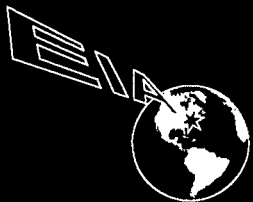


Fuel Oil and Kerosene Sales 1997

August 1998

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Fuel Oil and Kerosene Data Available Through Electronic Access

Annual petroleum marketing data are available through electronic access that contains statistics from the *Fuel Oil and Kerosene Sales 1997* 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.

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Introduction

The *Fuel Oil and Kerosene Sales 1997* report provides information, illustrations and State-level statistical data on end-use sales of kerosene; No. 1, No. 2, and No. 4 distillate fuel oil; and residual fuel oil. State-level kerosene sales include volumes for residential, commercial, industrial, farm, and all other uses. State-level distillate sales include volumes for residential, commercial, industrial, oil company, railroad, vessel bunkering, military, electric utility, farm, on-highway, off highway construction, and other uses. State-level residual fuel sales include volumes for commercial, industrial, oil company, vessel bunkering, military, electric utility, and other uses. The Petroleum Division, Office of Oil and Gas, Energy Information Administration ensures the accuracy, quality, and confidentiality of the published data in the *Fuel Oil and Kerosene Sales 1997*.

Except for the kerosene and on-highway diesel information, data presented in Tables 1 through 12 (Sales of Fuel Oil and Kerosene) present results of the EIA-821 survey. Tables 13 through 24 (Adjusted Sales of Fuel Oil and Kerosene) include volumes that are based on the EIA-821 survey but have been adjusted to equal the products supplied volumes published in the *Petroleum Supply Annual* (PSA).

Tables 1 through 12 contain sales estimates resulting from the EIA-821 survey for all categories except kerosene and on-highway diesel. For on-highway diesel the survey was not expected to yield valid statistics because the sampling frame does not include a comprehensive listing of all truck stops. Hence, State-level data obtained from the Federal Highway Administration were used instead.

Kerosene sales data were not expected to be complete because a comprehensive listing of kerosene retailers was not available to serve as a sampling frame. It was thought that a complete frame would be expensive to construct because many kerosene retailers are convenience stores or other small businesses. Because of these concerns, kerosene sales data have been published only after adjusting the sales data so that they add to the U.S. total of kerosene product supplied from the PSA.

In Tables 13 through 24, estimates of distillate fuel oil are adjusted at the Petroleum Administration for Defense (PAD) district level to equal published PSA volume estimates of products supplied. For certain sales

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

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

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

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



Highlights

Sales of Fuel Oil and Kerosene in 1997

Benefiting from the robust economic growth, demand for distillate fuel increased in 1997 for the sixth consecutive year. Although the winter of 1997 was warmer than the previous year, distillate sales increased by 1.8 percent. Sales of residual fuel oil gained in some areas of the country, but declined overall by 5.7 percent. The decline in demand for residual fuel oil points to a resumption of the downward trend in sales that has, with the exception of 1996, characterized sales of this fuel for the past several years.

Distillate sales dominated the fuel oil market, accounting for 80.1 percent of the total sales. Residual fuel oil sales accounted for 18.4 percent of the total. The remaining 1.5 percent consisted of sales of kerosene.

Distillate Fuel Oil

Dominated by the transportation sector, distillate sales continued to increase in 1997 and reached an all-time high of 54.4 billion gallons. Sales increased 1.8 percent, nearly 1.0 billion gallons above the 1996 total.

The transportation sector continued to dominate distillate fuel oil sales accounting for more than half of total sales. In addition, the increase in sales of on-highway diesel accounted for more than 86 percent of the increases among those sectors where distillate sales went up. In large measure, the growth reflected continued overall economic strength of the country. Gross Domestic Product (GDP) increased by 3.8 percent in 1997.¹ Demand for durable goods increased even more, 8.1 percent.² Sales of on-highway distillate increased to keep pace with the increased flow of goods to markets and consumers.

