Oil Company.....	675	1.3	709	1.5	243	1.6	267	1.8
Farm	3,270	6.5	3,411	7.1	--	--	--	--
Electric	664	1.3	551	1.1	5,729	38.6	6,035	40.1
Railroad.....	3,141	6.2	3,000	6.2	--	--	--	--
Vessel Bunkering.....	2,189	4.3	2,155	4.5	5,386	36.3	5,282	35.1
On-Highway	24,443	48.5	22,759	47.1	--	--	--	--
Military.....	610	1.2	491	1.0	62	0.5	73	0.5
Off-Highway	2,153	4.3	2,104	4.4	--	--	--	--
Other	1	0.0	3	0.0	6	0.0	4	0.0
Total	58,424	100.0	48,290	100.0	14,825	100.0	15,064	100.0

Sources: Energy Information Administration, Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," 1993 and 1994.

Sales of distillate fuel oil to electric utilities increased significantly (20.5 percent) in 1994 due to the harsh weather conditions in January 1994, which forced many utilities to use their combustion or "peaking" turbines to generate additional electricity. Electric utilities used 33.0 percent more combustion turbine generators in 1994 (*Monthly Energy Review*, July 1995). Combustion turbines primarily use distillate fuel oil for peak-use generation.

Some of the increased demand was also due to stock builds at electric utility plants in 1994; light oil stocks at electric utility plants increased 6.2 percent in 1994 (*Monthly Energy Review*, July 1995). Unlike the residential heating oil market, warmer weather in the latter part of the heating season did not offset the bitter cold experienced early on for electric utility plants. Historically, there is little demand for distillate fuel oil in warm or normal weather conditions. Hence, the cold weather created a large demand for distillate fuel oil that normally does not exist.

Sales to commercial and industrial customers increased 2.3 and 6.5 percent, respectively. A strong economy, evidenced by an increase in industrial production and capacity utilization of 6.0 percent over 1993, contributed to the increase (*Economic Indicators*, March 1995). Additionally, low sulfur diesel sales more than doubled in the commercial and industrial end-use sectors due to the first full year of reporting of this Clean Air Act required fuel.

Off-highway diesel sales increased for the third straight year (up 2.3 percent) as new private construction increased 10.6 percent and capital outlay for highway construction was up 8.5 percent. (*Economic Indicators*, March 1995 and U.S. Department of Transportation, Office of Highway Management, *Highway Funding Bulletin*, HF-10B).

Oil company use was down 4.8 percent in 1994 due to a continued decrease in drilling activities in the United States. The number of oil rigs in operation declined by 10.2 percent in 1994, and the total footage drilled went down 11.3 percent as well (*Monthly Energy Review*, July 1995).

Residual Fuel Oil

Total U.S. demand for residual fuel oil continued to decline in 1994, dropping 1.6 percent. This decrease was the smallest decrease in 5 years due to the re-emergence of major vessel bunkering business in California and from increased residual fuel oil sales in the commercial sector. Vessel bunkering sales were up 2.0 percent due to the 21.1-percent increase in California.

This increase occurred because California reinstated its tax exemption for vessel bunkering in 1993. Vessel bunkering sales were actually down 3.7 percent in the rest of the Nation.

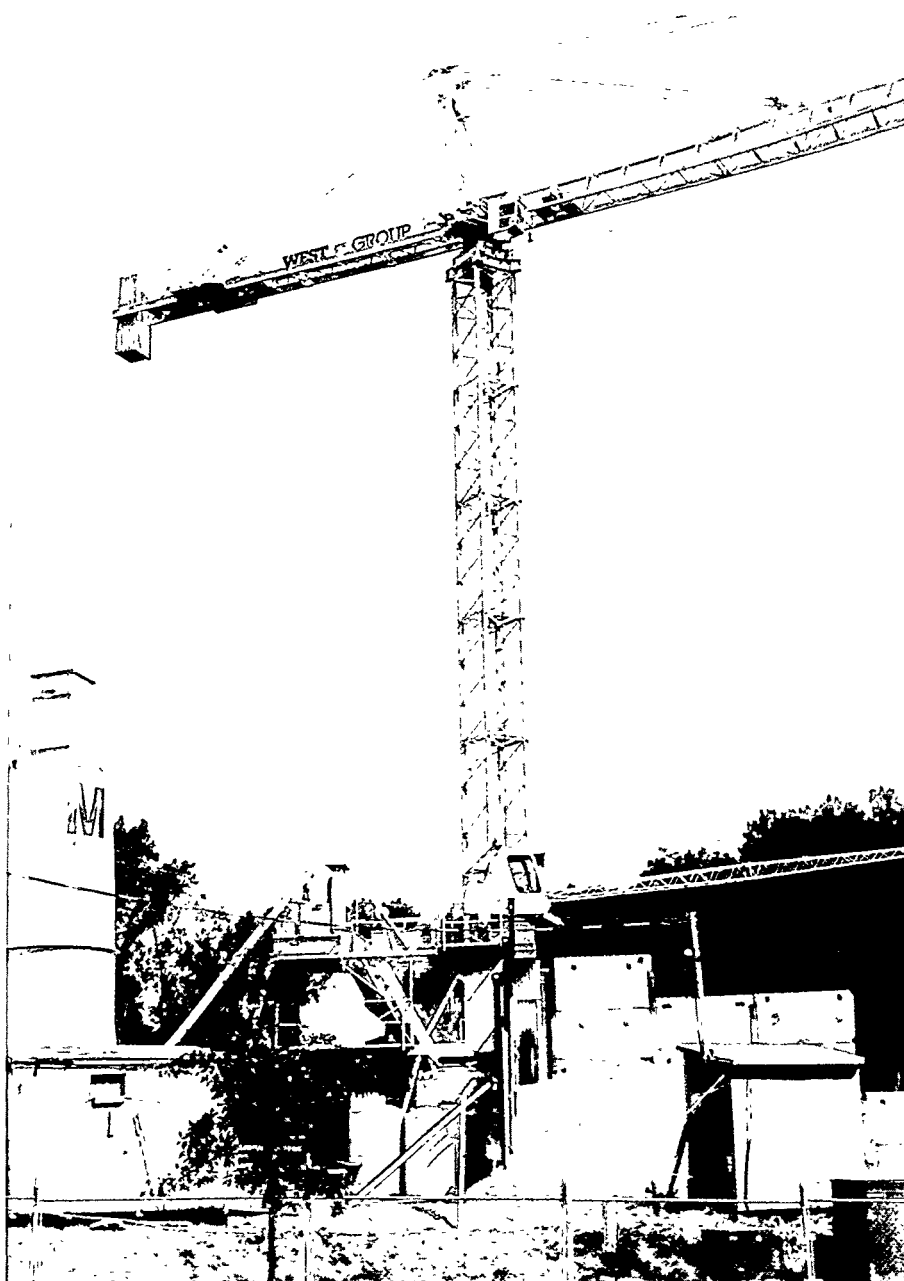
Sales to electric utilities decreased by 5.1 percent in 1994. Increases in nuclear power generation, an abundance of coal and natural gas, and milder weather in the second half of 1994 had negative effects on residual fuel oil sales (*Electric Power Annual*, July 1995 and *Short-Term Energy Outlook*, August 1995). While the price of residual fuel oil was more competitive and even substantially cheaper than natural gas in 1993, the price of natural gas to electric utilities was generally lower than the price of residual fuel oil in 1994 (*Monthly Energy Review*, August 1995). If it were not for the tremendous demand for residual fuel oil in New England and the Mid-Atlantic in early 1994, the amount of residual fuel oil sold to electric utilities would have fallen even more dramatically.

Industrial use of residual fuel oil was down 1.7 percent in 1994. A drop in natural gas prices in the latter half of 1994 allowed fuel switchers to take advantage of lower prices. On the other hand, demand for commercial residual fuel oil was up slightly due to a cold January 1994. Oil company use of residual fuel oil also declined by 23.8 million gallons, or 8.9 percent, due to less production of residual fuel oil but also due to less processing of crude oil in general. The number and capacity of U.S. refineries continued to decline in 1994 (*Annual Energy Review*, July 1995). Lastly, the military's use of residual fuel oil dropped 14.6 percent as U.S. bases closed and force reduction policies continued.

Kerosene

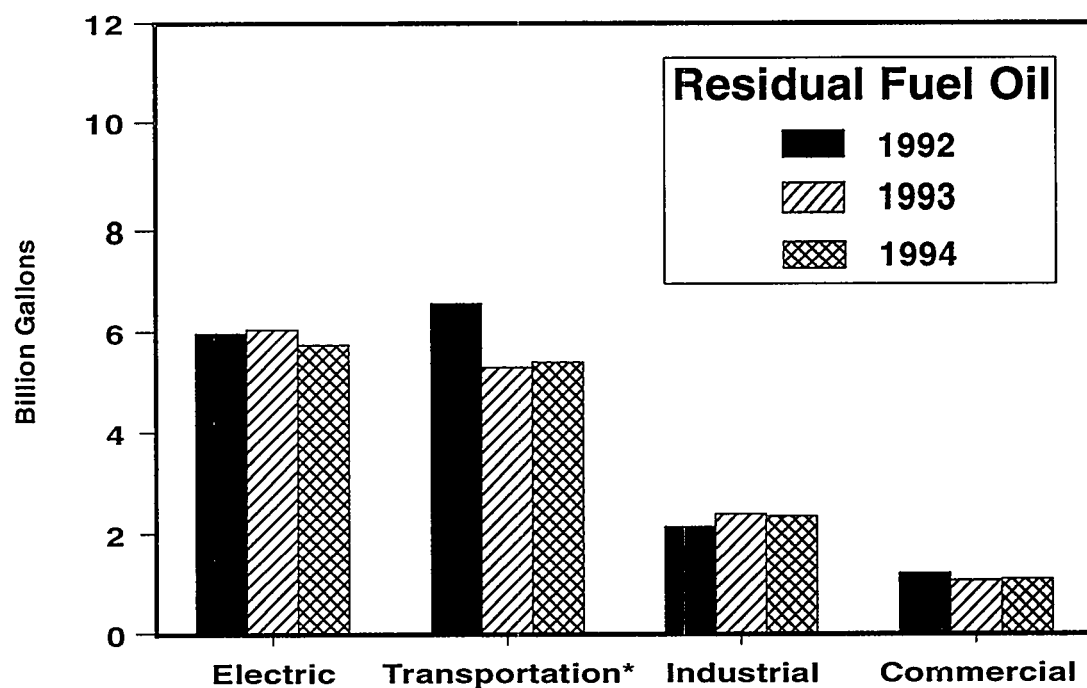
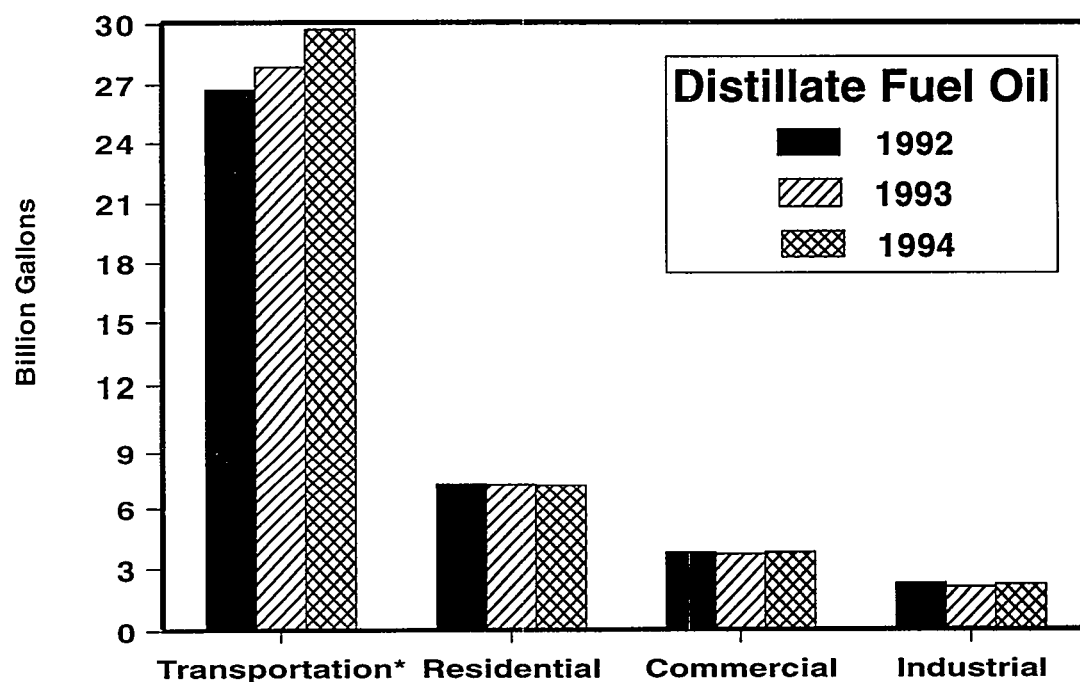
Total U.S. kerosene sales declined 1.4 percent, although sales of kerosene were the second largest amount in the past 5 years. The 14.1-percent decrease of residential sales in 1994, the largest sector of the market, offset the major increases in commercial and industrial end-use sectors. Commercial sales were up 38.6 percent, as more trucks used kerosene to blend into diesel during the cold weather of early 1994.

Industrial use was up 48.9 percent because of unusual demand for kerosene at New England and Mid-Atlantic electric utility plants in January 1994 to run peak generators. For example, kerosene for industrial use was up 126.4 percent in Connecticut, 469.1 percent in Delaware, 189.2 percent in Maryland, 344.8 percent in New Jersey, and 152.1 percent in New York. Farm use was the only kerosene end-use sector that remained constant between 1993 and 1994.



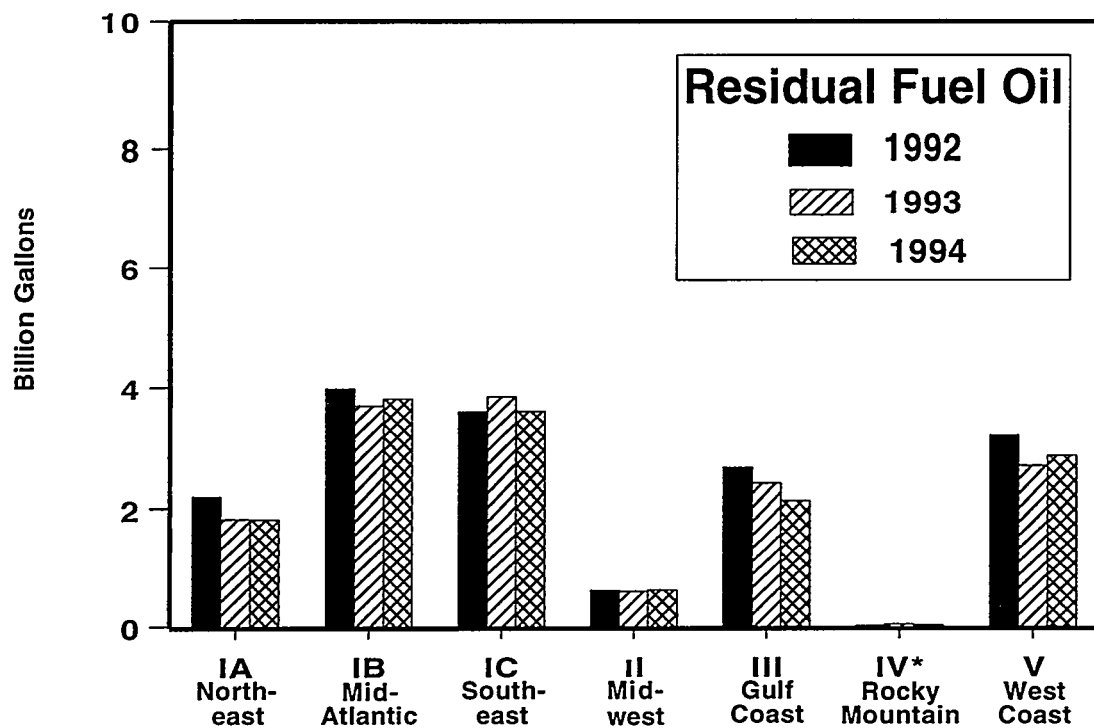
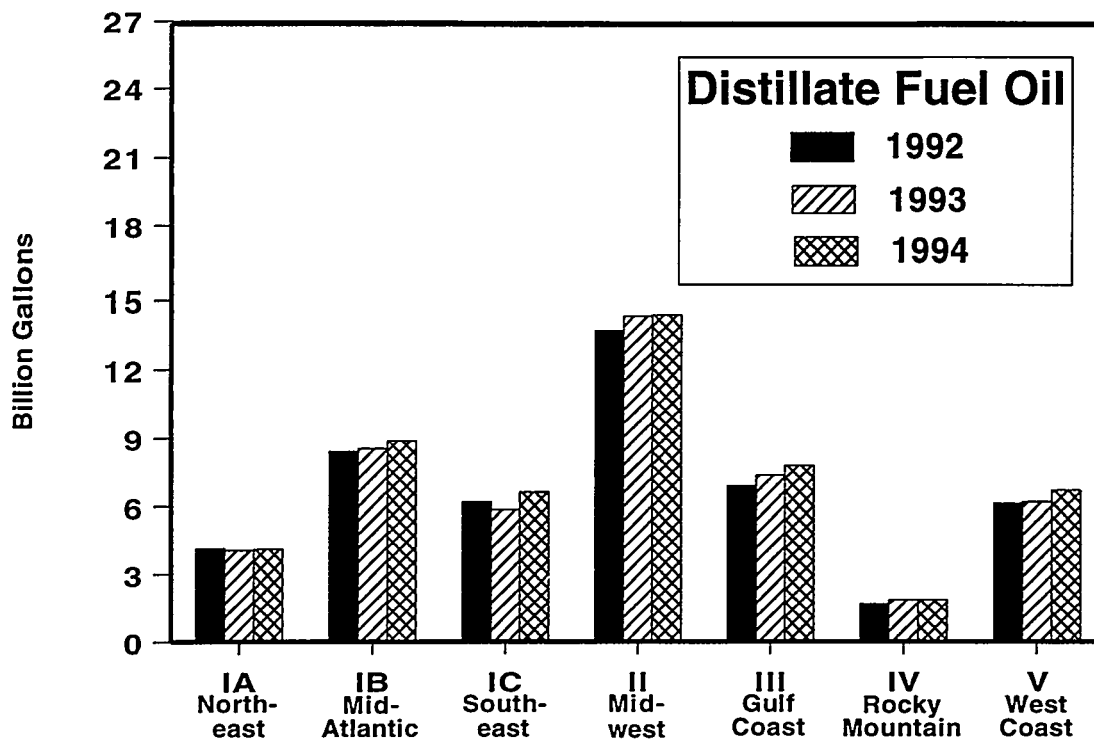
Distillate sales for construction and road building are classified as off-highway use.

Figure HL1. U.S. Sales of Distillate and Residual Fuel Oils by End Use, 1992-1994



*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," 1993 and 1994.

Figure HL2. Volume Distribution of Distillate and Residual Fuel Oils by PAD District, 1992-1994

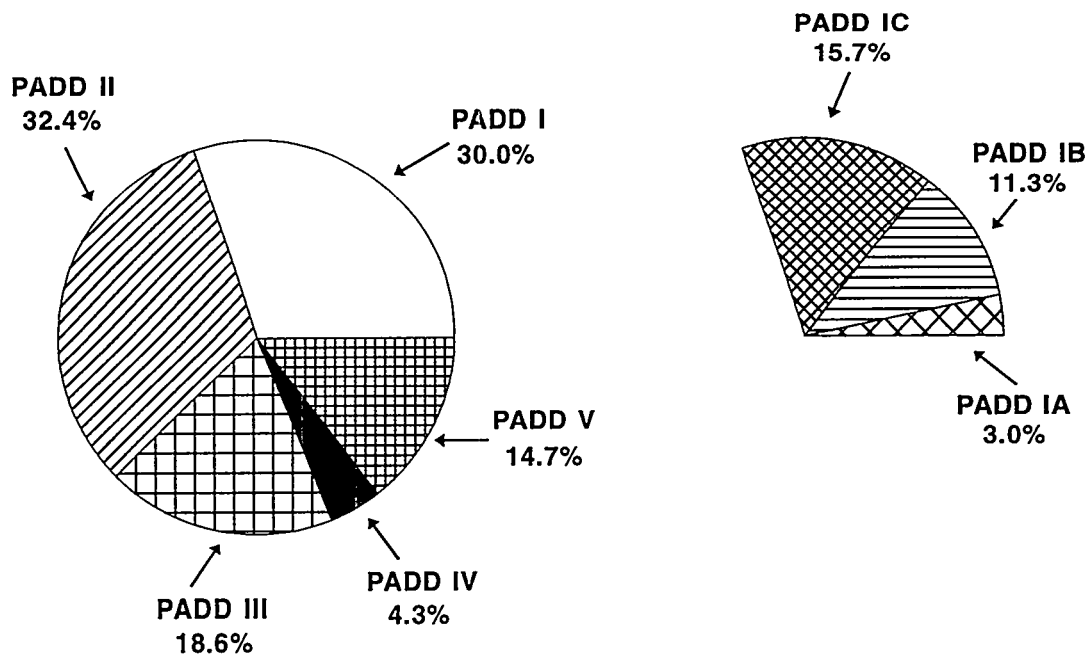


*Residual fuel oil sales in PAD District IV are too small to appear in this graph.

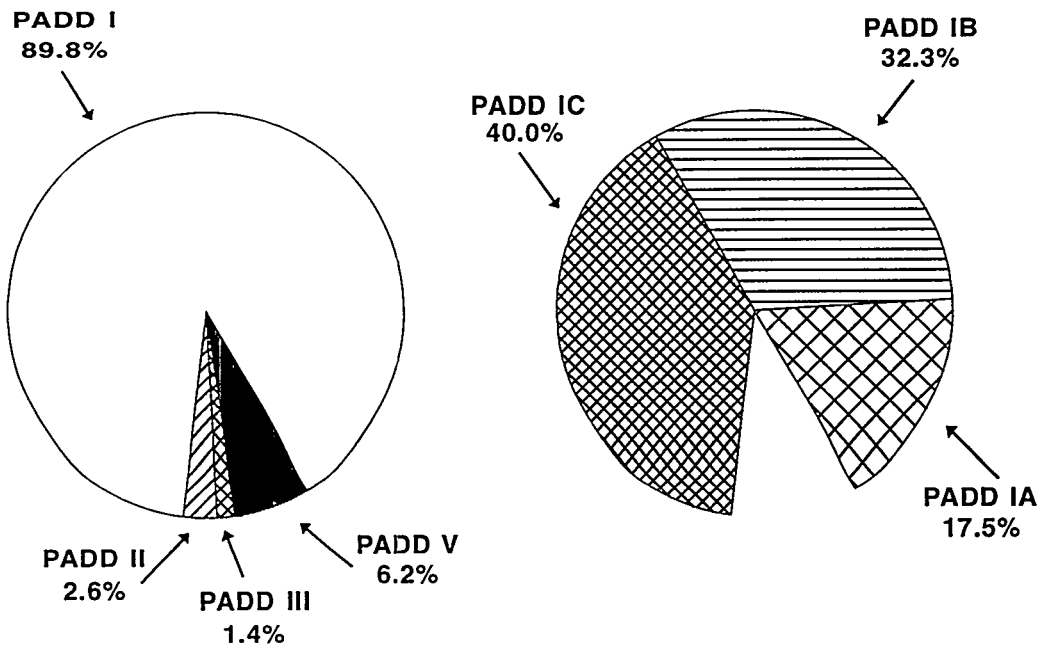
Sources: Energy Information Administration, Form EIA-821, "Fuel Oil and Kerosene Sales Report," 1993 and 1994.