Not all elements of the transportation sector fared so well. Sales of distillate fuel oil to railroads declined by 4.9 percent. Prolonged congestion on one major carrier and the resulting delivery problems not only contributed to the decline in distillate sales, but also impacted both the demand and prices for coal, residual fuel oil, and natural gas as well.

Weather in the form of the relatively mild winter, a wetter than normal situation in much of the farm belt,

Table HL1. Volume Distribution of Distillate and Residual Fuel Oils, 1996 and 1997

End Use	Distillate 1997		Distillate 1996		Residual 1997		Residual 1996	
	Volume (million gallons)	Percent Share	Volume (million gallons)	Percent Share	Volume (million gallons)	Percent Share	Volume (million gallons)	Percent Share
Residential	6,531	12.0	6,910	12.9	—	—	—	—
Commercial	3,315	6.1	3,604	6.8	790	6.3	928	7.0
Industrial	2,309	4.3	2,289	4.3	1,899	15.2	2,089	15.7
Oil Company	852	1.6	731	1.4	160	1.3	167	1.3
Farm	3,548	6.5	3,591	6.7	—	—	—	—
Electric	636	1.2	658	1.2	4,599	36.8	4,305	32.5
Railroad	3,278	6.0	3,447	6.5	—	—	—	—
Vessel Bunkering	2,574	4.7	2,491	4.7	5,010	40.1	5,701	43.0
On-Highway	28,614	52.6	26,958	50.5	—	—	—	—
Military	433	0.8	454	0.8	42	0.3	56	0.4
Off-Highway	2,276	4.2	2,246	4.2	—	—	—	—
Other	0	0.0	0	0.0	4	0.0	10	0.1
Total	54,366	100.0	53,379	100.0	12,504	100.0	13,256	100.0

Sources: Energy Information Administration, Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," 1996 and 1997.

¹Economic Indicators, April 1998, Washington D.C. US Government Printing Office, p.1-2.

²Economic Indicators, April 1998, Washington D.C. US Government Printing Office, p.12.

and other unusual conditions associated with the severity of the El Niño undermined much of the gain in distillate sales. Sales from the transportation sector and direct oil company markets increased by 1.9 billion gallons. However, the combined drop in sales from the residential, commercial, farm, electric utility, railroad, and military sectors amounted to nearly 1 billion gallons resulting in a net increase of just under 1 billion gallons in total distillate sales.

Distillate sales also benefited from lower prices. In particular, sales of vessel bunker fuel increased as a glut of distillate developed, principally in the Gulf Coast region. The glut developed as stock levels (already at their highest level in several years because of the mild winter) continued to build into the summer with an upsurge in summer gasoline demand of 2.4 percent compared to 1996.³ Refinery production of distillate increased in part as a function of the increased demand for gasoline. In addition, a large East Coast refinery not in operation in 1996 reopened and returned to production in 1997.⁴

Oil company direct use of distillate fuel oil increased sharply as companies increased drilling activity. Prompted by higher crude oil and natural gas prices in the closing months of 1996 and first quarter of 1997,⁵ the number of rotary rigs in operation climbed steadily through the first three-quarters of 1997, surging 21.1 percent.⁶ Other than in PAD District I, the East Coast, where direct oil company use is essentially limited to refinery processing, direct oil company demand increased throughout the U.S.

The largest drop in distillate sales occurred in the residential sector where the impact of the relatively mild winter was the strongest. The drop in sales was most pronounced in the northeast portion of PAD District I (the East Coast) and in parts of PAD District II (the Midwest) where the market for home heating oil is concentrated. Distillate sales to the residential market dropped 4.7 percent in PAD District I and 12.1 percent in PAD District II.

Sales to the commercial sector were flat or declined generally throughout the country. The overall drop in commercial sales amounted to 8.0 percent. Led by the

solid gain in the demand for durable goods, distillate sales to the industrial sector increased by 0.9 percent. The modest increase developed despite a drop in distillate demand for heating purposes. Industrial sales generally increased in the mid-section of the country from the Gulf Coast northward through the Mississippi River Valley and west to the Rocky Mountains. However, sales fell in portions of PAD District I (the East Coast) as well as in PAD District V (the West Coast).

The impact of the slump in sales to the residential and commercial markets was exacerbated by two factors external to domestic markets. The mild winter was responsible for lower demand throughout the Atlantic Basin. As a result, sales of heating oil were flat or declined and stock levels built in Europe as well as in the U.S. In addition, the economic downturn in Asia began to have a negative impact on demand, particularly during the fourth quarter of 1997, further contributing to the high levels of stocks (particularly of high sulfur distillates).

Although the number of acres planted by farmers was essentially unchanged in 1997, the number of acres harvested increased slightly from the level in 1996.⁷ Nonetheless distillate sales to the farm sector fell generally East of the Rocky Mountains. Increases occurred in the Western U.S. but were insufficient to offset declines elsewhere. Overall sales of distillate to the farm sector declined by 1.2 percent.

Wetter than normal weather in the farm belt delayed planting, and crops were ready for harvesting later than is typical. Warm and dry conditions at harvest time, enabled farmers to cut expenses by leaving crops in the ground even longer and reducing the need for crop drying typically required for such crops as corn and tobacco. As late as October, reports in trade press indicated that crop-drying requirements were only 20.0 percent of normal in some areas.⁸ Sales of propane (the principal crop-drying fuel) fell and prices plunged as demand remained weak even with the onset of winter. Propane stocks built to their highest level in several years.⁹

³Monthly Energy Review (MER), June 1998, Table 3.4, p.57.

⁴"A Contrast Between Distillate Fuel Oil Markets in Autumn 1996 and 1977," *Petroleum Marketing Monthly*, December 1977, p. xxvii.

⁵MER, June 1998, Table 9.1, p. 111.

⁶U.S. Average Rig Counts by State, Baker Hughes, 1996, 1997.

⁷Annual Crop Summary, Agricultural Statistics Board, NASS, USDA, p.23.

⁸Weekly Propane Newsletter, October 13, 1997, Arcadia, California, BPN, p. 5.

⁹MER, June 1998, Table 3.9, p.67.

Distillate sales to the electric utility sector fell by 3.3 percent. Distillate sales to the military fell for the third consecutive year. The drop of 4.8 percent reflects a continuation of changing emphasis in military operations.

Residual Fuel Oil

The downward trend in residual fuel oil sales, interrupted in 1996, resumed in 1997 with a drop of 5.7 percent. (This downward trend has resulted in a drop in sales of more than 40.0 percent since 1987.) Sales in most areas of the country and for most market segments declined. Only sales to the electric utility market increased during 1997.

Residual fuel oil sales to electric utilities increased overall along the East Coast by 5.3 percent. However, the increase was confined to the Northeast where continued outages of a number of large power plants, including several nuclear plants, resulted in a surge in residual fuel oil demand. Several older plants were refurbished prior to the onset of summer to help meet peak demand. Purchases of fuel oil by electric utilities increased as a result by some 30,000 barrels per day during the period from February through June as utilities built inventory for use in the summer.¹⁰

Utility demand in New England resulted in a gain of more than 470 million gallons, a 50.4 percent increase compared to the prior year. However, demand in the Mid-Atlantic region of PAD District I declined sharply in comparison to the level of 1996 while demand was essentially unchanged in the South Eastern region. As a result, the overall gain in PAD District I amounted to approximately 192 million gallons for the year.

The other exception to the general pattern of decline was the Gulf Coast region. Demand from electric utilities in the region more than doubled, increasing by nearly 140 million gallons or nearly 180.0 percent. Sales in the region increased in part as the result of hot summer weather, but in large measure as the result of

delays in deliveries of coal as the result of the congestion affecting one of the major rail carriers in the region.