Figure HL3. Distillate and Residual Fuel Oil Sales for Selected End-Use Categories by PAD District, 1994

Distillate: Transportation



Residual: Electric Utility



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

Reduced Diesel Fuel Tax Evasion Inflates On-Highway Volumes

Changes in Federal diesel fuel tax laws instituted on January 1, 1994, significantly reduced tax evasion opportunities and led to an increase in reporting of on-highway diesel use to Federal and State agencies in 1994. Due to the limited sampling of truck stops on the EIA-821, "Annual Fuel Oil and Kerosene Sales Report," the on-highway diesel volumes published in *Fuel Oil and Kerosene Sales 1994* are calculated from Federal Highway Administration (FHWA) data. These volumes are provided to FHWA by the States and are based on the collection of State motor fuels taxes. Part of the increase of on-highway diesel sales between 1993 and 1994 can be attributed to reduced diesel fuel tax fraud. On-highway volumes, 24.4 billion gallons in 1994, increased 1.6 billion gallons or 7.1 percent from 1993.

Studies at the FHWA show that changes in on-highway use are usually closely correlated to changes in Gross Domestic Product (GDP), which rose 4.1 percent in 1994. The increase in on-highway diesel sales is,

therefore, attributable to both an increase in demand as well as an increase in diesel fuel tax compliance.

One of the Federal diesel fuel tax changes was moving the point of diesel fuel taxation upstream from the last wholesale sale to the terminal rack. With fewer taxpayers to monitor, this change has made enforcement easier. The other major change to enhance enforcement efforts was the requirement that diesel fuel for tax exempt use be dyed before it leaves a terminal. The marking of untaxed fuel with dye is intended to alert any potential user downstream that the fuel is not appropriate for use in a motor vehicle on-highway. Since fines for misfueling are levied on the truck driver, truckers are reluctant to take on illegal fuel. Spot checks of several thousand diesel trucks on-highway in early January 1995 confirmed compliance with the new requirements. According to Internal Revenue Service enforcement officials, only about 1 percent of all checked vehicles were misfueled with dyed, untaxed diesel.



Truck powered by low sulfur diesel fuel.

Table 1. Sales of Distillate Fuel Oil by End Use in the United States: 1990-1994
(Thousand Gallons)

End Use	Distillate Fuel Oil				
	1990	1991	1992	1993	1994
U.S. Total	47,826,587	45,210,737	47,261,552	48,290,076	50,423,596
Residential	7,277,365	6,775,589	7,291,444	7,287,196	7,232,733
Commercial	3,986,624	3,767,833	3,771,021	3,689,509	3,774,929
Industrial	2,593,312	2,309,184	2,312,146	2,130,358	2,269,007
Oil Company	751,450	738,618	664,408	709,404	675,228
Farm	3,403,400	3,158,477	3,499,518	3,410,827	3,270,227
Electric Utility	763,709	594,821	540,683	550,752	663,814
Railroad	3,104,630	2,879,109	3,172,724	3,000,104	3,141,324
Vessel Bunkering	2,064,842	2,046,064	2,218,592	2,154,757	2,189,346
On-Highway Diesel	21,360,477	20,485,364	21,374,872	22,758,842	24,442,609
Military	709,232	811,705	652,507	491,320	610,474
Off-Highway Diesel	1,808,646	1,641,560	1,757,788	2,104,299	2,153,153
All Other	2,898	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 1990-1994.

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



Sales to school buses and apartment buildings are considered commercial use.

Table 2. Sales of Residual Fuel Oil by End Use in the United States: 1990-1994
(Thousand Gallons)

End Use	Residual Fuel Oil				
	1990	1991	1992	1993	1994
U.S. Total	19,233,428	17,631,823	16,199,042	15,064,305	14,825,378
Commercial	1,522,125	1,423,948	1,176,049	1,025,895	1,061,450
Industrial	2,255,759	1,934,793	2,126,857	2,378,191	2,337,188
Oil Company	318,298	300,939	271,070	266,518	242,754
Electric Utility	8,679,851	7,071,254	5,961,441	6,035,413	5,729,485
Vessel Bunkering	6,326,322	6,773,174	6,563,220	5,281,869	5,386,407
Military	101,921	119,976	91,791	72,540	61,946
All Other	29,152	7,738	8,613	3,878	6,111

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 1990-1994.

Table 3. Sales of Kerosene by End Use in the United States: 1990-1994
(Thousand Gallons)

End Use	Kerosene				
	1990	1991	1992	1993	1994
U.S. Total	652,008	709,716	636,426	760,788	750,330
Residential	473,409	535,864	481,511	560,103	480,916
Commercial	87,672	89,542	82,398	103,996	144,142
Industrial	60,432	52,438	46,099	58,190	86,629
Farm	16,691	17,053	20,036	27,695	27,686
All Other	13,804	14,819	6,382	10,805	10,957

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, 1990-1994, (DOE/EIA-0340(90)/1 - (94)/1).

Table 4. Sales of Distillate Fuel Oil by End Use, 1993 and 1994

(Thousand Gallons)

Destination	Residential		Commercial		Industrial	
	1993	1994	1993	1994	1993	1994
U.S. Total	7,287,196	7,232,733	3,689,509	3,774,929	2,130,358	2,269,007
PAD District I Total	5,942,764	5,979,205	2,511,603	2,568,196	748,208	733,386
Subdistrict IA Total	2,302,502	2,317,953	635,477	642,941	121,350	122,129
Connecticut	642,109	613,506	119,192	120,552	23,011	27,109
Maine	266,009	275,510	105,155	111,938	26,967	34,414
Massachusetts	954,305	965,083	294,489	270,920	44,663	32,740
New Hampshire	177,344	186,245	52,216	62,453	8,759	10,037
Rhode Island	152,482	171,739	29,733	39,492	9,964	11,110
Vermont	110,253	105,871	34,691	37,586	7,987	6,719
Subdistrict IB Total	3,146,775	3,183,440	1,420,308	1,500,060	315,474	287,958
Delaware	52,774	57,602	15,458	12,636	8,483	8,085
District of Columbia	7,640	6,514	37,193	44,323	130	77
Maryland	243,159	243,401	124,999	149,545	28,397	32,054
New Jersey	536,266	602,566	260,573	243,322	53,603	56,680
New York	1,334,617	1,306,694	703,095	712,524	67,824	52,431
Pennsylvania	972,318	966,662	278,990	337,709	157,037	138,631
Subdistrict IC Total	493,488	477,812	455,819	425,195	311,383	323,298
Florida	14,851	12,160	143,038	106,951	43,640	45,424
Georgia	10,949	5,503	52,701	50,550	34,149	32,175
North Carolina	172,043	159,069	87,694	95,644	57,278	61,449
South Carolina	38,717	32,620	39,475	31,802	25,673	19,411
Virginia	230,524	239,937	112,608	120,308	42,270	44,072
West Virginia	26,404	28,523	20,303	19,939	108,373	120,767
PAD District II Total	1,030,993	945,245	587,680	561,960	579,829	653,128
Illinois	32,416	32,272	87,193	88,519	51,343	52,811
Indiana	92,299	73,051	70,824	61,393	77,003	91,305
Iowa	35,904	38,903	15,582	15,627	12,806	11,754
Kansas	1,193	1,085	28,191	19,930	11,937	8,499
Kentucky	34,069	32,634	28,965	39,505	136,666	168,375
Michigan	181,463	161,172	64,403	57,431	32,892	36,926
Minnesota	140,382	135,283	28,557	36,107	41,185	48,074
Missouri	18,106	14,123	50,190	47,739	20,554	21,228
Nebraska	7,332	6,437	13,368	14,475	5,734	4,040
North Dakota	32,869	29,293	6,262	7,687	7,606	4,878
Ohio	195,624	195,656	60,521	60,000	105,321	109,954
Oklahoma	10	5	14,180	10,509	10,656	13,048
South Dakota	25,888	21,432	10,832	10,619	9,401	15,430
Tennessee	8,955	12,085	40,962	40,230	25,446	31,421
Wisconsin	224,483	191,812	67,649	52,189	31,280	35,385
PAD District III Total	1,004	1,603	190,035	213,323	292,572	313,874
Alabama	528	501	33,410	41,229	71,752	91,402
Arkansas	24	37	15,518	16,766	11,314	10,663
Louisiana	3	483	31,489	33,330	40,764	63,454
Mississippi	107	42	11,980	16,644	22,840	25,400
New Mexico	223	305	12,355	8,155	13,317	10,391
Texas	121	235	85,284	97,197	132,583	112,564
PAD District IV Total	42,772	34,039	71,657	94,961	146,713	161,936
Colorado	1,264	944	29,060	45,119	28,053	22,181
Idaho	23,682	19,392	12,966	16,331	11,283	23,256
Montana	10,215	6,997	7,429	6,999	35,087	33,382
Utah	5,668	4,172	14,013	17,906	29,902	21,876
Wyoming	1,943	2,533	8,190	8,607	42,388	61,241
PAD District V Total	269,663	272,641	328,535	336,489	363,036	406,682
Alaska	82,579	85,194	78,305	80,400	21,976	21,233
Arizona	345	244	10,827	17,172	67,056	72,424
California	10,003	10,061	102,882	102,197	60,858	77,997
Hawaii	84	77	18,063	17,084	4,351	3,402
Nevada	11,583	10,244	39,343	35,838	140,479	140,084
Oregon	66,980	63,388	35,455	34,820	34,088	35,129
Washington	98,089	103,434	43,660	48,979	34,228	56,413

See footnotes at end of table.

Table 4. Sales of Distillate Fuel Oil by End Use, 1993 and 1994 (Continued)
(Thousand Gallons)

Destination	Oil Company		Farm		Electric Utility	
	1993	1994	1993	1994	1993	1994
U.S. Total	709,404	675,228	3,410,827	3,270,227	550,752	663,814
PAD District I Total	14,451	12,496	428,190	357,546	258,181	352,870
Subdistrict IA Total	1,445	1,506	25,457	20,690	18,941	25,210
Connecticut	505	418	6,177	4,714	4,782	2,671
Maine	58	86	5,387	6,092	373	764
Massachusetts	536	675	3,731	2,797	10,901	18,092
New Hampshire	44	-	1,605	1,633	535	1,140
Rhode Island	268	309	685	612	1,916	1,766
Vermont	34	18	7,872	4,842	434	777
Subdistrict IB Total	7,348	5,403	150,326	120,722	107,045	187,996
Delaware	322	311	4,301	4,551	3,670	5,919
District of Columbia	-	-	-	-	19,532	31,825
Maryland	724	738	23,439	20,223	22,694	32,890
New Jersey	2,454	2,266	7,470	9,639	11,545	17,797
New York	2,076	908	66,774	50,666	15,858	26,516
Pennsylvania	1,772	1,180	48,343	35,643	33,747	73,048
Subdistrict IC Total	5,658	5,588	252,407	216,134	132,195	139,664
Florida	1,343	1,163	69,052	58,993	71,665	57,387
Georgia	565	921	63,832	59,346	9,575	9,762
North Carolina	123	152	46,748	40,942	13,705	22,674
South Carolina	77	1	18,580	14,579	6,902	12,447
Virginia	1,684	1,429	49,662	37,382	13,848	21,957
West Virginia	1,866	1,923	4,532	4,893	16,501	15,436
PAD District II Total	76,476	70,736	1,775,625	1,747,741	106,144	133,845
Illinois	1,725	998	184,910	177,736	7,872	11,296
Indiana	3,165	2,739	87,402	78,349	10,075	7,421
Iowa	1	1	230,329	229,947	2,844	3,548
Kansas	5,027	5,255	182,190	177,137	3,644	4,467
Kentucky	2,158	651	57,186	46,184	12,854	14,943
Michigan	4,835	3,400	93,288	75,643	11,928	17,050
Minnesota	1	8	173,462	169,034	3,922	4,607
Missouri	98	4	58,039	61,667	4,966	6,873
Nebraska	9	78	195,278	221,032	1,272	1,879
North Dakota	7,135	4,560	110,586	114,473	2,799	3,462
Ohio	3,876	3,638	87,413	83,479	24,383	27,712
Oklahoma	48,222	49,320	61,827	58,441	1,199	466
South Dakota	54	40	92,273	86,546	602	1,762
Tennessee	138	35	49,097	55,279	6,946	21,409
Wisconsin	31	7	112,346	112,794	10,837	6,949
PAD District III Total	504,203	505,312	539,869	532,147	46,521	38,971
Alabama	7,067	13,155	36,247	33,681	7,126	10,483
Arkansas	3,696	3,512	82,167	78,629	11,518	9,235
Louisiana	265,550	309,490	57,519	65,492	13,316	4,220
Mississippi	7,170	10,905	68,906	77,162	1,818	2,514
New Mexico	11,550	10,947	14,750	16,432	904	487
Texas	209,171	157,303	280,280	260,751	11,839	12,032
PAD District IV Total	47,467	29,478	207,866	169,808	5,410	6,252
Colorado	12,896	13,187	66,034	55,636	1,387	1,305
Idaho	-	-	60,169	50,530	81	51
Montana	456	560	51,605	35,368	50	92
Utah	6,086	6,965	15,616	13,844	1,201	2,837
Wyoming	28,030	8,766	14,443	14,431	2,690	1,967
PAD District V Total	66,807	57,205	459,277	462,986	134,496	131,876
Alaska	50,303	40,686	179	53	37,622	36,355
Arizona	233	407	18,333	21,497	950	2,469
California	15,797	14,921	312,407	319,445	4,962	3,781
Hawaii	122	778	12,329	10,696	87,683	85,537
Nevada	184	145	5,608	7,308	1,181	2,215
Oregon	29	3	47,525	46,717	774	904
Washington	139	266	62,896	57,269	1,324	615

See footnotes at end of table.

Table 4. Sales of Distillate Fuel Oil by End Use, 1993 and 1994 (Continued)

(Thousand Gallons)

Destination	Railroad		Vessel Bunkering		On-Highway	
	1993	1994	1993	1994	1993	1994
U.S. Total	3,000,104	3,141,324	2,154,757	2,189,346	22,758,842	24,442,609
PAD District I Total	488,263	574,446	572,817	516,082	6,844,848	7,833,800
Subdistrict IA Total	22,313	35,216	94,410	80,252	741,171	769,320
Connecticut	2,213	6,368	3,756	3,250	195,314	176,778
Maine	9,011	10,172	19,743	24,657	114,357	127,602
Massachusetts	8,747	18,067	59,918	41,467	270,293	294,788
New Hampshire	488	230	1,168	490	53,374	55,727
Rhode Island	453	12	9,424	9,984	37,969	41,559
Vermont	1,401	366	402	404	69,864	72,866
Subdistrict IB Total	188,709	219,635	151,188	144,794	2,819,157	2,987,381
Delaware	1,522	637	12,514	2,068	54,602	61,356
District of Columbia	5,022	6,296	2	65	20,663	21,565
Maryland	31,900	31,954	13,824	14,507	339,906	306,348
New Jersey	75,769	96,355	83,891	91,777	459,725	554,233
New York	24,774	14,017	17,502	14,973	862,697	906,022
Pennsylvania	49,722	70,375	23,454	21,404	1,081,564	1,137,857
Subdistrict IC Total	277,241	319,596	327,218	291,037	3,284,520	4,077,099
Florida	73,096	96,428	166,460	150,400	391,250	878,915
Georgia	54,289	70,879	34,881	6,336	994,161	1,038,821
North Carolina	57,018	59,772	17,424	16,548	659,667	760,596
South Carolina	7,873	9,332	14,751	2,993	405,925	516,634
Virginia	65,189	66,213	36,549	44,790	623,277	676,118
West Virginia	19,776	16,972	57,154	69,970	210,240	206,015
PAD District II Total	1,175,220	1,183,866	368,683	380,814	8,031,175	8,101,108
Illinois	126,696	132,466	53,930	66,428	1,003,542	^E 740,451
Indiana	162,321	171,125	13,270	13,301	846,955	933,435
Iowa	53,506	52,095	3,445	4,558	344,722	372,559
Kansas	118,548	103,883	-	-	317,514	294,362
Kentucky	95,886	103,466	114,093	119,591	677,597	582,087
Michigan	37,968	53,554	8,641	8,009	720,010	724,072
Minnesota	105,611	116,168	3,779	2,461	371,114	415,879
Missouri	16,209	15,279	57,247	58,812	684,238	725,701
Nebraska	107,504	100,192	-	-	257,871	281,594
North Dakota	40,355	42,169	-	-	108,405	124,796
Ohio	122,725	127,646	8,702	9,532	990,340	1,064,220
Okiahoma	112,485	84,693	3	192	431,518	476,271
South Dakota	4,190	4,780	-	-	113,032	133,800
Tennessee	50,398	28,241	103,393	95,003	646,911	674,143
Wisconsin	20,819	48,110	2,179	2,928	517,406	557,738
PAD District III Total	690,321	671,931	764,939	818,739	3,679,524	4,046,337
Alabama	50,660	56,715	70,648	73,879	581,516	649,271
Arkansas	39,035	65,831	2,066	2,421	425,711	467,619
Louisiana	31,931	28,117	367,714	452,286	405,567	437,193
Mississippi	28,233	42,396	48,137	37,868	340,836	352,785
New Mexico	19,690	15,139	-	-	239,050	222,791
Texas	520,773	463,734	276,375	252,285	1,686,844	1,916,678
PAD District IV Total	275,629	304,602	118	62	956,546	975,232
Colorado	81,532	92,484	-	-	260,723	258,390
Idaho	21,773	29,209	93	37	162,865	157,989
Montana	55,753	68,940	-	-	138,049	154,384
Utah	37,827	33,364	26	23	189,182	208,592
Wyoming	78,744	80,604	-	-	205,727	195,877
PAD District V Total	370,671	406,480	448,200	473,649	3,246,749	3,486,132
Alaska	4,941	4,378	138,521	135,200	98,938	53,142
Arizona	15,733	8,091	24	17	474,134	456,123
California	191,506	207,291	83,243	127,385	1,824,363	1,985,649
Hawaii	17	-	86,376	67,509	25,564	30,649
Nevada	1,767	13,145	-	-	174,537	172,148
Oregon	101,470	111,300	39,335	41,019	329,762	^E 343,909
Washington	55,236	62,275	100,701	102,518	319,451	444,512

See footnotes at end of table.

Table 4. Sales of Distillate Fuel Oil by End Use, 1993 and 1994 (Continued)

(Thousand Gallons)

Destination	Military		Off-Highway		All Other		Total	
	1993	1994	1993	1994	1993	1994	1993	1994
U.S. Total	491,320	610,474	2,104,299	2,153,153	2,709	752	48,290,076	50,423,596
PAD District I Total	99,157	122,750	551,918	554,540	178	32	18,460,578	19,605,350
Subdistrict IA Total	19,328	35,173	70,503	66,384	29	10	4,052,925	4,116,785
Connecticut	2,115	2,822	8,535	4,923	-	10	1,007,708	963,121
Maine	7,731	22,319	26,089	28,515	-	-	580,879	642,070
Massachusetts	2,925	4,763	16,268	18,547	-	-	1,666,776	1,667,941
New Hampshire	303	883	9,226	6,155	29	-	305,092	324,993
Rhode Island	5,899	4,231	2,517	2,888	-	-	251,308	283,704
Vermont	356	155	7,869	5,355	-	-	241,163	234,958
Subdistrict IB Total	31,692	36,916	195,841	196,069	-	20	8,533,864	8,870,393
Delaware	1,123	999	3,848	3,726	-	-	158,616	157,890
District of Columbia	760	3,276	577	535	-	-	91,521	114,475
Maryland	15,936	20,614	30,517	29,831	-	16	875,494	882,123
New Jersey	4,568	699	32,911	40,195	-	-	1,528,775	1,715,530
New York	7,433	8,987	51,489	45,726	-	-	3,154,139	3,139,465
Pennsylvania	1,872	2,341	76,500	76,056	-	4	2,725,318	2,860,910
Subdistrict IC Total	48,137	50,661	285,574	292,087	149	2	5,873,790	6,618,172
Florida	6,546	8,987	79,463	78,797	18	-	1,060,421	1,495,603
Georgia	5,713	10,619	79,907	77,121	-	-	1,340,723	1,362,032
North Carolina	3,897	5,896	41,666	49,649	90	-	1,157,353	1,272,391
South Carolina	5,010	931	28,397	31,413	-	-	591,380	672,163
Virginia	26,816	24,030	44,090	38,038	-	-	1,246,519	1,314,274
West Virginia	154	197	12,051	17,069	41	2	477,395	501,707
PAD District II Total	34,615	26,668	613,327	616,229	496	188	14,380,264	14,421,528
Illinois	2,256	356	72,101	74,607	-	162	1,623,985	1,378,101
Indiana	1,474	969	40,536	33,790	-	-	1,405,324	1,466,877
Iowa	231	160	25,868	25,301	-	-	725,237	754,453
Kansas	3,973	4,389	24,051	24,457	-	-	696,268	643,464
Kentucky	4,121	2,369	33,924	40,623	-	14	1,197,519	1,150,442
Michigan	2,106	1,036	65,246	73,038	-	8	1,222,780	1,211,340
Minnesota	509	191	37,325	39,258	189	-	906,037	967,069
Missouri	3,041	4,132	43,667	56,294	223	4	956,576	1,011,857
Nebraska	395	770	14,265	10,052	-	-	603,029	640,551
North Dakota	957	1,444	3,786	5,368	-	-	320,760	338,131
Ohio	5,006	850	88,729	87,827	27	-	1,692,669	1,770,515
Oklahoma	2,500	3,165	16,400	18,448	-	-	699,000	714,560
South Dakota	1,752	297	8,575	10,885	-	-	266,598	285,590
Tennessee	4,518	2,936	73,482	63,013	56	-	1,010,302	1,023,794
Wisconsin	1,776	3,606	65,372	53,267	-	-	1,054,179	1,064,785
PAD District III Total	243,482	215,760	418,587	439,672	855	531	7,371,912	7,798,201
Alabama	5,559	4,605	51,930	58,741	-	4	916,441	1,033,665
Arkansas	1,256	3,267	41,119	45,529	46	172	633,469	703,682
Louisiana	48,246	52,499	82,184	82,448	-	-	1,344,284	1,529,012
Mississippi	12,727	14,586	37,018	45,187	802	344	580,575	625,833
New Mexico	2,397	2,781	15,541	9,784	7	-	329,782	297,210
Texas	173,297	138,023	190,794	197,985	-	11	3,567,360	3,608,799
PAD District IV Total	11,902	13,063	104,022	100,316	50	-	1,870,151	1,889,750
Colorado	5,143	7,531	31,832	24,669	16	-	517,939	521,445
Idaho	1,955	1,509	16,158	19,518	34	-	311,057	317,822
Montana	473	543	17,646	14,858	-	-	316,762	322,123
Utah	4,089	3,236	18,393	23,445	-	-	322,002	336,262
Wyoming	243	244	19,994	17,826	-	-	402,391	392,098
PAD District V Total	102,164	232,233	416,445	442,394	1,130	-	6,207,171	6,708,767
Alaska	11,490	12,741	29,276	40,340	-	-	554,130	509,722
Arizona	2,180	2,095	24,750	26,874	-	-	614,564	607,413
California	47,661	126,577	177,477	200,812	1,099	-	2,832,259	3,176,116
Hawaii	4,622	43,296	12,347	8,823	-	-	251,558	267,850
Nevada	1,278	1,506	21,586	24,397	-	-	397,546	407,030
Oregon	1,220	1,201	75,653	60,178	-	-	732,292	738,568
Washington	33,712	44,816	75,356	80,970	30	-	824,823	1,002,068

^E Estimated data. Illinois' annual estimate is based on eleven months of data. Since 1994 data for Oregon were not available, estimate is based on 1993 data.