Sales of residual fuel oil to the commercial, industrial, and military sectors all declined in 1997. Commercial sales fell in most regions of the country and overall dropped by 14.9 percent. Industrial sales fell in every region of the country and overall dropped by 9.1 percent. Sales were down throughout the country reflecting a slowdown in activity.

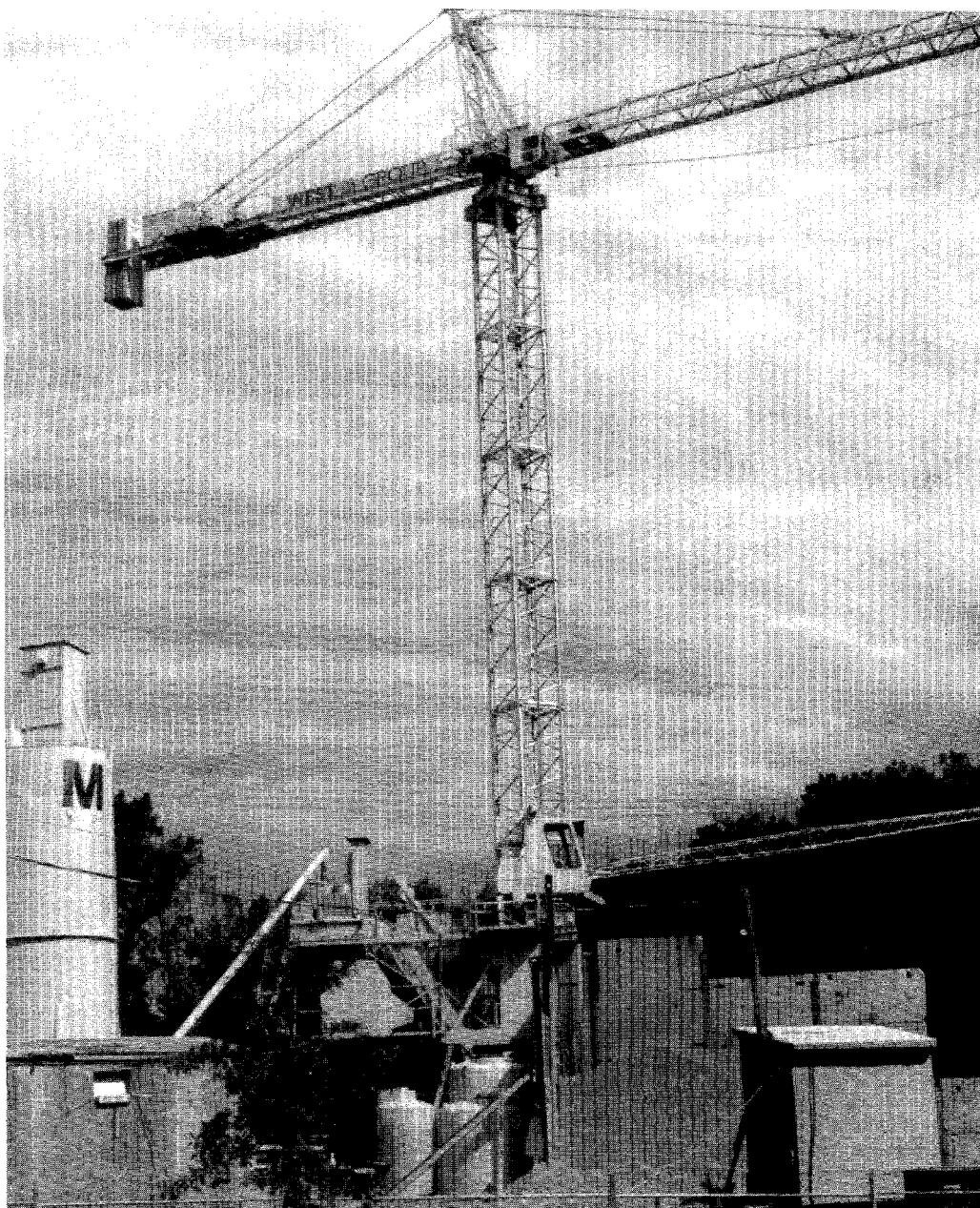
The most precipitous drop in residual fuel oil sales occurred in the vessel bunkering market in PAD District V, the West Coast. Sales plunged by 28.2 percent, more than 656 million gallons. Sales were eroded in large measure as the result of events in Asia. Low bunker prices in the Singapore market boosted sales there at the expense of the West Coast market.¹¹ In addition, during the last quarter of the year, the economic slump in Asia worsened and spread to countries outside Southeast Asia, contributing to the downturn in bunker sales in PAD District V.