Dashes (-) = No data reported.

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

Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 1993 and 1994.

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

Table 5. Sales of Residual Fuel Oil by End Use, 1993 and 1994

(Thousand Gallons)

Destination	Commercial		Industrial		Oil Company		Electric Utility	
	1993	1994	1993	1994	1993	1994	1993	1994
U.S. Total	1,025,895	1,061,450	2,378,191	2,337,188	266,518	242,754	6,035,413	5,729,485
PAD District I Total	990,799	1,016,242	1,725,063	1,692,202	110,616	102,336	5,167,758	5,145,733
Subdistrict IA Total	182,098	214,061	524,895	581,972	414	333	1,092,117	1,001,545
Connecticut	15,221	25,070	52,317	49,599	187	333	267,847	247,485
Maine	27,258	29,515	256,012	351,797	227	-	45,976	40,009
Massachusetts	95,540	114,626	130,348	104,389	-	-	690,646	618,741
New Hampshire	14,010	17,306	52,782	50,572	-	-	84,738	88,465
Rhode Island	23,668	24,216	22,147	18,019	-	-	2,910	6,846
Vermont	6,401	3,328	11,288	7,596	-	-	-	-
Subdistrict IB Total	784,108	777,750	400,168	392,483	109,137	101,186	1,714,622	1,850,373
Delaware	8,116	6,159	36,813	36,378	27,695	32,934	176,776	145,196
District of Columbia	7,648	6,503	-	29	-	-	-	-
Maryland	7,130	8,309	45,187	47,169	665	698	215,167	310,075
New Jersey	73,612	80,631	92,187	93,853	4,203	2,753	106,830	205,646
New York	646,136	623,200	141,259	120,288	2,870	2,253	958,225	893,326
Pennsylvania	41,465	52,949	84,722	94,766	73,704	62,548	257,624	296,130
Subdistrict IC Total	24,592	24,431	799,999	717,746	1,065	816	2,361,019	2,293,814
Florida	5,283	5,193	192,600	174,902	101	71	2,212,559	2,166,958
Georgia	234	261	103,302	109,234	39	-	4,744	1,822
North Carolina	10,614	10,230	271,774	226,078	-	-	-	-
South Carolina	1,033	2,538	113,612	93,635	164	154	2,849	-
Virginia	6,708	6,018	100,423	94,939	761	591	140,866	125,035
West Virginia	719	192	18,288	18,959	-	-	-	-
PAD District II Total	21,164	20,801	357,304	342,192	87,009	81,516	102,678	147,864
Illinois	2,059	2,557	12,766	12,696	6,975	10,549	61,274	86,838
Indiana	1,396	1,555	51,470	67,203	42,394	39,019	-	-
Iowa	171	43	5,884	6,920	-	-	27	-
Kansas	1,102	93	9,935	5,259	1,228	1,441	168	58
Kentucky	88	70	5,656	7,533	6,650	4,992	-	-
Michigan	297	130	34,859	33,181	649	3,936	27,556	51,822
Minnesota	4,957	6,153	30,203	27,032	10,901	8,844	-	-
Missouri	286	756	37,412	17,779	-	-	13,653	8,772
Nebraska	705	725	9,548	7,423	-	-	-	-
North Dakota	592	566	4,073	6,714	10,052	5,820	-	167
Ohio	991	289	73,853	71,060	3,548	3,434	-	207
Oklahoma	-	-	26,076	21,046	-	-	-	-
South Dakota	27	235	4,213	3,157	-	-	-	-
Tennessee	1,241	1,247	17,030	16,282	-	-	-	-
Wisconsin	7,252	6,383	34,325	38,909	4,611	3,481	-	-
PAD District III Total	29	60	152,492	165,833	1,917	684	277,251	80,540
Alabama	-	30	28,577	41,265	-	-	-	-
Arkansas	23	-	8,057	10,285	-	-	-	1,792
Louisiana	6	-	11,477	8,851	-	-	30,995	4,523
Mississippi	-	-	9,513	6,612	-	-	230,781	70,674
New Mexico	-	-	6,721	6,825	-	-	-	-
Texas	-	30	88,148	91,995	1,917	684	15,475	3,550
PAD District IV Total	3,320	1,181	13,018	9,592	24,142	19,070	-	607
Colorado	10	-	413	43	-	3	-	-
Idaho	1,101	264	299	529	-	-	-	607
Montana	183	131	6,310	125	18,896	14,058	-	-
Utah	2,026	755	3,347	7,470	5,245	5,009	-	-
Wyoming	-	30	2,648	1,425	-	-	-	-
PAD District V Total	10,584	23,166	130,315	127,369	42,834	39,148	487,728	354,742
Alaska	-	-	11,164	13,213	-	-	-	-
Arizona	-	-	4,557	1,728	1,941	-	-	-
California	677	298	51,898	51,250	4,608	431	36,600	16,267
Hawaii	1,272	16,787	8,834	10,944	29,814	32,835	429,176	332,689
Nevada	-	-	3,740	5,389	-	-	21,952	5,670
Oregon	6,438	4,242	24,919	16,038	-	-	-	116
Washington	2,197	1,840	25,203	28,807	6,472	5,883	-	-

See footnotes at end of table.

Table 5. Sales of Residual Fuel Oil by End Use, 1993 and 1994 (Continued)

(Thousand Gallons)

Destination	Vessel Bunkering		Military		All Other		Total	
	1993	1994	1993	1994	1993	1994	1993	1994
U.S. Total	5,281,869	5,386,407	72,540	61,946	3,878	6,111	15,064,305	14,825,378
PAD District I Total	1,289,213	1,200,361	65,466	53,815	2,082	3,547	9,350,996	9,214,272
Subdistrict IA Total	15,248	17,993	10,136	6,753	646	270	1,825,554	1,822,929
Connecticut	-	-	1,156	867	646	265	337,373	323,619
Maine	4,241	4,567	6,256	4,451	-	5	339,970	430,344
Massachusetts	10,753	12,683	2,114	1,436	-	-	929,401	851,874
New Hampshire	49	370	-	-	-	-	151,579	156,712
Rhode Island	206	373	610	-	-	-	49,541	49,455
Vermont	-	-	-	-	-	-	17,689	10,924
Subdistrict IB Total	642,544	647,970	30,697	32,338	317	464	3,681,592	3,802,602
Delaware	42,148	47,463	-	978	194	-	291,742	269,108
District of Columbia	-	-	-	-	-	-	7,648	6,532
Maryland	32,314	23,145	15,274	14,645	-	-	315,737	404,040
New Jersey	231,581	236,515	7,687	7,260	6	-	516,107	626,658
New York	115,515	114,179	4,571	6,987	-	91	1,868,576	1,760,325
Pennsylvania	220,985	226,669	3,165	2,467	117	373	681,782	735,939
Subdistrict IC Total	631,421	534,397	24,633	14,723	1,119	2,813	3,843,849	3,588,741
Florida	431,721	388,529	2,239	2,347	1,049	2,673	2,845,551	2,740,673
Georgia	94,631	71,612	-	-	-	6	202,950	182,935
North Carolina	8,572	1,279	7,206	6,861	-	40	298,167	244,488
South Carolina	16,967	1,566	6,417	1,336	71	94	141,113	99,322
Virginia	79,531	71,411	8,770	4,179	-	-	337,060	302,173
West Virginia	-	-	-	-	-	-	19,007	19,151
PAD District II Total	18,375	17,694	1,116	566	759	130	588,404	610,763
Illinois	1,376	1,939	-	-	-	-	84,450	114,578
Indiana	12,536	8,651	-	-	-	-	107,794	116,427
Iowa	-	-	-	-	-	-	6,081	6,962
Kansas	-	-	-	-	-	6	12,433	6,858
Kentucky	-	-	-	-	-	-	12,394	12,596
Michigan	2,735	3,763	-	-	68	52	66,166	92,884
Minnesota	18	88	-	-	-	-	46,078	42,116
Missouri	140	272	1,116	566	-	1	52,607	28,146
Nebraska	-	-	-	-	-	62	10,254	8,209
North Dakota	-	-	-	-	-	-	14,718	13,267
Ohio	605	2,445	-	-	-	-	78,998	77,435
Oklahoma	-	-	-	-	-	-	26,076	21,046
South Dakota	-	-	-	-	66	-	4,306	3,392
Tennessee	569	97	-	-	625	9	19,464	17,635
Wisconsin	396	439	-	-	-	-	46,585	49,212
PAD District III Total	1,971,760	1,873,148	1,623	4,161	-	6	2,405,073	2,124,432
Alabama	121,016	89,864	-	52	-	5	149,592	131,217
Arkansas	-	-	-	-	-	1	8,080	12,078
Louisiana	991,869	916,053	780	980	-	-	1,035,126	930,407
Mississippi	119,343	137,173	-	-	-	-	359,637	214,459
New Mexico	-	-	-	-	-	-	6,721	6,825
Texas	739,532	730,058	844	3,129	-	-	845,916	829,447
PAD District IV Total	-	49	-	-	8	209	40,487	30,707
Colorado	-	49	-	-	-	3	423	98
Idaho	-	-	-	-	-	8	1,400	1,408
Montana	-	-	-	-	-	-	25,389	14,314
Utah	-	-	-	-	8	97	10,626	13,331
Wyoming	-	-	-	-	-	101	2,648	1,556
PAD District V Total	2,002,521	2,295,156	4,335	3,405	1,030	2,218	2,679,345	2,845,204
Alaska	4,377	3,887	-	-	-	-	15,541	17,099
Arizona	-	-	-	-	-	-	6,498	1,728
California	1,208,847	1,463,744	1,177	879	207	27	1,304,013	1,532,895
Hawaii	98,581	113,777	511	160	793	2,191	568,981	509,384
Nevada	-	-	-	-	-	-	25,692	11,058
Oregon	140,217	149,917	-	-	30	-	171,604	170,313
Washington	550,498	563,831	2,647	2,366	-	-	587,016	602,727

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 1993 and 1994.

Table 6. Sales of Kerosene by End Use, 1993 and 1994

(Thousand Gallons)

Destination	Residential		Commercial		Industrial	
	1993	1994	1993	1994	1993	1994
U.S. Total	560,103	480,916	103,996	144,142	58,190	86,629
PAD District I Total	444,720	367,746	76,975	118,101	34,226	65,489
Subdistrict IA Total	76,731	68,971	16,878	15,420	3,673	5,495
Connecticut	8,845	6,811	1,867	2,153	789	1,782
Maine	31,105	31,846	7,294	6,370	1,764	2,485
Massachusetts	10,493	9,174	4,742	4,194	385	482
New Hampshire	14,754	11,859	1,450	1,703	298	424
Rhode Island	1,660	1,605	101	202	330	309
Vermont	9,874	7,676	1,423	799	108	13
Subdistrict IB Total	170,610	154,114	43,942	72,001	17,716	50,795
Delaware	4,436	4,028	315	317	1,084	6,169
District of Columbia	208	187	186	251	—	—
Maryland	21,381	16,493	3,582	8,931	462	1,336
New Jersey	9,366	12,226	6,709	25,849	5,534	24,615
New York	65,710	58,612	25,876	22,607	4,999	12,603
Pennsylvania	69,510	62,567	7,275	14,047	5,637	6,071
Subdistrict IC Total	197,379	144,660	16,154	30,680	12,837	9,199
Florida	9,159	5,232	2,255	3,212	355	132
Georgia	5,724	3,365	2,724	6,251	783	555
North Carolina	79,286	54,933	2,119	14,288	4,887	2,604
South Carolina	27,104	15,604	845	1,100	3,236	2,786
Virginia	62,532	52,773	6,681	4,231	1,819	944
West Virginia	13,575	12,753	1,531	1,598	1,756	2,178
PAD District II Total	102,383	99,015	21,137	21,118	15,777	13,517
Illinois	3,388	3,030	1,345	2,105	2,200	2,001
Indiana	10,647	11,554	2,035	2,814	617	857
Iowa	1,387	791	286	537	319	302
Kansas	823	320	288	161	96	67
Kentucky	16,635	16,396	3,281	3,048	3,190	2,699
Michigan	14,909	13,526	1,067	1,374	1,068	1,464
Minnesota	1,492	1,893	366	587	92	141
Missouri	1,571	1,006	560	604	114	255
Nebraska	443	220	182	223	36	21
North Dakota	325	240	49	33	9	8
Ohio	35,218	29,785	8,440	6,064	5,906	4,544
Oklahoma	294	214	214	164	385	64
South Dakota	238	159	24	13	6	3
Tennessee	13,045	18,456	2,544	3,051	1,287	778
Wisconsin	1,968	1,425	455	341	454	312
PAD District III Total	5,022	3,531	3,373	2,629	5,599	5,438
Alabama	1,818	1,220	565	449	876	1,274
Arkansas	418	271	217	179	88	63
Louisiana	312	214	1,072	530	917	880
Mississippi	1,034	847	249	109	1,336	808
New Mexico	168	144	242	125	240	128
Texas	1,272	835	1,029	1,238	2,142	2,284
PAD District IV Total	2,023	2,253	494	372	1,138	1,017
Colorado	1,459	1,664	296	190	292	36
Idaho	64	93	6	79	17	7
Montana	291	237	38	35	—	4
Utah	143	227	147	65	55	43
Wyoming	66	33	7	3	774	927
PAD District V Total	5,955	8,371	2,016	1,922	1,449	1,169
Alaska	22	426	8	7	10	13
Arizona	43	75	49	35	17	10
California	2,833	2,827	796	524	850	807
Hawaii	1	1	26	5	15	19
Nevada	446	186	134	105	5	32
Oregon	772	2,099	450	588	355	141
Washington	1,837	2,755	553	658	197	147

See footnotes at end of table.

Table 6. Sales of Kerosene by End Use, 1993 and 1994 (Continued)

(Thousand Gallons)

Destination	Farm		All Other		Total	
	1993	1994	1993	1994	1993	1994
U.S. Total	27,695	27,686	10,805	10,957	760,788	750,330
PAD District I Total	11,461	10,070	5,473	6,055	572,856	567,460
Subdistrict IA Total	663	1,027	576	591	98,522	91,504
Connecticut	43	35	159	129	11,703	10,910
Maine	302	471	134	87	40,599	41,258
Massachusetts	82	24	181	229	15,882	14,102
New Hampshire	69	91	30	78	16,602	14,154
Rhode Island	1	—	7	1	2,099	2,118
Vermont	167	405	66	68	11,637	8,962
Subdistrict IB Total	7,191	3,995	2,880	4,885	242,340	285,790
Delaware	90	21	84	73	6,009	10,609
District of Columbia	—	—	—	—	394	438
Maryland	651	467	26	982	26,103	28,210
New Jersey	35	23	160	436	21,804	63,149
New York	4,596	1,170	514	1,127	101,694	96,119
Pennsylvania	1,818	2,313	2,096	2,267	86,336	87,265
Subdistrict IC Total	3,607	5,048	2,017	579	231,994	190,167
Florida	61	39	118	153	11,948	8,767
Georgia	30	29	112	5	9,373	10,206
North Carolina	1,075	902	693	13	88,059	72,741
South Carolina	69	362	659	37	31,913	19,890
Virginia	1,502	3,101	338	213	72,872	61,261
West Virginia	869	614	97	158	17,829	17,302
PAD District II Total	13,984	14,992	2,814	2,429	156,096	151,071
Illinois	309	610	167	679	7,409	8,425
Indiana	773	2,321	502	480	14,574	18,026
Iowa	981	862	21	11	2,993	2,503
Kansas	228	135	86	50	1,522	733
Kentucky	2,222	1,185	367	286	25,695	23,615
Michigan	864	914	1,093	151	19,000	17,428
Minnesota	525	2,943	49	64	2,524	5,628
Missouri	82	61	21	108	2,347	2,034
Nebraska	333	374	22	32	1,015	871
North Dakota	31	13	3	7	417	302
Ohio	7,049	4,125	185	110	56,798	44,627
Oklahoma	161	906	22	12	1,075	1,359
South Dakota	37	31	9	2	314	208
Tennessee	122	224	204	354	17,201	22,863
Wisconsin	268	287	65	83	3,210	2,448
PAD District III Total	1,232	1,579	1,809	1,898	17,035	15,075
Alabama	13	13	95	53	3,367	3,010
Arkansas	67	11	407	647	1,197	1,171
Louisiana	64	31	240	399	2,606	2,054
Mississippi	54	23	96	374	2,769	2,161
New Mexico	12	6	58	64	720	466
Texas	1,021	1,495	913	361	6,378	6,213
PAD District IV Total	188	117	84	108	3,927	3,867
Colorado	152	78	47	37	2,246	2,005
Idaho	16	4	—	51	103	234
Montana	1	13	—	—	330	289
Utah	17	18	24	14	386	367
Wyoming	2	3	13	6	862	972
PAD District V Total	829	929	624	466	10,874	12,857
Alaska	—	—	169	2	209	448
Arizona	9	4	27	2	146	127
California	681	610	325	278	5,485	5,048
Hawaii	1	1	—	—	44	27
Nevada	2	3	18	1	607	328
Oregon	126	155	24	144	1,728	3,127
Washington	9	155	60	38	2,656	3,752

Dashes (-) = No data reported.

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

Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 1993 and 1994.

Table 7. Sales for Residential Use: Distillate Fuel Oil and Kerosene, 1994
(Thousand Gallons)

Destination	Distillate Fuel Oil			Kerosene
	No. 1	No. 2	Total	
U.S. Total	248,903	6,983,831	7,232,734	480,916
PAD District I Total	57,209	5,921,997	5,979,206	367,746
Subdistrict IA Total	14,615	2,303,338	2,317,953	68,971
Connecticut	312	613,194	613,506	6,811
Maine	2,128	273,383	275,511	31,846
Massachusetts	8,387	956,696	965,083	9,174
New Hampshire	888	185,357	186,245	11,859
Rhode Island	-	171,739	171,739	1,605
Vermont	2,901	102,970	105,871	7,676
Subdistrict IB Total	38,485	3,144,955	3,183,440	154,114
Delaware	-	57,602	57,602	4,028
District of Columbia	-	6,514	6,514	187
Maryland	1,273	242,128	243,401	16,493
New Jersey	19	602,547	602,566	12,226
New York	2,816	1,303,878	1,306,694	58,612
Pennsylvania	34,376	932,286	966,662	62,567
Subdistrict IC Total	4,109	473,704	477,813	144,660
Florida	383	11,776	12,159	5,232
Georgia	513	4,990	5,503	3,365
North Carolina	1,178	157,891	159,069	54,933
South Carolina	765	31,855	32,620	15,604
Virginia	-	239,937	239,937	52,773
West Virginia	1,270	27,254	28,524	12,753
PAD District II Total	112,936	832,310	945,246	99,015
Illinois	3,831	28,441	32,272	3,030
Indiana	11,962	61,089	73,051	11,554
Iowa	6,945	31,959	38,904	791
Kansas	447	638	1,085	320
Kentucky	3,902	28,732	32,634	16,396
Michigan	19,843	141,329	161,172	13,526
Minnesota	22,510	112,772	135,282	1,893
Missouri	2,484	11,640	14,124	1,006
Nebraska	1,596	4,841	6,437	220
North Dakota	6,017	23,276	29,293	240
Ohio	7,129	188,527	195,656	29,785
Oklahoma	2	3	5	214
South Dakota	5,838	15,593	21,431	159
Tennessee	1,730	10,355	12,085	18,456
Wisconsin	18,700	173,113	191,813	1,425
PAD District III Total	151	1,452	1,603	3,531
Alabama	100	400	500	1,220
Arkansas	-	37	37	271
Louisiana	-	483	483	214
Mississippi	2	39	41	847
New Mexico	41	264	305	144
Texas	8	227	235	835
PAD District IV Total	9,916	24,123	34,039	2,253
Colorado	227	718	945	1,664
Idaho	4,084	15,309	19,393	93
Montana	4,071	2,926	6,997	237
Utah	875	3,297	4,172	227
Wyoming	659	1,874	2,533	33
PAD District V Total	68,692	203,949	272,641	8,371
Alaska	35,933	49,261	85,194	426
Arizona	19	225	244	75
California	801	9,259	10,060	2,827
Hawaii	67	10	77	1
Nevada	917	9,326	10,243	186
Oregon	12,301	51,087	63,388	2,099
Washington	18,653	84,781	103,434	2,755

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.

• Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1994, (DOE/EIA-0340(94)/1).

Table 8. Sales for Commercial Use: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 1994
(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	205,495	1,714,250	981,899	493,796	3,189,945	379,489	3,774,929	1,061,450	144,142
PAD District I Total	53,436	1,535,340	411,023	190,229	2,136,592	378,168	2,568,196	1,016,242	118,101
Subdistrict IA Total	2,321	485,891	54,097	24,890	564,878	75,742	642,941	214,061	15,420
Connecticut	1,126	95,496	10,949	2,721	109,166	10,260	120,552	25,070	2,153
Maine	362	96,826	7,464	4,677	108,967	2,609	111,938	29,515	6,370
Massachusetts	130	185,690	22,387	12,150	220,227	50,563	270,920	114,626	4,194
New Hampshire	217	48,773	4,671	2,125	55,569	6,667	62,453	17,306	1,703
Rhode Island	486	31,533	2,609	1,276	35,417	3,589	39,492	24,216	202
Vermont	—	27,573	6,019	1,940	35,532	2,054	37,586	3,328	799
Subdistrict IB Total	42,475	906,078	175,769	75,470	1,157,318	300,268	1,500,060	777,750	72,001
Delaware	—	10,153	1,085	706	11,944	692	12,636	6,159	317
District of Columbia	7,264	22,497	5,279	853	28,630	8,430	44,323	6,503	251
Maryland	4,986	104,052	19,322	18,467	141,841	2,718	149,545	8,309	8,931
New Jersey	88	161,829	28,417	16,516	206,762	36,471	243,322	80,631	25,849
New York	26,905	385,117	46,272	14,011	445,400	240,219	712,524	623,200	22,607
Pennsylvania	3,230	222,430	75,394	24,917	322,740	11,738	337,709	52,949	14,047
Subdistrict IC Total	8,640	143,370	181,156	89,870	414,396	2,158	425,195	24,431	30,680
Florida	1,431	9,051	78,146	18,171	105,368	152	106,951	5,193	3,212
Georgia	112	6,479	30,803	13,156	50,438	—	50,550	261	6,251
North Carolina	707	45,174	23,762	25,641	94,577	360	95,644	10,230	14,288
South Carolina	7	11,423	14,947	4,952	31,322	473	31,802	2,538	1,100
Virginia	6,082	64,078	27,281	21,833	113,192	1,035	120,308	6,018	4,231
West Virginia	302	7,166	6,217	6,116	19,499	139	19,939	192	1,598
PAD District II Total	71,431	122,481	222,366	145,174	490,021	507	561,960	20,801	21,118
Illinois	34,199	17,896	14,654	21,685	54,235	86	88,519	2,557	2,105
Indiana	4,233	16,110	26,308	14,680	57,098	62	61,393	1,555	2,814
Iowa	1,968	3,757	8,643	1,258	13,659	—	15,627	43	537
Kansas	2,553	615	8,757	8,005	17,377	—	19,930	93	161
Kentucky	1,197	7,460	21,649	9,086	38,195	114	39,505	70	3,048
Michigan	8,893	13,955	21,183	13,360	48,498	41	57,431	130	1,374
Minnesota	4,104	13,358	13,824	4,646	31,828	175	36,107	6,153	587
Missouri	2,251	2,599	18,927	23,932	45,458	30	47,739	756	604
Nebraska	2,518	990	4,188	6,779	11,957	—	14,475	725	223
North Dakota	1,200	2,416	3,110	960	6,487	—	7,687	566	33
Ohio	1,009	11,098	32,627	15,267	58,991	—	60,000	289	6,064
Oklahoma	86	508	6,751	3,164	10,423	—	10,509	—	164
South Dakota	2,293	4,860	2,404	1,061	8,326	—	10,619	235	13
Tennessee	433	4,271	22,999	12,527	39,797	—	40,230	1,247	3,051
Wisconsin	4,495	22,588	16,342	8,763	47,694	—	52,189	6,383	341
PAD District III Total	8,095	14,745	112,719	77,718	205,182	45	213,323	60	2,629
Alabama	—	3,203	24,574	13,453	41,229	—	41,229	30	449
Arkansas	—	6,068	5,812	4,842	16,721	45	16,766	—	179
Louisiana	661	1,192	7,837	23,641	32,670	—	33,330	—	530
Mississippi	—	1,313	8,202	7,130	16,644	—	16,644	—	109
New Mexico	145	151	5,384	2,475	8,009	—	8,155	—	125
Texas	7,289	2,818	60,912	26,179	89,909	—	97,197	30	1,238
PAD District IV Total	11,217	8,241	63,866	11,637	83,744	—	94,961	1,181	372
Colorado	4,915	1,451	34,208	4,544	40,203	—	45,119	—	190
Idaho	2,509	3,913	8,024	1,886	13,823	—	16,331	264	79
Montana	1,172	934	4,727	165	5,826	—	6,999	131	35
Utah	1,603	1,584	9,861	4,858	16,303	—	17,906	755	65
Wyoming	1,018	359	7,046	185	7,590	—	8,607	30	3
PAD District V Total	61,316	33,443	171,924	69,037	274,404	769	336,489	23,166	1,922
Alaska	49,797	14,155	1,688	14,053	29,895	707	80,400	—	7
Arizona	365	1,948	14,197	619	16,764	43	17,172	—	35
California	688	3,714	88,829	8,967	101,509	—	102,197	298	524
Hawaii	453	934	8,680	7,016	16,630	—	17,084	16,787	5
Nevada	1,031	1,480	27,846	5,482	34,807	—	35,838	—	105
Oregon	4,444	2,430	15,816	12,110	30,356	19	34,820	4,242	588
Washington	4,537	8,780	14,869	20,792	44,442	—	48,979	1,840	658

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.

• Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1994, (DOE/EIA-0340(94)/1).

Table 9. Sales for Industrial Use: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 1994
(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	51,792	504,113	592,490	1,051,557	2,148,160	69,054	2,269,007	2,337,188	86,629
PAD District I Total	2,660	304,762	94,128	275,955	674,845	55,881	733,386	1,692,202	65,489
Subdistrict IA Total	114	88,876	8,268	3,303	100,448	21,567	122,129	581,972	5,495
Connecticut	—	16,757	1,073	719	18,550	8,558	27,109	49,599	1,782
Maine	72	32,812	804	495	34,112	231	34,414	351,797	2,485
Massachusetts	7	21,910	4,068	453	26,431	6,301	32,740	104,389	482
New Hampshire	35	5,713	1,401	883	7,996	2,006	10,037	50,572	424
Rhode Island	—	7,063	464	586	8,113	2,998	11,110	18,019	309
Vermont	—	4,621	457	167	5,245	1,473	6,719	7,596	13
Subdistrict IB Total	646	118,652	41,093	101,075	260,821	26,491	287,958	392,483	50,795
Delaware	—	3,840	3,546	568	7,954	131	8,085	36,378	6,169
District of Columbia	—	6	4	14	24	53	77	29	—
Maryland	460	12,892	4,989	12,760	30,642	952	32,054	47,169	1,336
New Jersey	24	32,540	1,229	10,920	44,689	11,967	56,680	93,853	24,615
New York	9	35,189	3,395	4,837	43,420	9,002	52,431	120,288	12,603
Pennsylvania	153	34,186	27,930	71,976	134,092	4,386	138,631	94,766	6,071
Subdistrict IC Total	1,899	97,234	44,766	171,576	313,577	7,822	323,298	717,746	9,199
Florida	19	1,746	16,266	24,318	42,330	3,074	45,424	174,902	132
Georgia	70	4,554	6,653	20,482	31,690	415	32,175	109,234	555
North Carolina	4	35,712	1,870	21,250	58,832	2,614	61,449	226,078	2,604
South Carolina	—	11,609	2,725	4,558	18,892	519	19,411	93,635	2,786
Virginia	161	24,739	4,717	13,364	42,820	1,091	44,072	94,939	944
West Virginia	1,646	18,873	12,535	87,604	119,012	110	120,767	18,959	2,178
PAD District II Total	25,727	154,689	111,128	355,675	621,491	5,910	653,128	342,192	13,517
Illinois	2,016	13,549	7,534	29,706	50,789	5	52,811	12,696	2,001
Indiana	2,934	39,244	10,550	38,532	88,326	46	91,305	67,203	857
Iowa	1,617	2,029	3,670	4,438	10,136	—	11,754	6,920	302
Kansas	922	875	3,374	3,328	7,577	—	8,499	5,259	67
Kentucky	131	10,821	18,988	137,935	167,744	500	168,375	7,533	2,699
Michigan	1,369	15,214	6,722	12,819	34,754	803	36,926	33,181	1,464
Minnesota	10,471	20,371	6,782	9,304	36,457	1,146	48,074	27,032	141
Missouri	852	3,473	4,751	11,846	20,070	307	21,228	17,779	255
Nebraska	215	133	650	3,043	3,825	—	4,040	7,423	21
North Dakota	955	2,635	691	597	3,923	—	4,878	6,714	8
Ohio	389	20,314	16,177	72,071	108,563	1,002	109,954	71,060	4,544
Oklahoma	38	6,262	3,847	2,901	13,010	—	13,048	21,046	64
South Dakota	1,772	577	12,606	395	13,579	79	15,430	3,157	3
Tennessee	—	4,634	9,507	15,477	29,617	1,804	31,421	16,282	778
Wisconsin	2,045	14,557	5,280	13,284	33,122	218	35,385	38,909	312
PAD District III Total	2,763	19,043	102,102	189,722	310,867	244	313,874	165,833	5,438
Alabama	—	7,548	19,213	64,641	91,402	—	91,402	41,265	1,274
Arkansas	—	13	1,788	8,862	10,663	—	10,663	10,285	63
Louisiana	—	463	29,504	33,486	63,454	—	63,454	8,851	880
Mississippi	—	3,804	10,867	10,484	25,156	244	25,400	6,612	808
New Mexico	2,519	33	6,821	1,019	7,873	—	10,391	6,825	128
Texas	245	7,182	33,908	71,229	112,319	—	112,564	91,995	2,284
PAD District IV Total	11,615	3,244	115,342	31,610	150,196	125	161,936	9,592	1,017
Colorado	699	286	15,270	5,925	21,482	—	22,181	43	36
Idaho	2,420	30	11,626	9,179	20,835	—	23,256	529	7
Montana	4,141	164	27,572	1,501	29,237	4	33,382	125	4
Utah	1,489	2,061	12,005	6,294	20,360	28	21,876	7,470	43
Wyoming	2,865	703	48,869	8,711	58,283	93	61,241	1,425	927
PAD District V Total	9,027	22,376	169,789	198,596	390,761	6,894	406,682	127,369	1,169
Alaska	3,037	7,858	4,286	6,052	18,197	—	21,233	13,213	13
Arizona	15	185	18,600	53,528	72,313	96	72,424	1,728	10
California	426	2,048	62,341	6,398	70,787	6,783	77,997	51,250	807
Hawaii	—	148	873	2,381	3,402	—	3,402	10,944	19
Nevada	4,899	206	48,626	86,338	135,169	15	140,084	5,389	32
Oregon	160	7,099	12,783	15,086	34,969	—	35,129	16,038	141
Washington	489	4,830	22,280	28,814	55,924	—	56,413	28,807	147

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.

• Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1994, (DOE/EIA-0340(94)/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, 1994
(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	3,131,071	139,157	3,270,227	27,686	663,814	5,729,485	675,228	242,754
PAD District I Total	316,436	41,110	357,546	10,070	352,870	5,145,733	12,496	102,336
Subdistrict IA Total	11,841	8,850	20,690	1,027	25,210	1,001,545	1,506	333
Connecticut	1,405	3,310	4,714	35	2,671	247,485	418	333
Maine	3,167	2,925	6,092	471	764	40,009	86	-
Massachusetts	2,359	438	2,797	24	18,092	618,741	675	-
New Hampshire	902	732	1,633	91	1,140	88,465	-	-
Rhode Island	573	39	612	-	1,766	6,846	309	-
Vermont	3,436	1,407	4,842	405	777	-	18	-
Subdistrict IB Total	97,956	22,766	120,722	3,995	187,996	1,850,373	5,403	101,186
Delaware	4,417	133	4,551	21	5,919	145,196	311	32,934
District of Columbia	-	-	-	-	31,825	-	-	-
Maryland	19,049	1,175	20,223	467	32,890	310,075	738	698
New Jersey	7,791	1,848	9,639	23	17,797	205,646	2,266	2,753
New York	39,730	10,936	50,666	1,170	26,516	893,326	908	2,253
Pennsylvania	26,969	8,674	35,643	2,313	73,048	296,130	1,180	62,548
Subdistrict IC Total	206,639	9,494	216,134	5,048	139,664	2,293,814	5,588	816
Florida	58,436	557	58,993	39	57,387	2,166,958	1,163	71
Georgia	59,329	16	59,346	29	9,762	1,822	921	-
North Carolina	34,277	6,665	40,942	902	22,674	-	152	-
South Carolina	14,261	318	14,579	362	12,447	-	1	154
Virginia	36,308	1,074	37,382	3,101	21,957	125,035	1,429	591
West Virginia	4,028	865	4,893	614	15,436	-	1,923	-
PAD District II Total	1,656,293	91,448	1,747,741	14,992	133,845	147,864	70,736	81,516
Illinois	170,738	6,998	177,736	610	11,296	86,838	998	10,549
Indiana	73,375	4,974	78,349	2,321	7,421	-	2,739	39,019
Iowa	217,667	12,280	229,947	862	3,548	-	1	-
Kansas	175,782	1,355	177,137	135	4,467	58	5,255	1,441
Kentucky	41,338	4,845	46,184	1,185	14,943	-	651	4,992
Michigan	64,315	11,328	75,643	914	17,050	51,822	3,400	3,936
Minnesota	151,718	17,316	169,034	2,943	4,607	-	8	8,844
Missouri	61,392	274	61,667	61	6,873	8,772	4	-
Nebraska	215,775	5,257	221,032	374	1,879	-	78	-
North Dakota	112,339	2,134	114,473	13	3,462	167	4,560	5,820
Ohio	75,581	7,898	83,479	4,125	27,712	207	3,638	3,434
Oklahoma	58,441	-	58,441	906	466	-	49,320	-
South Dakota	84,840	1,706	86,546	31	1,762	-	40	-
Tennessee	55,279	-	55,279	224	21,409	-	35	-
Wisconsin	97,711	15,083	112,794	287	6,949	-	7	3,481
PAD District III Total	532,022	126	532,147	1,579	38,971	80,540	505,312	684
Alabama	33,665	15	33,681	13	10,483	-	13,155	-
Arkansas	78,622	8	78,629	11	9,235	1,792	3,512	-
Louisiana	65,393	99	65,492	31	4,220	4,523	309,490	-
Mississippi	77,160	2	77,162	23	2,514	70,674	10,905	-
New Mexico	16,431	1	16,432	6	487	-	10,947	-
Texas	260,751	-	260,751	1,495	12,032	3,550	157,303	684
PAD District IV Total	168,227	1,581	169,808	117	6,252	607	29,478	19,070
Colorado	55,309	327	55,636	78	1,305	-	13,187	3
Idaho	50,253	276	50,530	4	51	607	-	-
Montana	34,494	873	35,368	13	92	-	560	14,058
Utah	13,761	82	13,844	18	2,837	-	6,965	5,009
Wyoming	14,409	22	14,431	3	1,967	-	8,766	-
PAD District V Total	458,093	4,893	462,986	929	131,876	354,742	57,205	39,148
Alaska	50	3	53	-	36,355	-	40,686	-
Arizona	21,497	-	21,497	4	2,469	-	407	-
California	319,445	-	319,445	610	3,781	16,267	14,921	431
Hawaii	8,054	2,641	10,696	1	85,537	332,689	778	32,835
Nevada	7,195	113	7,308	3	2,215	5,670	145	-
Oregon	45,291	1,426	46,717	155	904	116	3	-
Washington	56,560	709	57,269	155	615	-	266	5,883

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.

• Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1994, (DOE/EIA-0340(94)/1).

Table 11. Sales for Transportation Use: Distillate Fuel Oil and Residual Fuel Oil, 1994
(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	3,141,324	2,189,346	5,386,407	24,442,609	29,773,279	5,386,444
PAD District I Total	574,446	516,082	1,200,361	7,833,800	8,924,329	1,200,398
Subdistrict IA Total	35,216	80,252	17,993	769,320	884,788	17,993
Connecticut	6,368	3,250	—	176,778	186,396	—
Maine	10,172	24,657	4,567	127,602	162,432	4,567
Massachusetts	18,067	41,467	12,683	294,788	354,323	12,683
New Hampshire	230	490	370	55,727	56,446	370
Rhode Island	12	9,984	373	41,559	51,556	373
Vermont	366	404	—	72,866	73,636	—
Subdistrict IB Total	219,635	144,794	647,970	2,987,381	3,351,809	648,007
Delaware	637	2,068	47,463	61,356	64,061	47,463
District of Columbia	6,296	65	—	21,565	27,926	—
Maryland	31,954	14,507	23,145	306,348	352,809	23,145
New Jersey	96,355	91,777	236,515	554,233	742,365	236,515
New York	14,017	14,973	114,179	906,022	935,012	114,179
Pennsylvania	70,375	21,404	226,669	1,137,857	1,229,636	226,706
Subdistrict IC Total	319,596	291,037	534,397	4,077,099	4,687,732	534,397
Florida	96,428	150,400	388,529	878,915	1,125,742	388,529
Georgia	70,879	6,336	71,612	1,038,821	1,116,036	71,612
North Carolina	59,772	16,548	1,279	760,596	836,916	1,279
South Carolina	9,332	2,993	1,566	516,634	528,959	1,566
Virginia	66,213	44,790	71,411	676,118	787,120	71,411
West Virginia	16,972	69,970	—	206,015	292,958	—
PAD District II Total	1,183,866	380,814	17,694	8,101,108	9,665,788	17,694
Illinois	132,466	66,428	1,939	^E 740,451	939,344	1,939
Indiana	171,125	13,301	8,651	933,435	1,117,860	8,651
Iowa	52,095	4,558	—	372,559	429,212	—
Kansas	103,883	—	—	294,362	398,245	—
Kentucky	103,466	119,591	—	582,087	805,144	—
Michigan	53,554	8,009	3,763	724,072	785,634	3,763
Minnesota	116,168	2,461	88	415,879	534,507	88
Missouri	15,279	58,812	272	725,701	799,792	272
Nebraska	100,192	—	—	281,594	381,786	—
North Dakota	42,169	—	—	124,796	166,965	—
Ohio	127,646	9,532	2,445	1,064,220	1,201,398	2,445
Oklahoma	84,693	192	—	476,271	561,156	—
South Dakota	4,780	—	—	133,800	138,580	—
Tennessee	28,241	95,003	97	674,143	797,386	97
Wisconsin	48,110	2,928	439	557,738	608,776	439
PAD District III Total	671,931	818,739	1,873,148	4,046,337	5,537,007	1,873,148
Alabama	56,715	73,879	89,864	649,271	779,864	89,864
Arkansas	65,831	2,421	—	467,619	535,870	—
Louisiana	28,117	452,286	916,053	437,193	917,596	916,053
Mississippi	42,396	37,868	137,173	352,785	433,049	137,173
New Mexico	15,139	—	—	222,791	237,930	—
Texas	463,734	252,285	730,058	1,916,678	2,632,697	730,058
PAD District IV Total	304,602	62	49	975,232	1,279,895	49
Colorado	92,484	—	49	258,390	350,874	49
Idaho	29,209	37	—	157,989	187,235	—
Montana	68,940	1	—	154,384	223,325	—
Utah	33,364	23	—	208,592	241,980	—
Wyoming	80,604	—	—	195,877	276,481	—
PAD District V Total	406,480	473,649	2,295,156	3,486,132	4,366,261	2,295,156
Alaska	4,378	135,200	3,887	53,142	192,720	3,887
Arizona	8,091	17	—	456,123	464,231	—
California	207,291	127,385	1,463,744	1,985,649	2,320,326	1,463,744
Hawaii	—	67,509	113,777	30,649	98,158	113,777
Nevada	13,145	—	—	172,148	185,293	—
Oregon	111,300	41,019	149,917	^E 343,909	496,228	149,917
Washington	62,275	102,518	563,831	444,512	609,305	563,831

^E Estimated data. Illinois' annual estimate is based on eleven months of data. Since 1994 data for Oregon were not available, estimate is based on 1993 data.

Dashes (-) = No data reported.

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

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

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

Table 12. Sales for Military, Off-Highway, and All Other Uses: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 1994
(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	520,356	90,118	610,474	61,946	1,643,040	510,112	2,153,153	752	6,111	10,957
PAD District I Total	46,417	76,333	122,750	53,815	446,914	107,626	554,540	32	3,547	6,055
Subdistrict IA Total	14,355	20,818	35,173	6,753	46,009	20,376	66,384	10	270	591
Connecticut	306	2,516	2,822	867	4,679	244	4,923	10	265	129
Maine	9,469	12,850	22,319	4,451	12,515	16,000	28,515	-	5	87
Massachusetts	3,481	1,283	4,763	1,436	17,487	1,060	18,547	-	-	229
New Hampshire	883	-	883	-	3,625	2,530	6,155	-	-	78
Rhode Island	81	4,150	4,231	-	2,888	-	2,888	-	-	1
Vermont	135	20	155	-	4,814	541	5,355	-	-	68
Subdistrict IB Total	7,100	29,816	36,916	32,338	189,348	6,721	196,069	20	464	4,885
Delaware	17	982	999	978	3,479	247	3,726	-	-	73
District of Columbia	1,107	2,169	3,276	-	535	-	535	-	-	-
Maryland	2,580	18,034	20,614	14,645	28,555	1,276	29,831	16	-	982
New Jersey	559	140	699	7,260	39,515	681	40,195	-	-	436
New York	1,992	6,995	8,987	6,987	45,489	237	45,726	-	91	1,127
Pennsylvania	845	1,496	2,341	2,467	71,775	4,281	76,056	4	373	2,267
Subdistrict IC Total	24,962	25,698	50,661	14,723	211,557	80,530	292,087	2	2,813	579
Florida	8,987	-	8,987	2,347	69,578	9,219	78,797	-	2,673	153
Georgia	5,666	4,953	10,619	-	42,692	34,429	77,121	-	6	5
North Carolina	5,319	577	5,896	6,861	35,569	14,080	49,649	-	40	13
South Carolina	915	16	931	1,336	17,759	13,654	31,413	-	94	37
Virginia	3,999	20,031	24,030	4,179	29,389	8,649	38,038	-	-	213
West Virginia	75	122	197	-	16,571	498	17,069	2	-	158
PAD District II Total	23,968	2,700	26,668	566	544,136	72,093	616,229	188	130	2,429
Illinois	299	56	356	-	72,785	1,821	74,607	162	-	679
Indiana	402	567	969	-	30,023	3,767	33,790	-	-	480
Iowa	160	-	160	-	21,545	3,756	25,301	-	-	11
Kansas	4,216	172	4,389	-	21,539	2,918	24,457	-	6	50
Kentucky	1,381	988	2,369	-	35,040	5,583	40,623	14	-	286
Michigan	1,031	5	1,036	-	60,483	12,556	73,038	8	52	151
Minnesota	91	101	191	-	35,805	3,453	39,258	-	-	64
Missouri	4,132	-	4,132	566	52,993	3,300	56,294	4	1	108
Nebraska	770	-	770	-	8,135	1,917	10,052	-	62	32
North Dakota	923	521	1,444	-	4,743	625	5,368	-	-	7
Ohio	675	175	850	-	69,562	18,265	87,827	-	-	110
Oklahoma	3,165	-	3,165	-	14,122	4,327	18,448	-	-	12
South Dakota	297	-	297	-	8,660	2,224	10,885	-	-	2
Tennessee	2,889	47	2,936	-	59,425	3,588	63,013	-	9	354
Wisconsin	3,537	69	3,606	-	49,275	3,992	53,267	-	-	83
PAD District III Total	212,010	3,750	215,760	4,161	280,940	158,733	439,672	531	6	1,898
Alabama	4,273	332	4,605	52	32,572	26,169	58,741	4	5	53
Arkansas	1,199	2,068	3,267	-	25,437	20,092	45,529	172	1	647
Louisiana	52,490	9	52,499	980	47,626	34,822	82,448	-	-	399
Mississippi	14,586	-	14,586	-	15,191	29,996	45,187	344	-	374
New Mexico	2,649	132	2,781	-	8,824	960	9,784	-	-	64
Texas	136,813	1,210	138,023	3,129	151,291	46,694	197,985	11	-	361
PAD District IV Total	11,330	1,734	13,063	-	80,440	19,876	100,316	-	209	108
Colorado	5,798	1,734	7,531	-	23,821	848	24,669	-	3	37
Idaho	1,509	-	1,509	-	11,228	8,290	19,518	-	8	51
Montana	543	-	543	-	7,196	7,663	14,858	-	-	-
Utah	3,236	-	3,236	-	21,616	1,830	23,445	-	97	14
Wyoming	244	-	244	-	16,580	1,247	17,826	-	101	6
PAD District V Total	226,631	5,602	232,233	3,405	290,611	151,784	442,394	-	2,218	466
Alaska	9,507	3,234	12,741	-	22,249	18,090	40,340	-	-	2
Arizona	2,079	16	2,095	-	23,920	2,955	26,874	-	-	2
California	126,577	-	126,577	879	171,235	29,578	200,812	-	27	278
Hawaii	43,296	-	43,296	160	8,823	-	8,823	-	2,191	-
Nevada	1,506	-	1,506	-	20,801	3,596	24,397	-	-	1
Oregon	1,194	7	1,201	-	15,294	44,884	60,178	-	-	144
Washington	42,471	2,344	44,816	2,366	28,289	52,681	80,970	-	-	38

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.

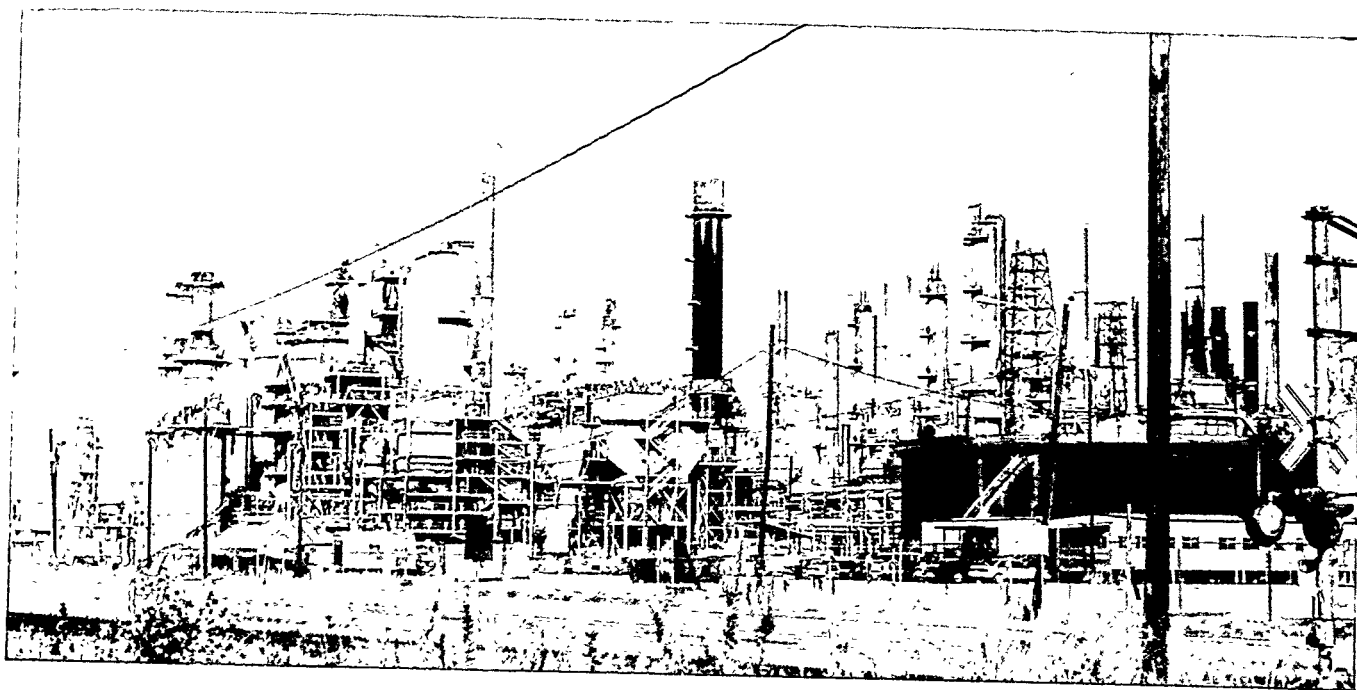
• Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1994, (DOE/EIA-0340(94)/1).

Adjusted Sales of Fuel Oil and Kerosene in 1994

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 1990 through 1994 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 increased slightly from 63.9 billion gallons in 1993 to 64.8 billion gallons in 1994. While adjusted sales of distillate increased 3.8 percent in 1994, residual fuel oil dropped 5.5 percent. Kerosene adjusted sales declined by 1.4 percent.



Sales to chemical plants are classified as industrial use.

Table 13. Adjusted Sales of Distillate Fuel Oil by End Use in the United States: 1990-1994
(Thousand Gallons)

End Use	Distillate Fuel Oil				
	1990	1991	1992	1993	1994
U.S. Total	46,305,126	44,775,360	45,791,466	46,621,806	48,477,156
Residential	6,022,902	5,993,482	6,238,133	6,577,146	6,335,853
Commercial	3,502,778	3,471,468	3,347,133	3,342,105	3,343,090
Industrial	2,452,322	2,326,519	2,218,843	1,965,557	2,091,611
Oil Company	968,764	910,761	785,120	763,068	703,946
Farm	3,293,792	3,285,639	3,504,846	3,238,675	3,198,640
Electric Utility	733,681	590,801	468,795	586,845	755,219
Railroad	3,210,111	3,026,292	3,217,231	2,906,998	3,063,441
Vessel Bunkering	2,197,004	2,167,640	2,240,170	2,043,745	2,026,899
On-Highway Diesel	21,360,477	20,485,364	21,374,872	22,758,842	24,442,609
Military	784,401	828,733	650,178	482,773	526,563
Off-Highway Diesel	1,776,352	1,686,262	1,739,068	1,953,640	1,988,481
All Other	2,541	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 1990-1994.

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

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

• Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1990-1994, (DOE/EIA-0340(90)/1 - (94)/1).



More diesel is used for on-highway use than for any other use.

Table 14. Adjusted Sales of Residual Fuel Oil by End Use in the United States: 1990-1994
(Thousand Gallons)

End Use	Residual Fuel Oil				
	1990	1991	1992	1993	1994
U.S. Total	18,837,882	17,750,250	16,816,674	16,559,004	15,648,654
Commercial	1,503,301	1,426,656	1,289,987	1,217,796	1,171,495
Industrial	2,227,855	1,938,473	2,332,911	2,823,049	2,579,494
Oil Company	314,358	301,511	297,332	316,372	267,921
Electric Utility	8,433,489	7,169,599	5,587,235	5,841,192	5,609,752
Vessel Bunkering	6,248,095	6,786,055	7,199,078	6,269,882	5,944,838
Military	81,992	120,204	100,684	86,109	68,368
All Other	28,791	7,752	9,448	4,604	6,745

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 1990-1994.

• 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."

• For 1990, military data for residual fuel oil are based on the Defense Fuel Supply Center's "DEIS Report." EIA-821 survey results are used for 1991 through 1994.

• Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1990-1994, (DOE/EIA-0340(90)/1 - (94)/1).

Table 15. Adjusted Sales of Kerosene by End Use in the United States: 1990-1994
(Thousand Gallons)

End Use	Kerosene				
	1990	1991	1992	1993	1994
U.S. Total	652,008	709,716	636,426	760,788	750,330
Residential	439,870	491,929	481,511	560,103	480,916
Commercial	95,737	97,186	82,398	103,996	144,142
Industrial	76,687	76,055	46,099	58,190	86,629
Farm	21,934	24,868	20,036	27,695	27,686
All Other	17,780	19,678	6,382	10,805	10,957

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 1994 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, 1990-1994, (DOE/EIA-0340(90)/1 - (94)/1).

Table 16. Adjusted Sales of Distillate Fuel Oil by End Use, 1993 and 1994

(Thousand Gallons)

Destination	Residential		Commercial		Industrial	
	1993	1994	1993	1994	1993	1994
U.S. Total	6,577,146	6,335,853	3,342,105	3,343,090	1,965,557	2,091,611
PAD District I Total	5,364,780	5,135,439	2,267,328	2,205,780	675,438	629,893
Subdistrict IA Total	2,078,564	1,990,851	573,671	552,211	109,548	104,895
Connecticut	579,658	526,930	107,600	103,540	20,773	23,283
Maine	240,137	236,631	94,928	96,141	24,344	29,558
Massachusetts	861,491	828,893	265,848	232,689	40,319	28,120
New Hampshire	160,096	159,963	47,138	53,640	7,907	8,621
Rhode Island	137,652	147,504	26,841	33,919	8,994	9,543
Vermont	99,530	90,930	31,317	32,282	7,210	5,771
Subdistrict IB Total	2,840,724	2,734,203	1,282,171	1,288,376	284,792	247,322
Delaware	47,642	49,474	13,954	10,853	7,658	6,944
District of Columbia	6,897	5,594	33,576	38,069	118	66
Maryland	219,510	209,053	112,842	128,442	25,635	27,531
New Jersey	484,109	517,534	235,230	208,985	48,390	48,681
New York	1,204,815	1,122,298	634,713	611,975	61,228	45,032
Pennsylvania	877,752	830,250	251,856	290,053	141,764	119,068
Subdistrict IC Total	445,492	410,385	411,487	365,193	281,098	277,676
Florida	13,407	10,444	129,126	91,858	39,396	39,014
Georgia	9,885	4,727	47,575	43,417	30,828	27,635
North Carolina	155,310	136,622	79,165	82,147	51,707	52,778
South Carolina	34,951	28,017	35,635	27,314	23,176	16,672
Virginia	208,103	206,078	101,656	103,331	38,159	37,853
West Virginia	23,836	24,498	18,328	17,125	97,833	103,725
PAD District II Total	989,287	991,741	563,907	589,602	556,374	685,255
Illinois	31,105	33,860	83,666	92,873	49,266	55,409
Indiana	88,566	76,644	67,959	64,412	73,889	95,796
Iowa	34,451	40,817	14,952	16,395	12,288	12,332
Kansas	1,145	1,139	27,050	20,910	11,454	8,917
Kentucky	32,691	34,239	27,793	41,448	131,138	176,657
Michigan	174,122	169,100	61,798	60,256	31,561	38,742
Minnesota	134,704	141,937	27,402	37,883	39,519	50,438
Missouri	17,373	14,818	48,160	50,087	19,723	22,273
Nebraska	7,035	6,754	12,827	15,187	5,502	4,239
North Dakota	31,540	30,734	6,009	8,065	7,298	5,118
Ohio	187,711	205,280	58,073	62,952	101,060	115,362
Oklahoma	10	6	13,607	11,026	10,224	13,690
South Dakota	24,841	22,486	10,394	11,141	9,021	16,189
Tennessee	8,592	12,680	39,305	42,208	24,417	32,967
Wisconsin	215,402	201,247	64,913	54,756	30,015	37,126
PAD District III Total	1,158	1,745	219,071	232,299	337,276	341,795
Alabama	608	545	38,515	44,897	82,716	99,533
Arkansas	28	41	17,889	18,258	13,043	11,612
Louisiana	3	526	36,300	36,295	46,993	69,098
Mississippi	123	45	13,811	18,125	26,330	27,659
New Mexico	257	332	14,243	8,880	15,352	11,315
Texas	139	256	98,315	105,844	152,842	122,577
PAD District IV Total	46,887	38,584	78,550	107,641	160,827	183,558
Colorado	1,386	1,070	31,855	51,143	30,752	25,143
Idaho	25,960	21,982	14,213	18,512	12,369	26,361
Montana	11,198	7,931	8,143	7,933	38,462	37,839
Utah	6,213	4,729	15,361	20,296	32,779	24,797
Wyoming	2,130	2,871	8,978	9,756	46,465	69,418
PAD District V Total	175,035	168,345	213,248	207,769	235,643	251,110
Alaska	53,601	52,604	50,827	49,644	14,264	13,111
Arizona	224	150	7,027	10,603	43,525	44,719
California	6,493	6,212	66,780	63,103	39,502	48,160
Hawaii	55	47	11,724	10,548	2,824	2,101
Nevada	7,518	6,325	25,537	22,129	91,183	86,498
Oregon	43,476	39,140	23,014	21,500	22,126	21,691
Washington	63,668	63,867	28,339	30,243	22,217	34,833

See footnotes at end of table.

Table 16. Adjusted Sales of Distillate Fuel Oil by End Use, 1993 and 1994 (Continued)

(Thousand Gallons)

Destination	Oil Company		Farm		Electric Utility	
	1993	1994	1993	1994	1993	1994
U.S. Total	763,068	703,946	3,238,675	3,198,640	586,845	755,219
PAD District I Total	13,045	10,733	386,545	307,090	275,101	401,459
Subdistrict IA Total	1,304	1,293	22,981	17,770	20,182	28,681
Connecticut	455	359	5,576	4,049	5,095	3,039
Maine	52	74	4,863	5,232	397	869
Massachusetts	484	580	3,369	2,402	11,616	20,584
New Hampshire	40	-	1,449	1,403	570	1,297
Rhode Island	242	265	618	526	2,041	2,009
Vermont	30	15	7,107	4,159	463	884
Subdistrict IB Total	6,634	4,641	135,706	103,686	114,061	213,882
Delaware	291	268	3,883	3,908	3,910	6,734
District of Columbia	-	-	-	-	20,812	36,208
Maryland	654	634	21,160	17,369	24,181	37,419
New Jersey	2,216	1,947	6,743	8,279	12,302	20,248
New York	1,874	780	60,279	43,516	16,897	30,168
Pennsylvania	1,599	1,013	43,641	30,613	35,958	83,106
Subdistrict IC Total	5,107	4,799	227,858	185,633	140,859	158,895
Florida	1,212	999	62,336	50,668	76,361	65,289
Georgia	510	791	57,623	50,971	10,202	11,106
North Carolina	111	131	42,201	35,164	14,603	25,797
South Carolina	70	1	16,773	12,521	7,354	14,161
Virginia	1,520	1,227	44,832	32,107	14,756	24,980
West Virginia	1,684	1,652	4,092	4,202	17,582	17,561
PAD District II Total	73,383	74,215	1,703,797	1,833,710	113,100	152,275
Illinois	1,656	1,047	177,430	186,479	8,388	12,851
Indiana	3,037	2,874	83,866	82,203	10,735	8,443
Iowa	1	1	221,011	241,258	3,030	4,036
Kansas	4,824	5,513	174,820	185,850	3,883	5,083
Kentucky	2,071	683	54,872	48,455	13,696	17,001
Michigan	4,639	3,567	89,514	79,363	12,710	19,398
Minnesota	1	8	166,446	177,349	4,179	5,241
Missouri	94	5	55,691	64,700	5,291	7,820
Nebraska	9	82	187,378	231,905	1,356	2,138
North Dakota	6,846	4,785	106,112	120,104	2,983	3,939
Ohio	3,719	3,817	83,877	87,585	25,981	31,528
Oklahoma	46,271	51,746	59,326	61,315	1,277	530
South Dakota	52	42	88,540	90,803	642	2,005
Tennessee	133	37	47,111	57,998	7,401	24,357
Wisconsin	30	7	107,801	118,342	11,547	7,906
PAD District III Total	581,244	550,262	622,359	579,484	49,569	44,337
Alabama	8,146	14,325	41,785	36,677	7,593	11,927
Arkansas	4,261	3,825	94,722	85,624	12,273	10,507
Louisiana	306,126	337,020	66,308	71,318	14,188	4,801
Mississippi	8,266	11,875	79,435	84,026	1,938	2,860
New Mexico	13,314	11,920	17,004	17,894	963	554
Texas	241,131	171,296	323,105	283,946	12,615	13,689
PAD District IV Total	52,033	33,414	227,862	192,481	5,764	7,113
Colorado	14,136	14,948	72,386	63,064	1,478	1,484
Idaho	-	-	65,957	57,277	86	58
Montana	500	635	56,569	40,090	53	105
Utah	6,671	7,895	17,118	15,692	1,280	3,228
Wyoming	30,726	9,936	15,832	16,358	2,866	2,238
PAD District V Total	43,364	35,322	298,112	285,875	143,310	150,035
Alaska	32,651	25,122	116	33	40,087	41,361
Arizona	151	251	11,900	13,273	1,012	2,809
California	10,254	9,213	202,780	197,245	5,287	4,301
Hawaii	79	480	8,003	6,604	93,429	97,315
Nevada	120	89	3,640	4,513	1,259	2,520
Oregon	19	2	30,848	28,846	824	1,028
Washington	90	164	40,825	35,361	1,411	700

See footnotes at end of table.

Table 16. Adjusted Sales of Distillate Fuel Oil by End Use, 1993 and 1994 (Continued)

(Thousand Gallons)

Destination	Railroad		Vessel Bunkering		On-Highway	
	1993	1994	1993	1994	1993	1994
U.S. Total	2,906,998	3,063,441	2,043,745	2,026,899	22,758,842	24,442,609
PAD District I Total	440,775	493,382	517,105	443,254	6,844,848	7,833,800
Subdistrict IA Total	20,143	30,246	85,228	68,927	741,171	769,320
Connecticut	1,998	5,469	3,391	2,792	195,314	176,778
Maine	8,134	8,737	17,823	21,178	114,357	127,602
Massachusetts	7,896	15,518	54,090	35,615	270,293	294,788
New Hampshire	441	198	1,055	420	53,374	55,727
Rhode Island	409	11	8,507	8,575	37,969	41,559
Vermont	1,265	314	363	347	69,864	72,866
Subdistrict IB Total	170,355	188,641	136,484	124,361	2,819,157	2,987,381
Delaware	1,374	547	11,297	1,776	54,602	61,356
District of Columbia	4,534	5,407	2	56	20,663	21,565
Maryland	28,797	27,445	12,480	12,460	339,906	306,348
New Jersey	68,400	82,758	75,732	78,826	459,725	554,233
New York	22,364	12,039	15,800	12,860	862,697	906,022
Pennsylvania	44,886	60,444	21,173	18,383	1,081,564	1,137,857
Subdistrict IC Total	250,277	274,496	295,394	249,966	3,284,520	4,077,099
Florida	65,987	82,820	150,270	129,176	391,250	878,915
Georgia	49,009	60,877	31,489	5,442	994,161	1,038,821
North Carolina	51,473	51,337	15,729	14,213	659,667	760,596
South Carolina	7,107	8,016	13,316	2,570	405,925	516,634
Virginia	58,849	56,869	32,994	38,469	623,277	676,118
West Virginia	17,852	14,577	51,595	60,096	210,240	206,015
PAD District II Total	1,127,680	1,242,098	353,769	399,546	8,031,175	8,101,108
Illinois	121,571	138,982	51,749	69,695	1,003,542	740,451
Indiana	155,755	179,542	12,733	13,955	846,955	933,435
Iowa	51,341	54,657	3,306	4,783	344,722	372,559
Kansas	113,753	108,993	-	-	317,514	294,362
Kentucky	92,008	108,555	109,478	125,474	677,597	582,087
Michigan	36,432	56,188	8,292	8,403	720,010	724,072
Minnesota	101,339	121,882	3,626	2,582	371,114	415,879
Missouri	15,553	16,030	54,931	61,705	684,238	725,701
Nebraska	103,155	105,121	-	-	257,871	281,594
North Dakota	38,722	44,243	-	-	108,405	124,796
Ohio	117,760	133,925	8,350	10,001	990,340	1,064,220
Oklahoma	107,935	88,859	3	201	431,518	476,271
South Dakota	4,021	5,015	-	-	113,032	133,800
Tennessee	48,359	29,630	99,210	99,676	646,911	674,143
Wisconsin	19,977	50,477	2,091	3,072	517,406	557,738
PAD District III Total	795,800	731,702	881,819	891,570	3,679,524	4,046,337
Alabama	58,401	61,760	81,442	80,451	581,516	649,271
Arkansas	44,999	71,687	2,382	2,636	425,711	467,619
Louisiana	36,810	30,618	423,900	492,519	405,567	437,193
Mississippi	32,547	46,167	55,492	41,237	340,836	352,785
New Mexico	22,699	16,485	-	-	239,050	222,791
Texas	600,345	504,985	318,604	274,727	1,686,844	1,916,678
PAD District IV Total	302,144	345,273	130	70	956,546	975,232
Colorado	89,375	104,832	-	-	260,723	258,390
Idaho	23,867	33,109	102	42	162,865	157,989
Montana	61,117	78,145	-	-	138,049	154,384
Utah	41,466	37,819	28	27	189,182	208,592
Wyoming	86,319	91,367	-	-	205,727	195,877
PAD District V Total	240,598	250,985	290,922	292,460	3,246,749	3,486,132
Alaska	3,207	2,703	89,912	83,481	98,938	53,142
Arizona	10,212	4,996	16	10	474,134	456,123
California	124,305	127,994	54,032	78,655	1,824,363	1,985,649
Hawaii	11	-	56,065	41,684	25,564	30,649
Nevada	1,147	8,116	-	-	174,537	172,148
Oregon	65,863	68,723	25,532	25,328	329,762	343,909
Washington	35,853	38,452	65,364	63,301	319,451	444,512

See footnotes at end of table.

Table 16. Adjusted Sales of Distillate Fuel Oil by End Use, 1993 and 1994 (Continued)
(Thousand Gallons)

Destination	Military		Off-Highway		All Other		Total	
	1993	1994	1993	1994	1993	1994	1993	1994
U.S. Total	482,773	526,563	1,953,640	1,988,481	2,411	804	46,621,806	48,477,156
PAD District I Total	89,513	105,428	498,239	476,285	161	28	17,372,880	18,042,570
Subdistrict IA Total	17,448	30,210	63,646	57,016	26	9	3,733,912	3,651,430
Connecticut	1,909	2,424	7,705	4,228	—	9	929,474	852,899
Maine	6,979	19,169	23,552	24,491	—	—	535,567	569,683
Massachusetts	2,640	4,091	14,685	15,930	—	—	1,532,731	1,479,210
New Hampshire	274	758	8,328	5,287	26	—	280,697	287,313
Rhode Island	5,325	3,634	2,272	2,481	—	—	230,871	250,025
Vermont	321	133	7,103	4,600	—	—	224,573	212,300
Subdistrict IB Total	28,610	31,706	176,794	168,400	—	17	7,995,486	8,092,616
Delaware	1,013	858	3,474	3,200	—	—	149,097	145,918
District of Columbia	686	2,813	521	459	—	—	87,809	110,238
Maryland	14,386	17,705	27,549	25,622	—	14	827,098	810,041
New Jersey	4,124	600	29,710	34,523	—	—	1,426,681	1,556,613
New York	6,711	7,718	46,481	39,273	—	—	2,933,859	2,831,682
Pennsylvania	1,690	2,011	69,659	65,323	—	4	2,570,942	2,638,125
Subdistrict IC Total	43,455	43,512	257,800	250,869	135	2	5,643,482	6,298,524
Florida	5,909	7,719	71,735	67,678	17	—	1,007,005	1,424,578
Georgia	5,157	9,120	72,136	66,238	—	—	1,308,575	1,319,143
North Carolina	3,518	5,064	37,614	42,643	81	—	1,111,180	1,206,490
South Carolina	4,523	800	25,635	26,980	—	—	574,466	653,686
Virginia	24,208	20,639	39,802	32,670	—	—	1,188,157	1,230,342
West Virginia	139	169	10,879	14,660	37	2	454,098	464,284
PAD District II Total	33,215	27,980	588,516	646,541	476	197	14,134,680	14,744,268
Illinois	2,165	373	69,185	78,276	—	170	1,599,722	1,410,466
Indiana	1,414	1,017	38,896	35,452	—	—	1,383,804	1,493,774
Iowa	221	167	24,821	26,546	—	—	710,146	773,552
Kansas	3,812	4,605	23,078	25,660	—	—	681,333	661,031
Kentucky	3,954	2,485	32,552	42,622	—	14	1,177,850	1,179,721
Michigan	2,021	1,087	62,607	76,631	—	9	1,203,706	1,236,817
Minnesota	489	201	35,815	41,189	182	—	884,814	994,589
Missouri	2,918	4,335	41,900	59,063	214	4	946,086	1,026,541
Nebraska	379	808	13,688	10,547	—	—	589,201	658,374
North Dakota	918	1,515	3,633	5,632	—	—	312,467	348,931
Ohio	4,804	892	85,139	92,147	26	—	1,666,842	1,807,709
Oklahoma	2,399	3,321	15,737	19,356	—	—	688,307	726,322
South Dakota	1,681	311	8,228	11,420	—	—	260,450	293,212
Tennessee	4,335	3,080	70,510	66,113	54	—	996,339	1,042,888
Wisconsin	1,704	3,783	62,728	55,887	—	—	1,033,614	1,090,342
PAD District III Total	280,685	234,953	482,546	478,783	985	579	7,932,036	8,133,846
Alabama	6,408	5,015	59,865	63,966	—	4	966,995	1,068,369
Arkansas	1,448	3,558	47,402	49,579	53	187	664,209	725,131
Louisiana	55,618	57,169	94,742	89,782	—	—	1,486,555	1,626,340
Mississippi	14,672	15,883	42,674	49,206	925	375	617,048	650,244
New Mexico	2,763	3,028	17,915	10,654	7	—	343,567	303,854
Texas	199,776	150,301	219,947	215,596	—	12	3,853,663	3,759,908
PAD District IV Total	13,046	14,808	114,029	113,711	54	—	1,957,872	2,011,884
Colorado	5,637	8,537	34,895	27,962	17	—	542,640	556,574
Idaho	2,143	1,710	17,712	22,124	37	—	325,310	339,163
Montana	518	615	19,343	16,842	—	—	333,952	344,521
Utah	4,482	3,668	20,162	26,576	—	—	334,742	353,320
Wyoming	266	277	21,918	20,207	—	—	421,228	418,306
PAD District V Total	66,313	143,395	270,310	273,161	733	—	5,224,338	5,544,588
Alaska	7,458	7,867	19,003	24,908	—	—	410,065	353,975
Arizona	1,415	1,294	16,065	16,594	—	—	565,681	550,823
California	30,936	78,156	115,199	123,994	714	—	2,480,644	2,722,682
Hawaii	3,000	26,734	8,014	5,448	—	—	208,770	221,611
Nevada	830	930	14,011	15,064	—	—	319,782	318,331
Oregon	792	742	49,106	37,158	—	—	591,362	588,065
Washington	21,882	27,672	48,913	49,996	20	—	648,034	789,101

^E Estimated data. Illinois' annual estimate is based on eleven months of data. Since 1994 data for Oregon were not available, estimate is based on 1993 data.

Dashes (-) = No data reported.

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

Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 1993 and 1994.

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

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

Table 17. Adjusted Sales of Residual Fuel Oil by End Use, 1993 and 1994

(Thousand Gallons)

Destination	Commercial		Industrial		Oil Company		Electric Utility	
	1993	1994	1993	1994	1993	1994	1993	1994
U.S. Total	1,217,796	1,171,495	2,823,049	2,579,494	316,372	267,921	5,841,192	5,609,752
PAD District I Total	1,176,135	1,121,600	2,047,748	1,867,639	131,307	112,945	5,001,458	5,038,199
Subdistrict IA Total	216,161	236,254	623,081	642,308	491	368	1,056,972	980,615
Connecticut	18,068	27,669	62,104	54,741	222	368	259,227	242,313
Maine	32,356	32,574	303,901	388,270	269	-	44,497	39,173
Massachusetts	113,412	126,510	154,730	115,211	-	-	668,421	605,810
New Hampshire	16,631	19,100	62,655	55,815	-	-	82,011	86,616
Rhode Island	28,096	26,727	26,290	19,887	-	-	2,816	6,703
Vermont	7,598	3,673	13,400	8,383	-	-	-	-
Subdistrict IB Total	930,781	858,382	475,023	433,173	129,551	111,677	1,659,445	1,811,705
Delaware	9,634	6,798	43,700	40,150	32,876	36,348	171,087	142,162
District of Columbia	9,078	7,177	-	32	-	-	-	-
Maryland	8,464	9,170	53,640	52,059	789	770	208,243	303,595
New Jersey	87,382	88,990	109,431	103,583	4,989	3,039	103,393	201,349
New York	767,001	687,810	167,682	132,759	3,407	2,487	927,389	874,658
Pennsylvania	49,222	58,438	100,570	104,591	87,491	69,033	249,333	289,941
Subdistrict IC Total	29,193	26,964	949,645	792,158	1,264	901	2,285,040	2,245,879
Florida	6,271	5,731	228,627	193,035	119	78	2,141,358	2,121,674
Georgia	278	288	122,626	120,558	47	-	4,591	1,784
North Carolina	12,600	11,290	322,612	249,517	-	-	-	-
South Carolina	1,227	2,801	134,864	103,342	195	169	2,758	-
Virginia	7,963	6,642	119,208	104,782	903	653	136,333	122,422
West Virginia	854	212	21,709	20,925	-	-	-	-
PAD District II Total	25,123	22,957	424,140	377,669	103,285	89,967	99,373	144,774
Illinois	2,444	2,822	15,155	14,012	8,280	11,643	59,303	85,023
Indiana	1,657	1,716	61,097	74,170	50,324	43,064	-	-
Iowa	203	47	6,984	7,637	-	-	26	-
Kansas	1,308	102	11,793	5,805	1,458	1,590	163	57
Kentucky	105	77	6,714	8,314	7,894	5,510	-	-
Michigan	353	144	41,380	36,621	771	4,344	26,669	50,739
Minnesota	5,884	6,790	35,852	29,834	12,940	9,761	-	-
Missouri	340	834	44,411	19,622	-	-	13,213	8,589
Nebraska	837	800	11,335	8,192	-	-	-	-
North Dakota	703	624	4,835	7,410	11,933	6,423	-	163
Ohio	1,177	319	87,668	78,427	4,212	3,790	-	203
Oklahoma	-	-	30,954	23,228	-	-	-	-
South Dakota	31	259	5,002	3,485	-	-	-	-
Tennessee	1,473	1,377	20,215	17,970	-	-	-	-
Wisconsin	8,609	7,045	40,746	42,942	5,474	3,842	-	-
PAD District III Total	34	66	181,017	183,026	2,276	755	268,329	78,857
Alabama	-	33	33,922	45,544	-	-	-	-
Arkansas	27	-	9,564	11,351	-	-	-	1,755
Louisiana	7	-	13,624	9,769	-	-	29,998	4,429
Mississippi	-	-	11,292	7,298	-	-	223,354	69,197
New Mexico	-	-	7,978	7,532	-	-	-	-
Texas	-	33	104,637	101,532	2,276	755	14,977	3,476
PAD District IV Total	3,941	1,303	15,453	10,586	28,658	21,047	-	595
Colorado	11	-	490	48	-	4	-	-
Idaho	1,307	291	355	584	-	-	-	595
Montana	217	144	7,490	138	22,431	15,515	-	-
Utah	2,405	834	3,973	8,244	6,227	5,528	-	-
Wyoming	-	33	3,144	1,572	-	-	-	-
PAD District V Total	12,563	25,568	154,691	140,574	50,846	43,207	472,032	347,328
Alaska	-	-	13,252	14,583	-	-	-	-
Arizona	-	-	5,410	1,907	2,304	-	-	-
California	803	329	61,605	56,564	5,469	475	35,422	15,927
Hawaii	1,510	18,527	10,487	12,078	35,391	36,239	415,365	325,737
Nevada	-	-	4,439	5,947	-	-	21,245	5,551
Oregon	7,643	4,681	29,580	17,701	-	-	-	113
Washington	2,607	2,031	29,917	31,794	7,682	6,492	-	-

See footnotes at end of table.

Table 17. Adjusted Sales of Residual Fuel Oil by End Use, 1993 and 1994 (Continued)

(Thousand Gallons)

Destination	Vessel Bunkering		Military		All Other		Total	
	1993	1994	1993	1994	1993	1994	1993	1994
U.S. Total	6,269,882	5,944,838	86,109	68,368	4,604	6,745	16,559,004	15,648,654
PAD District I Total	1,530,370	1,324,807	77,712	59,394	2,472	3,915	9,967,201	9,528,540
Subdistrict IA Total	18,100	19,859	12,032	7,454	767	298	1,927,604	1,887,155
Connecticut	-	-	1,372	957	767	292	341,759	326,340
Maine	5,035	5,041	7,426	4,912	-	6	393,485	469,975
Massachusetts	12,764	13,998	2,510	1,584	-	-	951,837	863,114
New Hampshire	58	408	-	-	-	-	161,355	161,939
Rhode Island	244	412	724	-	-	-	58,170	53,729
Vermont	-	-	-	-	-	-	20,998	12,057
Subdistrict IB Total	762,736	715,148	36,439	35,691	376	512	3,994,352	3,866,329
Delaware	50,032	52,384	-	1,080	230	-	307,559	278,921
District of Columbia	-	-	-	-	-	-	9,078	7,209
Maryland	38,359	25,544	18,131	16,163	-	-	327,625	407,302
New Jersey	274,900	261,035	9,124	8,013	8	-	589,227	666,008
New York	137,123	126,017	5,426	7,712	-	100	2,008,028	1,831,542
Pennsylvania	262,322	250,169	3,757	2,723	139	411	752,834	775,347
Subdistrict IC Total	749,534	589,800	29,241	16,250	1,329	3,105	4,045,245	3,675,056
Florida	512,477	428,809	2,658	2,591	1,245	2,950	2,892,756	2,754,867
Georgia	112,332	79,037	-	-	-	7	239,874	201,674
North Carolina	10,176	1,412	8,554	7,572	-	44	353,941	269,835
South Carolina	20,141	1,729	7,617	1,474	84	104	166,885	109,619
Virginia	94,408	78,814	10,411	4,612	-	-	369,227	317,924
West Virginia	-	-	-	-	-	-	22,563	21,137
PAD District II Total	21,812	19,528	1,324	625	901	144	675,959	655,664
Illinois	1,633	2,140	-	-	-	-	86,814	115,639
Indiana	14,880	9,548	-	-	-	-	127,958	128,497
Iowa	-	-	-	-	-	-	7,213	7,684
Kansas	-	-	-	-	-	7	14,722	7,562
Kentucky	-	-	-	-	-	-	14,713	13,901
Michigan	3,247	4,153	-	-	81	57	72,501	96,058
Minnesota	21	97	-	-	-	-	54,697	46,483
Missouri	167	300	1,324	625	-	1	59,455	29,971
Nebraska	-	-	-	-	-	68	12,172	9,060
North Dakota	-	-	-	-	-	-	17,471	14,621
Ohio	718	2,699	-	-	-	-	93,775	85,438
Oklahoma	-	-	-	-	-	-	30,954	23,228
South Dakota	-	-	-	-	78	-	5,111	3,744
Tennessee	675	107	-	-	742	10	23,105	19,464
Wisconsin	470	485	-	-	-	-	55,299	54,314
PAD District III Total	2,340,593	2,067,345	1,927	4,592	-	7	2,794,175	2,334,648
Alabama	143,653	99,181	-	57	-	6	177,575	144,821
Arkansas	-	-	-	-	-	1	9,591	13,106
Louisiana	1,177,405	1,011,024	925	1,081	-	-	1,221,959	1,026,302
Mississippi	141,668	151,394	-	-	-	-	376,314	227,889
New Mexico	-	-	-	-	-	-	7,978	7,532
Texas	877,867	805,747	1,002	3,453	-	-	1,000,758	914,996
PAD District IV Total	-	54	-	-	9	231	48,060	33,815
Colorado	-	54	-	-	-	3	502	109
Idaho	-	-	-	-	-	9	1,662	1,479
Montana	-	-	-	-	-	-	30,139	15,798
Utah	-	-	-	-	9	107	12,614	14,713
Wyoming	-	-	-	-	-	112	3,144	1,717
PAD District V Total	2,377,107	2,533,105	5,146	3,758	1,222	2,448	3,073,609	3,095,987
Alaska	5,196	4,289	-	-	-	-	18,448	18,872
Arizona	-	-	-	-	-	-	7,714	1,907
California	1,434,971	1,615,496	1,397	970	246	30	1,539,915	1,689,791
Hawaii	117,021	125,573	607	177	941	2,418	581,322	520,750
Nevada	-	-	-	-	-	-	25,685	11,499
Oregon	166,446	165,460	-	-	35	-	203,704	187,955
Washington	653,473	622,286	3,142	2,611	-	-	696,822	665,214

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 1993 and 1994.

• 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, 1993 and 1994, (DOE/EIA-0340(93)/1 - (94)/1).

Table 18. Adjusted Sales of Kerosene by End Use, 1993 and 1994

(Thousand Gallons)

Destination	Residential		Commercial		Industrial	
	1993	1994	1993	1994	1993	1994
U.S. Total	560,103	480,916	103,996	144,142	58,190	86,629
PAD District I Total	444,720	367,746	76,975	118,101	34,226	65,489
Subdistrict IA Total	76,731	68,971	16,878	15,420	3,673	5,495
Connecticut	8,845	6,811	1,867	2,153	789	1,782
Maine	31,105	31,846	7,294	6,370	1,764	2,485
Massachusetts	10,493	9,174	4,742	4,194	385	482
New Hampshire	14,754	11,859	1,450	1,703	298	424
Rhode Island	1,660	1,605	101	202	330	309
Vermont	9,874	7,676	1,423	799	108	13
Subdistrict IB Total	170,610	154,114	43,942	72,001	17,716	50,795
Delaware	4,436	4,028	315	317	1,084	6,169
District of Columbia	208	187	186	251	-	-
Maryland	21,381	16,493	3,582	8,931	462	1,336
New Jersey	9,366	12,226	6,709	25,849	5,534	24,615
New York	65,710	58,612	25,876	22,607	4,999	12,603
Pennsylvania	69,510	62,567	7,275	14,047	5,637	6,071
Subdistrict IC Total	197,379	144,660	16,154	30,680	12,837	9,199
Florida	9,159	5,232	2,255	3,212	355	132
Georgia	5,724	3,365	2,724	6,251	783	555
North Carolina	79,286	54,933	2,119	14,288	4,887	2,604
South Carolina	27,104	15,604	845	1,100	3,236	2,786
Virginia	62,532	52,773	6,681	4,231	1,819	944
West Virginia	13,575	12,753	1,531	1,598	1,756	2,178
PAD District II Total	102,383	99,015	21,137	21,118	15,777	13,517
Illinois	3,388	3,030	1,345	2,105	2,200	2,001
Indiana	10,647	11,554	2,035	2,814	617	857
Iowa	1,387	791	286	537	319	302
Kansas	823	320	288	161	96	67
Kentucky	16,635	16,396	3,281	3,048	3,190	2,699
Michigan	14,909	13,526	1,067	1,374	1,068	1,464
Minnesota	1,492	1,893	366	587	92	141
Missouri	1,571	1,006	560	604	114	255
Nebraska	443	220	182	223	36	21
North Dakota	325	240	49	33	9	8
Ohio	35,218	29,785	8,440	6,064	5,906	4,544
Oklahoma	294	214	214	164	385	64
South Dakota	238	159	24	13	6	3
Tennessee	13,045	18,456	2,544	3,051	1,287	778
Wisconsin	1,968	1,425	455	341	454	312
PAD District III Total	5,022	3,531	3,373	2,629	5,599	5,438
Alabama	1,818	1,220	565	449	876	1,274
Arkansas	418	271	217	179	88	63
Louisiana	312	214	1,072	530	917	880
Mississippi	1,034	847	249	109	1,336	808
New Mexico	168	144	242	125	240	128
Texas	1,272	835	1,029	1,238	2,142	2,284
PAD District IV Total	2,023	2,253	494	372	1,138	1,017
Colorado	1,459	1,664	296	190	292	36
Idaho	64	93	6	79	17	7
Montana	291	237	38	35	-	4
Utah	143	227	147	65	55	43
Wyoming	66	33	7	3	774	927
PAD District V Total	5,955	8,371	2,016	1,922	1,449	1,169
Alaska	22	426	8	7	10	13
Arizona	43	75	49	35	17	10
California	2,833	2,827	796	524	850	807
Hawaii	1	1	26	5	15	19
Nevada	446	186	134	105	5	32
Oregon	772	2,099	450	588	355	141
Washington	1,837	2,755	553	658	197	147

See footnotes at end of table.

Table 18. Adjusted Sales of Kerosene by End Use, 1993 and 1994 (Continued)

(Thousand Gallons)

Destination	Farm		All Other		Total	
	1993	1994	1993	1994	1993	1994
U.S. Total	27,695	27,686	10,805	10,957	760,788	750,330
PAD District I Total	11,461	10,070	5,473	6,055	572,856	567,460
Subdistrict IA Total	663	1,027	576	591	98,522	91,504
Connecticut	43	35	159	129	11,703	10,910
Maine	302	471	134	87	40,599	41,258
Massachusetts	82	24	181	229	15,882	14,102
New Hampshire	69	91	30	78	16,602	14,154
Rhode Island	1	-	7	1	2,099	2,118
Vermont	167	405	66	68	11,637	8,962
Subdistrict IB Total	7,191	3,995	2,880	4,885	242,340	285,790
Delaware	90	21	84	73	6,009	10,609
District of Columbia	-	-	-	-	394	438
Maryland	651	467	26	982	26,103	28,210
New Jersey	35	23	160	436	21,804	63,149
New York	4,596	1,170	514	1,127	101,694	96,119
Pennsylvania	1,818	2,313	2,096	2,267	86,336	87,265
Subdistrict IC Total	3,607	5,048	2,017	579	231,994	190,167
Florida	61	39	118	153	11,948	8,767
Georgia	30	29	112	5	9,373	10,206
North Carolina	1,075	902	693	13	88,059	72,741
South Carolina	69	362	659	37	31,913	19,890
Virginia	1,502	3,101	338	213	72,872	61,261
West Virginia	869	614	97	158	17,829	17,302
PAD District II Total	13,984	14,992	2,814	2,429	156,096	151,071
Illinois	309	610	167	679	7,409	8,425
Indiana	773	2,321	502	480	14,574	18,026
Iowa	981	862	21	11	2,993	2,503
Kansas	228	135	86	50	1,522	733
Kentucky	2,222	1,185	367	286	25,695	23,615
Michigan	864	914	1,093	151	19,000	17,428
Minnesota	525	2,943	49	64	2,524	5,628
Missouri	82	61	21	108	2,347	2,034
Nebraska	333	374	22	32	1,015	871
North Dakota	31	13	3	7	417	302
Ohio	7,049	4,125	185	110	56,798	44,627
Oklahoma	161	906	22	12	1,075	1,359
South Dakota	37	31	9	2	314	208
Tennessee	122	224	204	354	17,201	22,863
Wisconsin	268	287	65	83	3,210	2,448
PAD District III Total	1,232	1,579	1,809	1,898	17,035	15,075
Alabama	13	13	95	53	3,367	3,010
Arkansas	67	11	407	647	1,197	1,171
Louisiana	64	31	240	399	2,606	2,054
Mississippi	54	23	96	374	2,769	2,161
New Mexico	12	6	58	64	720	466
Texas	1,021	1,495	913	361	6,378	6,213
PAD District IV Total	188	117	84	108	3,927	3,867
Colorado	152	78	47	37	2,246	2,005
Idaho	16	4	-	51	103	234
Montana	1	13	-	-	330	289
Utah	17	18	24	14	386	367
Wyoming	2	3	13	6	862	972
PAD District V Total	829	929	624	466	10,874	12,857
Alaska	-	-	169	2	209	448
Arizona	9	4	27	2	146	127
California	681	610	325	278	5,485	5,048
Hawaii	1	1	-	-	44	27
Nevada	2	3	18	1	607	328
Oregon	126	155	24	144	1,728	3,127
Washington	9	155	60	38	2,656	3,752

Dashes (-) = No data reported.

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

Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 1993 and 1994.

• Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1993 and 1994, (DOE/EIA-0340(93)/1 - (94)/1).

Table 19. Adjusted Sales for Residential Use: Distillate Fuel Oil and Kerosene, 1994
(Thousand Gallons)

Destination	Distillate Fuel Oil			Kerosene
	No. 1	No. 2	Total	
U.S. Total	221,445	6,114,409	6,335,854	480,916
PAD District I Total	49,136	5,086,303	5,135,439	367,746
Subdistrict IA Total	12,553	1,978,298	1,990,851	68,971
Connecticut	268	526,662	526,930	6,811
Maine	1,827	234,804	236,631	31,846
Massachusetts	7,203	821,690	828,893	9,174
New Hampshire	763	159,200	159,963	11,859
Rhode Island	-	147,504	147,504	1,605
Vermont	2,492	88,439	90,931	7,676
Subdistrict IB Total	33,054	2,701,149	2,734,203	154,114
Delaware	-	49,474	49,474	4,028
District of Columbia	-	5,594	5,594	187
Maryland	1,093	207,960	209,053	16,493
New Jersey	17	517,517	517,534	12,226
New York	2,419	1,119,879	1,122,298	58,612
Pennsylvania	29,525	800,725	830,250	62,567
Subdistrict IC Total	3,529	406,856	410,385	144,660
Florida	329	10,115	10,444	5,232
Georgia	441	4,286	4,727	3,365
North Carolina	1,011	135,610	136,621	54,933
South Carolina	657	27,360	28,017	15,604
Virginia	-	206,078	206,078	52,773
West Virginia	1,091	23,408	24,499	12,753
PAD District II Total	118,491	873,250	991,741	99,015
Illinois	4,019	29,840	33,859	3,030
Indiana	12,550	64,094	76,644	11,554
Iowa	7,286	33,531	40,817	791
Kansas	469	669	1,138	320
Kentucky	4,094	30,146	34,240	16,396
Michigan	20,819	148,281	169,100	13,526
Minnesota	23,618	118,319	141,937	1,893
Missouri	2,606	12,212	14,818	1,006
Nebraska	1,674	5,079	6,753	220
North Dakota	6,313	24,421	30,734	240
Ohio	7,480	197,801	205,281	29,785
Oklahoma	2	4	6	214
South Dakota	6,125	16,360	22,485	159
Tennessee	1,815	10,865	12,680	18,456
Wisconsin	19,620	181,628	201,248	1,425
PAD District III Total	164	1,581	1,745	3,531
Alabama	109	436	545	1,220
Arkansas	-	41	41	271
Louisiana	-	526	526	214
Mississippi	2	43	45	847
New Mexico	44	288	332	144
Texas	9	248	257	835
PAD District IV Total	11,240	27,344	38,584	2,253
Colorado	257	813	1,070	1,664
Idaho	4,629	17,353	21,982	93
Montana	4,614	3,317	7,931	237
Utah	992	3,737	4,729	227
Wyoming	747	2,124	2,871	33
PAD District V Total	42,414	125,931	168,345	8,371
Alaska	22,187	30,417	52,604	426
Arizona	12	139	151	75
California	495	5,717	6,212	2,827
Hawaii	41	6	47	1
Nevada	566	5,759	6,325	186
Oregon	7,595	31,544	39,139	2,099
Washington	11,518	52,349	63,867	2,755

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.

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

Table 20. Adjusted Sales for Commercial Use: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 1994
(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	180,230	1,493,231	887,621	456,151	2,837,002	325,858	3,343,090	1,171,495	144,142
PAD District I Total	45,895	1,318,678	353,021	163,385	1,835,083	324,802	2,205,780	1,121,600	118,101
Subdistrict IA Total	1,994	417,324	46,463	21,377	485,164	65,053	552,211	236,254	15,420
Connecticut	967	82,020	9,404	2,337	93,761	8,812	103,540	27,669	2,153
Maine	311	83,162	6,411	4,017	93,590	2,241	96,141	32,574	6,370
Massachusetts	112	159,486	19,228	10,436	189,149	43,428	232,689	126,510	4,194
New Hampshire	187	41,891	4,012	1,825	47,727	5,726	53,640	19,100	1,703
Rhode Island	417	27,083	2,240	1,096	30,419	3,083	33,919	26,727	202
Vermont	-	23,682	5,169	1,667	30,518	1,764	32,282	3,673	799
Subdistrict IB Total	36,481	778,215	150,965	64,820	994,001	257,895	1,288,376	858,382	72,001
Delaware	-	8,720	932	607	10,259	594	10,853	6,798	317
District of Columbia	6,239	19,323	4,534	733	24,590	7,240	38,069	7,177	251
Maryland	4,283	89,368	16,595	15,861	121,825	2,334	128,442	9,170	8,931
New Jersey	76	138,992	24,407	14,185	177,585	31,324	208,985	88,990	25,849
New York	23,109	330,771	39,742	12,033	382,546	206,320	611,975	687,810	22,607
Pennsylvania	2,774	191,041	64,755	21,401	277,196	10,082	290,053	58,438	14,047
Subdistrict IC Total	7,421	123,138	155,592	77,188	355,918	1,854	365,193	26,964	30,680
Florida	1,229	7,773	67,118	15,607	90,499	130	91,858	5,731	3,212
Georgia	96	5,564	26,457	11,300	43,320	-	43,417	288	6,251
North Carolina	607	38,799	20,409	22,023	81,231	309	82,147	11,290	14,288
South Carolina	6	9,811	12,838	4,253	26,902	406	27,314	2,801	1,100
Virginia	5,223	55,035	23,431	18,752	97,219	889	103,331	6,642	4,231
West Virginia	259	6,155	5,339	5,253	16,747	119	17,125	212	1,598
PAD District II Total	74,945	128,506	233,304	152,315	514,125	532	589,602	22,957	21,118
Illinois	35,881	18,776	15,374	22,752	56,902	90	92,873	2,822	2,105
Indiana	4,441	16,902	27,602	15,402	59,906	65	64,412	1,716	2,814
Iowa	2,065	3,942	9,069	1,320	14,330	-	16,395	47	537
Kansas	2,678	645	9,187	8,399	18,232	-	20,910	102	161
Kentucky	1,255	7,826	22,714	9,532	40,073	119	41,448	77	3,048
Michigan	9,331	14,641	22,225	14,017	50,883	43	60,256	144	1,374
Minnesota	4,306	14,015	14,504	4,875	33,394	183	37,883	6,790	587
Missouri	2,361	2,727	19,858	25,109	47,694	31	50,087	834	604
Nebraska	2,642	1,039	4,394	7,113	12,546	-	15,187	800	223
North Dakota	1,259	2,535	3,263	1,007	6,806	-	8,065	624	33
Ohio	1,059	11,644	34,231	16,018	61,893	-	62,952	319	6,064
Oklahoma	91	533	7,083	3,320	10,936	-	11,026	-	164
South Dakota	2,406	5,099	2,522	1,114	8,735	-	11,141	259	13
Tennessee	454	4,481	24,130	13,143	41,755	-	42,208	1,377	3,051
Wisconsin	4,716	23,699	17,146	9,194	50,040	-	54,756	7,045	341
PAD District III Total	8,815	16,056	122,746	84,632	223,434	49	232,299	66	2,629
Alabama	-	3,488	26,760	14,650	44,897	-	44,897	33	449
Arkansas	-	6,608	6,328	5,272	18,209	49	18,258	-	179
Louisiana	720	1,298	8,534	25,744	35,576	-	36,295	-	530
Mississippi	-	1,430	8,931	7,764	18,125	-	18,125	-	109
New Mexico	158	165	5,863	2,695	8,722	-	8,880	-	125
Texas	7,937	3,068	66,330	28,508	97,907	-	105,844	33	1,238
PAD District IV Total	12,715	9,341	72,393	13,191	94,926	-	107,641	1,303	372
Colorado	5,572	1,645	38,775	5,151	45,571	-	51,143	-	190
Idaho	2,844	4,435	9,095	2,138	15,668	-	18,512	291	79
Montana	1,329	1,059	5,358	187	6,604	-	7,933	144	35
Utah	1,817	1,795	11,178	5,507	18,479	-	20,296	834	65
Wyoming	1,153	407	7,986	209	8,603	-	9,756	33	3
PAD District V Total	37,860	20,649	106,157	42,628	169,434	475	207,769	25,568	1,922
Alaska	30,748	8,740	1,042	8,677	18,459	437	49,644	-	7
Arizona	226	1,203	8,766	382	10,351	27	10,603	-	35
California	425	2,293	54,848	5,536	62,678	-	63,103	329	524
Hawaii	280	577	5,360	4,332	10,269	-	10,548	18,527	5
Nevada	636	914	17,194	3,385	21,492	-	22,129	-	105
Oregon	2,744	1,501	9,766	7,477	18,744	12	21,500	4,681	588
Washington	2,802	5,421	9,181	12,838	27,441	-	30,243	2,031	658

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.

• Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1994, (DOE/EIA-0340(94)/1).

Table 21. Adjusted Sales for Industrial Use: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 1994
(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	51,026	462,283	544,205	975,237	1,981,725	58,860	2,091,611	2,579,494	86,629
PAD District I Total	2,285	261,755	80,845	237,013	579,613	47,995	629,893	1,867,639	65,489
Subdistrict IA Total	98	76,334	7,102	2,837	86,273	18,524	104,895	642,308	5,495
Connecticut	-	14,393	922	618	15,933	7,351	23,283	54,741	1,782
Maine	62	28,182	691	425	29,298	198	29,558	388,270	2,485
Massachusetts	6	18,818	3,494	389	22,701	5,412	28,120	115,211	482
New Hampshire	30	4,906	1,203	758	6,868	1,723	8,621	55,815	424
Rhode Island	-	6,066	399	503	6,968	2,575	9,543	19,887	309
Vermont	-	3,969	393	144	4,505	1,265	5,771	8,383	13
Subdistrict IB Total	555	101,908	35,294	86,812	224,015	22,752	247,322	433,173	50,795
Delaware	-	3,298	3,045	488	6,831	112	6,944	40,150	6,169
District of Columbia	-	5	3	12	20	45	66	32	-
Maryland	395	11,073	4,285	10,960	26,318	818	27,531	52,059	1,336
New Jersey	20	27,948	1,056	9,379	38,383	10,278	48,681	103,583	24,615
New York	8	30,223	2,916	4,154	37,293	7,732	45,032	132,759	12,603
Pennsylvania	132	29,362	23,988	61,819	115,169	3,767	119,068	104,591	6,071
Subdistrict IC Total	1,631	83,513	38,449	147,364	269,326	6,719	277,676	792,158	9,199
Florida	16	1,500	13,971	20,886	36,357	2,641	39,014	193,035	132
Georgia	60	3,912	5,714	17,592	27,218	357	27,635	120,558	555
North Carolina	3	30,673	1,606	18,251	50,530	2,245	52,778	249,517	2,604
South Carolina	-	9,971	2,340	3,915	16,226	445	16,672	103,342	2,786
Virginia	138	21,248	4,052	11,478	36,778	937	37,853	104,782	944
West Virginia	1,413	16,210	10,766	75,241	102,217	94	103,725	20,925	2,178
PAD District II Total	26,993	162,297	116,594	373,170	652,061	6,200	685,255	377,669	13,517
Illinois	2,116	14,216	7,905	31,167	53,288	6	55,409	14,012	2,001
Indiana	3,078	41,174	11,069	40,427	92,671	48	95,796	74,170	857
Iowa	1,697	2,129	3,850	4,656	10,635	-	12,332	7,637	302
Kansas	967	918	3,540	3,492	7,949	-	8,917	5,805	67
Kentucky	137	11,353	19,922	144,719	175,995	525	176,657	8,314	2,699
Michigan	1,437	15,962	7,052	13,449	36,464	842	38,742	36,621	1,464
Minnesota	10,986	21,373	7,115	9,761	38,250	1,202	50,438	29,834	141
Missouri	894	3,644	4,984	12,429	21,057	322	22,273	19,622	255
Nebraska	226	139	682	3,192	4,013	-	4,239	8,192	21
North Dakota	1,002	2,764	725	627	4,116	-	5,118	7,410	8
Ohio	409	21,314	16,973	75,616	113,903	1,051	115,362	78,427	4,544
Oklahoma	40	6,570	4,036	3,043	13,650	-	13,690	23,228	64
South Dakota	1,859	605	13,226	415	14,247	83	16,189	3,485	3
Tennessee	-	4,862	9,974	16,238	31,074	1,893	32,967	17,970	778
Wisconsin	2,146	15,273	5,540	13,938	34,751	229	37,126	42,942	312
PAD District III Total	3,009	20,737	111,185	206,598	338,520	266	341,795	183,026	5,438
Alabama	-	8,220	20,922	70,391	99,533	-	99,533	45,544	1,274
Arkansas	-	14	1,948	9,651	11,612	-	11,612	11,351	63
Louisiana	-	505	32,129	36,465	69,098	-	69,098	9,769	880
Mississippi	-	4,142	11,834	11,417	27,393	266	27,659	7,298	808
New Mexico	2,743	35	7,428	1,110	8,573	-	11,315	7,532	128
Texas	267	7,821	36,925	77,565	122,311	-	122,577	101,532	2,284
PAD District IV Total	13,165	3,677	130,743	35,831	170,251	142	183,558	10,586	1,017
Colorado	793	325	17,309	6,717	24,350	-	25,143	48	36
Idaho	2,744	35	13,178	10,405	23,617	-	26,361	584	7
Montana	4,694	186	31,254	1,701	33,141	5	37,839	138	4
Utah	1,687	2,336	13,608	7,134	23,078	32	24,797	8,244	43
Wyoming	3,248	796	55,394	9,874	66,065	106	69,418	1,572	927
PAD District V Total	5,574	13,816	104,838	122,625	241,280	4,257	251,110	140,574	1,169
Alaska	1,875	4,852	2,647	3,737	11,236	-	13,111	14,583	13
Arizona	9	114	11,485	33,051	44,650	59	44,719	1,907	10
California	263	1,264	38,493	3,951	43,708	4,188	48,160	56,564	807
Hawaii	-	92	539	1,470	2,101	-	2,101	12,078	19
Nevada	3,025	127	30,024	53,310	83,462	10	86,496	5,947	32
Oregon	99	4,384	7,893	9,315	21,592	-	21,691	17,701	141
Washington	302	2,983	13,757	17,791	34,531	-	34,833	31,794	147

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.

• Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1994, (DOE/EIA-0340(94)/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, 1994
(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	3,062,436	136,204	3,198,640	27,686	755,219	5,609,752	703,946	267,921
PAD District I Total	271,782	35,308	307,090	10,070	401,459	5,038,199	10,733	112,945
Subdistrict IA Total	10,170	7,601	17,770	1,027	28,681	980,615	1,293	368
Connecticut	1,207	2,842	4,049	35	3,039	242,313	359	368
Maine	2,720	2,512	5,232	471	869	39,173	74	-
Massachusetts	2,026	376	2,402	24	20,584	605,810	580	-
New Hampshire	774	628	1,403	91	1,297	86,616	-	-
Rhode Island	492	34	526	-	2,009	6,703	265	-
Vermont	2,951	1,208	4,159	405	884	-	15	-
Subdistrict IB Total	84,133	19,553	103,686	3,995	213,882	1,811,705	4,641	111,677
Delaware	3,794	114	3,908	21	6,734	142,162	268	36,348
District of Columbia	-	-	-	-	36,208	-	-	-
Maryland	16,360	1,009	17,369	467	37,419	303,595	634	770
New Jersey	6,692	1,587	8,279	23	20,248	201,349	1,947	3,039
New York	34,124	9,393	43,516	1,170	30,168	874,658	780	2,487
Pennsylvania	23,163	7,450	30,613	2,313	83,106	289,941	1,013	69,033
Subdistrict IC Total	177,479	8,155	185,633	5,048	158,895	2,245,879	4,799	901
Florida	50,190	478	50,668	39	65,289	2,121,674	999	78
Georgia	50,957	14	50,971	29	11,106	1,784	791	-
North Carolina	29,440	5,724	35,164	902	25,797	-	131	-
South Carolina	12,249	273	12,521	362	14,161	-	1	169
Virginia	31,184	922	32,107	3,101	24,980	122,422	1,227	653
West Virginia	3,459	743	4,202	614	17,561	-	1,652	-
PAD District II Total	1,737,764	95,946	1,833,710	14,992	152,275	144,774	74,215	89,967
Illinois	179,136	7,342	186,479	610	12,851	85,023	1,047	11,643
Indiana	76,984	5,219	82,203	2,321	8,443	-	2,874	43,064
Iowa	228,374	12,884	241,258	862	4,036	-	1	-
Kansas	184,429	1,421	185,850	135	5,083	57	5,513	1,590
Kentucky	43,372	5,084	48,455	1,185	17,001	-	683	5,510
Michigan	67,479	11,885	79,363	914	19,398	50,739	3,567	4,344
Minnesota	159,181	18,168	177,349	2,943	5,241	-	8	9,761
Missouri	64,412	288	64,700	61	7,820	8,589	5	-
Nebraska	226,389	5,516	231,905	374	2,138	-	82	-
North Dakota	117,865	2,239	120,104	13	3,939	163	4,785	6,423
Ohio	79,299	8,286	87,585	4,125	31,528	203	3,817	3,790
Oklahoma	61,315	-	61,315	906	530	-	51,746	-
South Dakota	89,014	1,789	90,803	31	2,005	-	42	-
Tennessee	57,998	-	57,998	224	24,357	-	37	-
Wisconsin	102,518	15,825	118,342	287	7,906	-	7	3,842
PAD District III Total	579,347	137	579,484	1,579	44,337	78,857	550,262	755
Alabama	36,660	17	36,677	13	11,927	-	14,325	-
Arkansas	85,616	8	85,624	11	10,507	1,755	3,825	-
Louisiana	71,210	108	71,318	31	4,801	4,429	337,020	-
Mississippi	84,023	2	84,026	23	2,860	69,197	11,875	-
New Mexico	17,892	1	17,894	6	554	-	11,920	-
Texas	283,946	-	283,946	1,495	13,689	3,476	171,296	755
PAD District IV Total	190,689	1,792	192,481	117	7,113	595	33,414	21,047
Colorado	62,693	371	63,064	78	1,484	-	14,948	4
Idaho	56,963	313	57,277	4	58	595	-	-
Montana	39,100	990	40,090	13	105	-	635	15,515
Utah	15,599	93	15,692	18	3,228	-	7,895	5,528
Wyoming	16,333	25	16,358	3	2,238	-	9,936	-
PAD District V Total	282,854	3,021	285,875	929	150,035	347,328	35,322	43,207
Alaska	31	2	33	-	41,361	-	25,122	-
Arizona	13,273	-	13,273	4	2,809	-	251	-
California	197,245	-	197,245	610	4,301	15,927	9,213	475
Hawaii	4,973	1,631	6,604	1	97,315	325,737	480	36,239
Nevada	4,443	70	4,513	3	2,520	5,551	89	-
Oregon	27,966	881	28,846	155	1,028	113	2	-
Washington	34,923	438	35,361	155	700	-	164	6,492

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.

• Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1994, (DOE/EIA-0340(94)/1).

Table 23. Adjusted Sales for Transportation Use: Distillate Fuel Oil and Residual Fuel Oil, 1994
(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	3,063,441	2,026,899	5,944,838	24,442,609	29,532,949	5,944,879
PAD District I Total	493,382	443,254	1,324,807	7,833,800	8,770,437	1,324,848
Subdistrict IA Total	30,246	68,927	19,859	769,320	868,493	19,859
Connecticut	5,469	2,792	-	176,778	185,039	-
Maine	8,737	21,178	5,041	127,602	157,517	5,041
Massachusetts	15,518	35,615	13,998	294,788	345,921	13,998
New Hampshire	198	420	408	55,727	56,345	408
Rhode Island	11	8,575	412	41,559	50,145	412
Vermont	314	347	-	72,866	73,527	-
Subdistrict IB Total	188,641	124,361	715,148	2,987,381	3,300,382	715,189
Delaware	547	1,776	52,384	61,356	63,680	52,384
District of Columbia	5,407	56	-	21,565	27,028	-
Maryland	27,445	12,460	25,544	306,348	346,253	25,544
New Jersey	82,758	78,826	261,035	554,233	715,817	261,035
New York	12,039	12,860	126,017	906,022	930,921	126,017
Pennsylvania	60,444	18,383	250,169	1,137,857	1,216,684	250,209
Subdistrict IC Total	274,496	249,966	589,800	4,077,099	4,601,561	589,800
Florida	82,820	129,176	428,809	878,915	1,090,911	428,809
Georgia	60,877	5,442	79,037	1,038,821	1,105,139	79,037
North Carolina	51,337	14,213	1,412	760,596	826,146	1,412
South Carolina	8,016	2,570	1,729	516,634	527,220	1,729
Virginia	56,869	38,469	78,814	676,118	771,456	78,814
West Virginia	14,577	60,096	-	206,015	280,689	-
PAD District II Total	1,242,098	399,546	19,528	8,101,108	9,742,752	19,528
Illinois	138,982	69,695	2,140	^E 740,451	949,128	2,140
Indiana	179,542	13,955	9,548	933,435	1,126,932	9,548
Iowa	54,657	4,783	-	372,559	431,999	-
Kansas	108,993	-	-	294,362	403,355	-
Kentucky	108,555	125,474	-	582,087	816,116	-
Michigan	56,188	8,403	4,153	724,072	788,663	4,153
Minnesota	121,882	2,582	97	415,879	540,343	97
Missouri	16,030	61,705	300	725,701	803,436	300
Nebraska	105,121	-	-	281,594	386,715	-
North Dakota	44,243	-	-	124,796	169,039	-
Ohio	133,925	10,001	2,699	1,064,220	1,208,146	2,699
Oklahoma	88,859	201	-	476,271	565,332	-
South Dakota	5,015	-	-	133,800	138,815	-
Tennessee	29,630	99,676	107	674,143	803,448	107
Wisconsin	50,477	3,072	485	557,738	611,286	485
PAD District III Total	731,702	891,570	2,067,345	4,046,337	5,669,609	2,067,345
Alabama	61,760	80,451	99,181	649,271	791,481	99,181
Arkansas	71,687	2,636	-	467,619	541,942	-
Louisiana	30,618	492,519	1,011,024	437,193	960,330	1,011,024
Mississippi	46,167	41,237	151,394	352,785	440,189	151,394
New Mexico	16,485	-	-	222,791	239,276	-
Texas	504,985	274,727	805,747	1,916,678	2,696,391	805,747
PAD District IV Total	345,273	70	54	975,232	1,320,575	54
Colorado	104,832	-	54	258,390	363,222	54
Idaho	33,109	42	-	157,989	191,140	-
Montana	78,145	1	-	154,384	232,530	-
Utah	37,819	27	-	208,592	246,438	-
Wyoming	91,367	-	-	195,877	287,244	-
PAD District V Total	250,985	292,460	2,533,105	3,486,132	4,029,577	2,533,105
Alaska	2,703	83,481	4,289	53,142	139,326	4,289
Arizona	4,996	10	-	456,123	461,129	-
California	127,994	78,655	1,615,496	1,985,649	2,192,299	1,615,496
Hawaii	-	41,684	125,573	30,649	72,333	125,573
Nevada	8,116	-	-	172,148	180,264	-
Oregon	68,723	25,328	165,460	^E 343,909	437,960	165,460
Washington	38,452	63,301	622,286	444,512	546,265	622,286

^E Estimated data. Illinois' annual estimate is based on eleven months of data. Since 1994 data for Oregon were not available, estimate is based on 1993 data.

Dashes (-) = No data reported.

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

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

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

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

Table 24. Adjusted Sales for Military, Off-Highway, and All Other Uses: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 1994
(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	448,661	77,901	526,563	68,368	1,531,300	457,181	1,988,481	804	6,745	10,957
PAD District I Total	39,867	65,561	105,428	59,394	383,847	92,438	476,285	28	3,915	6,055
Subdistrict IA Total	12,329	17,881	30,210	7,454	39,516	17,500	57,016	9	298	591
Connecticut	263	2,161	2,424	957	4,018	210	4,228	9	292	129
Maine	8,132	11,037	19,169	4,912	10,749	13,742	24,491	-	6	87
Massachusetts	2,990	1,102	4,091	1,584	15,019	910	15,930	-	-	229
New Hampshire	758	-	758	-	3,114	2,173	5,287	-	-	78
Rhode Island	70	3,564	3,634	-	2,481	-	2,481	-	-	1
Vermont	116	17	133	-	4,135	465	4,600	-	-	68
Subdistrict IB Total	6,098	25,608	31,706	35,691	162,628	5,773	168,400	17	512	4,885
Delaware	15	843	858	1,080	2,988	212	3,200	-	-	73
District of Columbia	950	1,863	2,813	-	459	-	459	-	-	-
Maryland	2,216	15,489	17,705	16,163	24,525	1,096	25,622	14	-	982
New Jersey	480	120	600	8,013	33,938	585	34,523	-	-	436
New York	1,711	6,007	7,718	7,712	39,070	203	39,273	-	100	1,127
Pennsylvania	726	1,285	2,011	2,723	61,646	3,677	65,323	4	411	2,267
Subdistrict IC Total	21,440	22,072	43,512	16,250	181,703	69,166	250,869	2	3,105	579
Florida	7,719	-	7,719	2,591	59,759	7,918	67,678	-	2,950	153
Georgia	4,867	4,254	9,120	-	36,667	29,570	66,238	-	7	5
North Carolina	4,568	496	5,064	7,572	30,549	12,093	42,643	-	44	13
South Carolina	786	13	800	1,474	15,253	11,727	26,980	-	104	37
Virginia	3,435	17,204	20,639	4,612	25,241	7,429	32,670	-	-	213
West Virginia	64	105	169	-	14,232	428	14,660	2	-	158
PAD District II Total	25,147	2,833	27,980	625	570,901	75,639	646,541	197	144	2,429
Illinois	314	59	373	-	76,366	1,911	78,276	170	-	679
Indiana	422	595	1,017	-	31,500	3,953	35,452	-	-	480
Iowa	167	-	167	-	22,605	3,941	26,546	-	-	11
Kansas	4,424	181	4,605	-	22,599	3,061	25,660	-	7	50
Kentucky	1,449	1,036	2,485	-	36,764	5,858	42,622	14	-	286
Michigan	1,082	5	1,087	-	63,458	13,173	76,631	9	57	151
Minnesota	95	106	201	-	37,566	3,623	41,189	-	-	64
Missouri	4,335	-	4,335	625	55,600	3,463	59,063	4	1	108
Nebraska	808	-	808	-	8,535	2,012	10,547	-	68	32
North Dakota	968	546	1,515	-	4,977	656	5,632	-	-	7
Ohio	708	184	892	-	72,984	19,163	92,147	-	-	110
Oklahoma	3,321	-	3,321	-	14,816	4,540	19,356	-	-	12
South Dakota	311	-	311	-	9,086	2,334	11,420	-	-	2
Tennessee	3,031	49	3,080	-	62,348	3,765	66,113	-	10	354
Wisconsin	3,711	72	3,783	-	51,698	4,189	55,887	-	-	83
PAD District III Total	230,869	4,084	234,953	4,592	305,930	172,853	478,783	579	7	1,898
Alabama	4,653	361	5,015	57	35,469	28,497	63,966	4	6	53
Arkansas	1,306	2,252	3,558	-	27,700	21,879	49,579	187	1	647
Louisiana	57,159	10	57,169	1,081	51,862	37,920	89,782	-	-	399
Mississippi	15,883	-	15,883	-	16,543	32,664	49,206	375	-	374
New Mexico	2,884	144	3,028	-	9,609	1,045	10,654	-	-	64
Texas	148,984	1,317	150,301	3,453	164,749	50,847	215,596	12	-	361
PAD District IV Total	12,842	1,965	14,808	-	91,180	22,530	113,711	-	231	108
Colorado	6,572	1,965	8,537	-	27,001	961	27,962	-	3	37
Idaho	1,710	-	1,710	-	12,727	9,396	22,124	-	9	51
Montana	615	-	615	-	8,156	8,686	16,842	-	-	-
Utah	3,668	-	3,668	-	24,502	2,074	26,576	-	107	14
Wyoming	277	-	277	-	18,794	1,413	20,207	-	112	6
PAD District V Total	139,936	3,459	143,395	3,758	179,441	93,720	273,161	-	2,448	466
Alaska	5,870	1,997	7,867	-	13,738	11,170	24,908	-	-	2
Arizona	1,284	10	1,294	-	14,770	1,824	16,594	-	-	2
California	78,156	-	78,156	970	105,731	18,263	123,994	-	30	278
Hawaii	26,734	-	26,734	177	5,448	-	5,448	-	2,418	-
Nevada	930	-	930	-	12,844	2,221	15,064	-	-	1
Oregon	737	5	742	-	9,443	27,714	37,158	-	-	144
Washington	26,224	1,448	27,672	2,611	17,467	32,528	49,996	-	-	38

Dashes (-) = No data reported.

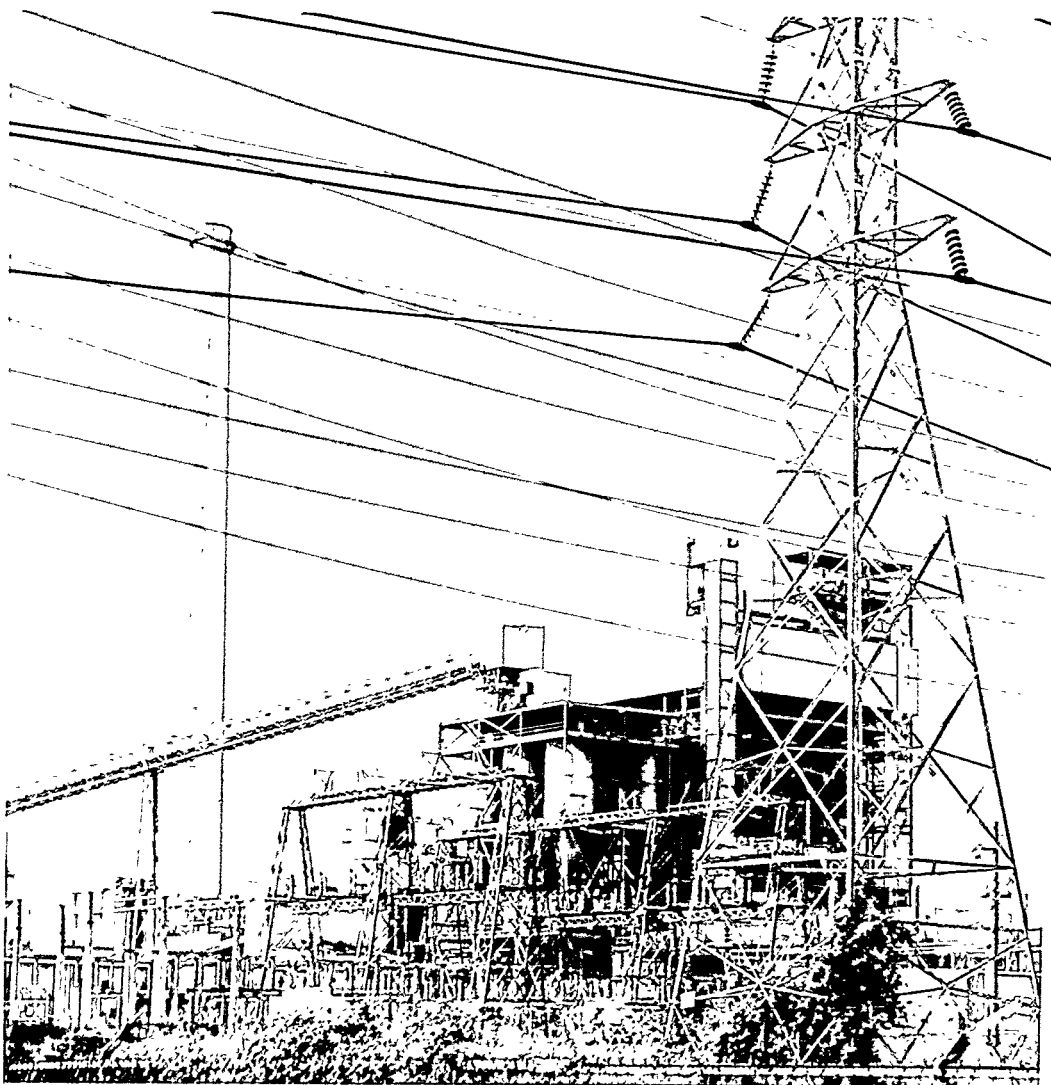
Note: Totals may not equal sum of components due to independent rounding.

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

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

Appendix

Technical Notes



Plants burning fuel oil or kerosene to generate electricity are classified as electric utility use.

Appendix

Technical Notes

Note 1: EIA-821: Annual Fuel Oil and Kerosene Sales Report, 1994

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 1994 EIA-821 survey. The EIA-863, "Petroleum Product Sales Identification Survey," was mailed to approximately 27,000 companies in January 1992 to collect 1991 State-level sales volume data for No. 2 distillate, residual fuel, and motor gasoline. 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 and motor gasoline data were identified by end use and non-end-use sales. The mailing list for the EIA-863 survey was constructed by merging and unduplicating the 1988 frame file and more than 51

State and commercial lists. In addition, company/State-level volumes for distillate fuel oil, residual fuel oil, and motor gasoline from the 1991 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 1992 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 4,500 companies. This method reduced the total survey sample size while improving volume estimates. Selected companies were asked to report sales by end-use categories for distillate and residual fuel oil and kerosene.

Imputation and Estimation

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

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

where:

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

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

The degree of imputation by product and end use at the U.S. total level ranged as follows for the 1994 EIA-821 data: distillate, 1.4 percent for railroad use to 23.2 percent for off-highway use; residual fuel oil, 0.03 percent for oil company use to 3.7 percent for commercial use; and kerosene, 3.0 percent for industrial use to 9.0 percent for all other uses.

Collection Methods

The EIA-821 form was mailed in January 1995 to all companies selected for participation in the 1994 reference year survey. The completed form was due to EIA on March 1, 1995. 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:

$$C V(\hat{V}) = \frac{\sqrt{V A R(\hat{V})}}{\hat{V}}$$

where:

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

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

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

$\hat{V}$ = 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 1994 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, 1994

Geographic Area	Residential Distillate Fuel Oil	Non-Residential Retail Distillate Fuel Oil	Retail Residual Fuel Oil
U.S. Average	1.8	0.5	0.1
PAD District I Average	2.1	0.8	0.1
Subdistrict IA Average	3.1	1.1	0.1
Connecticut	4.5	4.0	0.0
Maine	3.7	2.1	0.0
Massachusetts	6.6	1.3	0.1
New Hampshire	4.8	1.3	0.0
Rhode Island	6.7	1.6	0.7
Vermont	5.1	2.6	0.0
Subdistrict IB Average	3.2	1.7	0.2
Delaware	6.2	2.0	0.0
District of Columbia	3.0	1.2	0.0
Maryland	5.3	2.8	0.0
New Jersey	5.5	4.6	0.1
New York	6.3	3.1	0.3
Pennsylvania	4.8	3.0	0.8
Subdistrict IC Average	5.0	1.0	0.1
Florida	16.5	1.6	0.1
Georgia	9.0	2.6	0.0
North Carolina	7.5	2.2	0.0
South Carolina	6.6	1.6	0.1
Virginia	8.5	3.2	0.0
West Virginia	7.9	1.7	0.0
PAD District II Average	2.9	0.9	0.1
Illinois	17.2	2.2	0.2
Indiana	8.1	2.4	0.0
Iowa	13.2	12.0	0.0
Kansas	13.3	4.1	0.0
Kentucky	9.4	1.9	0.5
Michigan	5.9	1.9	0.0
Minnesota	7.8	3.0	0.6
Missouri	6.1	2.3	0.1
Nebraska	6.2	4.4	0.6
North Dakota	6.6	2.8	0.1
Ohio	8.2	1.7	0.0
Oklahoma	62.8	1.7	0.0
South Dakota	9.9	4.1	0.8
Tennessee	19.3	1.9	0.0
Wisconsin	6.8	2.8	0.0
PAD District III Average	6.2	1.3	0.1
Alabama	10.3	2.0	0.1
Arkansas	54.5	2.7	0.0
Louisiana	0.0	3.5	0.0
Mississippi	23.6	3.1	0.0
New Mexico	1.1	2.1	0.0
Texas	35.1	2.2	0.0
PAD District IV Average	5.4	1.0	0.3
Colorado	8.9	1.8	2.6
Idaho	7.3	2.3	3.3
Montana	15.2	2.8	0.0
Utah	7.9	2.5	0.5
Wyoming	16.0	2.5	2.5
PAD District V Average	4.1	1.5	0.2
Alaska	4.6	5.6	0.0
Arizona	0.1	2.0	0.0
California	7.6	3.1	0.3
Hawaii	0.0	0.1	0.0
Nevada	2.7	1.1	0.1
Oregon	14.8	2.8	1.4
Washington	4.7	4.4	0.0

Note: Coefficients of variation that are less than 0.1 and greater than zero are displayed as 0.1.
 Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 1994.

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 1990 through 1994 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.

Military. For 1990, the national data on residual fuel oil issued to defense installations (Defense Fuel Supply Center's Defense Energy Information System (DFSC DEIS) Report) were allocated by State based on the EIA-821 survey. Survey results are used for data from 1991 through 1994.

On-Highway Diesel. Distillate fuel oil by State was calculated from the Federal Highway Administration data on highway use of special fuels. Of the 1990 through 1994 special fuels, more than 98 percent is diesel.

Railroad. For 1990, distillate fuel oil used by Class I railroads and Amtrak at the U.S. level was obtained from the Association of American Railroads. State-level allocations were based on the EIA-821 survey.

Survey results are used for data from 1991 through 1994.

1990 through 1994 Adjustments

Kerosene volumes for 1993 and 1994 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 1994 survey resulted in 820,140 thousand gallons of kerosene at the national level. The products supplied volume at the national level for kerosene was 750,330 thousand gallons. Hence, the adjustment factor at the national level for 1994 was 0.92.

For 1990 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 1994 are as follows:

Distillate Fuel Oil

• PAD District I:	.86
• PAD District II:	1.05
• PAD District III:	1.09
• PAD District IV:	1.13
• PAD District V:	.62

For Tables 13 through 24, total sales at the PAD district level equal the products supplied volumes as reported in the PSA, 1990 through 1994. For example, the 1994 survey yielded a volume for distillate residential use in PAD District II of 945,245 thousand gallons. The total distillate volume for PAD District II was 6,186,575 from the survey, after subtracting the volume coming from alternate sources. The product supplied total distillate volume for PAD District II was 6,490,885 after removing alternate source volume. Hence, the adjusted 1994 estimate of distillate for residential use in PAD District II was $(6,490,885/6,186,575) \times 945,245 = 991,741$.

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 1994 survey yielded 14,825,378 thousand gallons of residual fuel oil, while the products supplied volume at the national level was 15,648,654 thousand gallons. Thus, the adjustment factor at the national level for 1994 was 1.10, 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. Volumes used by companies in the marketing and distribution of petroleum products are also included.

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.

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 100 degrees Fahrenheit.
2. **No. 2 Distillate.** A petroleum distillate which meets the specifications for No. 2 heating oil or fuel oil as defined in ASTM D 396 and/or the specifications for No. 2 diesel fuel as defined in ASTM Specification D 975.
 - a. **No. 2 Diesel Fuel.** A gas oil type distillate of lower volatility with distillation temperatures at the 90-percent point between 540 and 640 degrees Fahrenheit for use in high speed diesel engines generally operated under uniform speed and load conditions. Includes Type R-R diesel fuel used for railroad locomotive engines, and Type T-T for diesel-engine trucks. Properties are defined in ASTM Specification D 975.
 - (1) **No. 2 Diesel $\leq$.05 % Sulfur.** The sulfur level does not exceed 0.05 percent by weight.
 - (2) **No. 2 Diesel $>$.05 % Sulfur.** The sulfur level is above 0.05 percent by weight.
 - b. **No. 2 Fuel Oil.** A distillate fuel oil for use in atomizing type burners for domestic heating or for moderate capacity commercial-industrial burner units. ASTM Specification D 396 specifies for this grade distillation temperatures at the 90-percent point between 540 and 640 degrees Fahrenheit, and kinematic viscosities between 2.0 and 3.6 centistokes at 100 degrees Fahrenheit.
3. **No. 4 Fuel.** A fuel oil for commercial burner installations not equipped for preheating facilities. It is used extensively in industrial plants. This grade is a blend of distillate fuel oil and residual fuel oil stocks that conforms to ASTM Specification D 396 or Federal Specification VV-F-815C; its kinematic viscosity is between 5.8 and 26.4 centistokes at 100 degrees Fahrenheit. Also included is No. 4-D, a fuel oil for low-

and medium-speed diesel engines that conforms to ASTM Specification D 975.

Kerosene. A petroleum distillate that boils at a temperature between 300 and 550 degrees Fahrenheit, that has a flash point higher than 100 degrees Fahrenheit by ASTM Method D 56, that has a gravity range from 40 to 46 degrees API, and that has a burning point in the range of 150 degrees to 175 degrees Fahrenheit. Included are the two classifications recognized by ASTM Specification D 3699: No. 1-K and No. 2-K, and all grades of kerosene called range or stove oil which have properties similar to No. 1 fuel oil, but with a gravity of about 43 degrees API and a maximum end-point of 625 degrees Fahrenheit. Kerosene is used in space heaters, cook stoves, and water heaters and is suitable for use as an illuminant when burned in wick lamps. **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

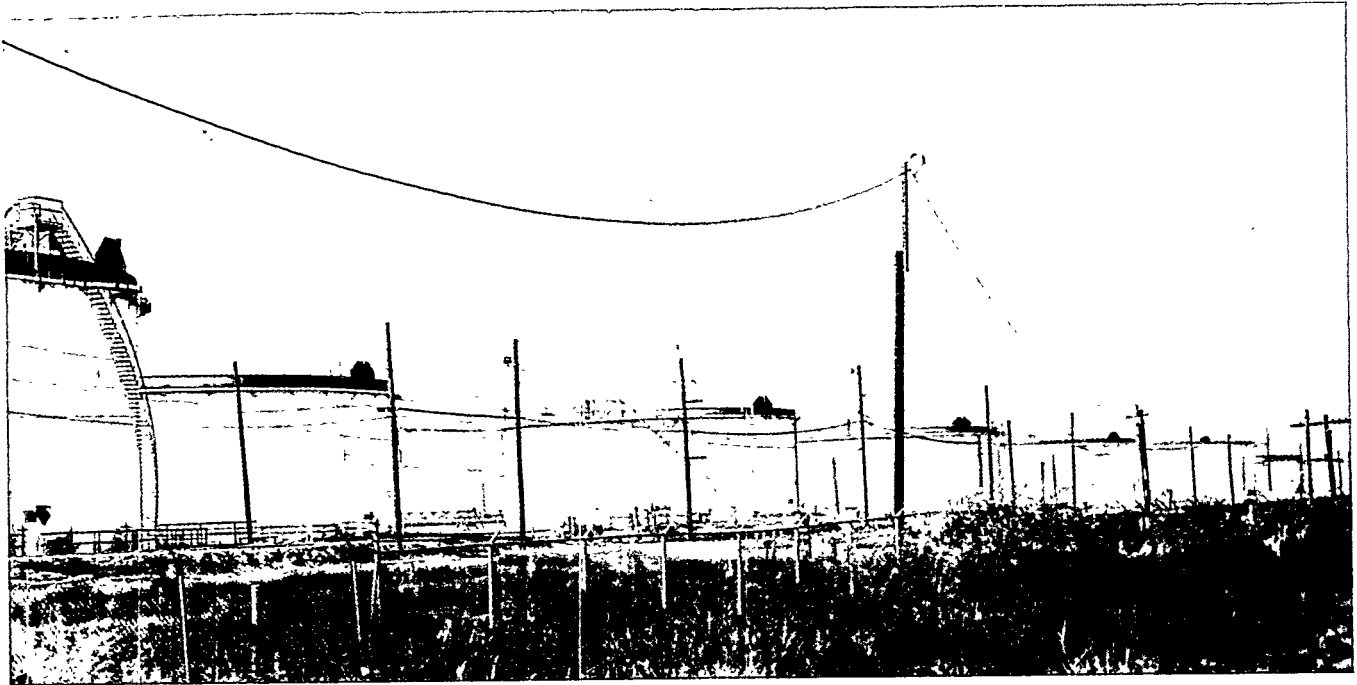
PAD District V:

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.



Storage and distribution of petroleum products are becoming more challenging in the 1990s due to a wide variety of new air quality regulations.