Kerosene

Sales of kerosene increased 6.4 percent to exceed one billion gallons for the first time this decade. The kerosene market continued to be dominated by sales to residential consumers, which account for approximately two thirds of all kerosene sales. Reflecting the overall strength of the economy, kerosene sales to commercial and industrial sectors also increased by 17.2 percent and 8.2 percent respectively. The increases reflect the strength of the overall economy. Kerosene sales to the agricultural sector were down. Farm sales fell generally except in PAD District III, the Gulf Coast and in PAD District IV, the Rocky Mountain region.

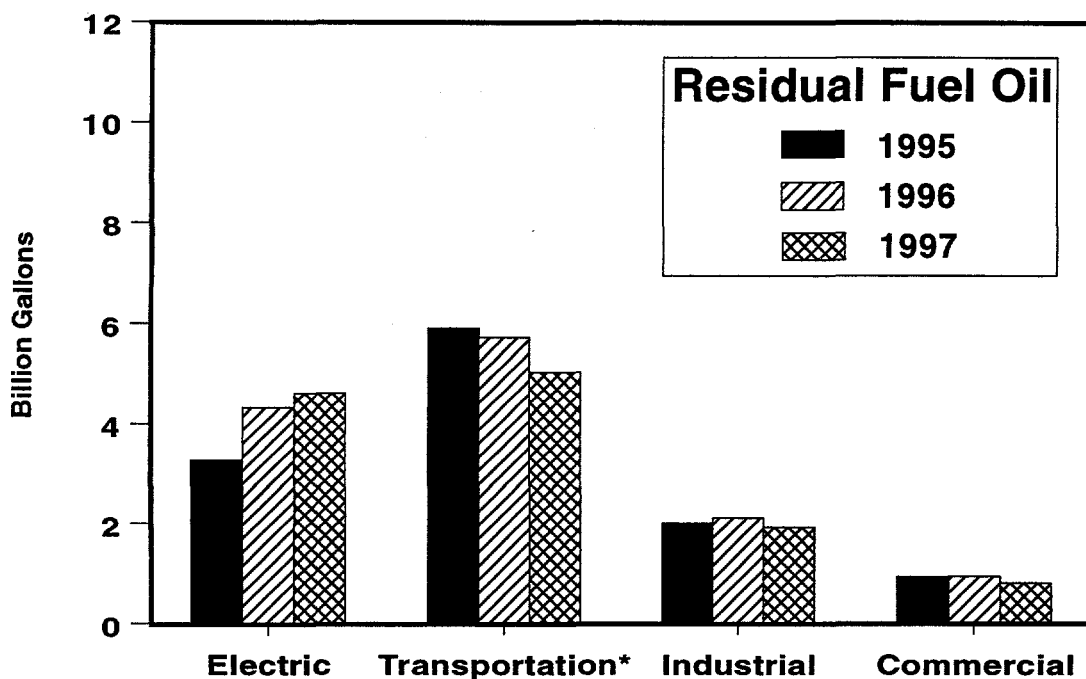
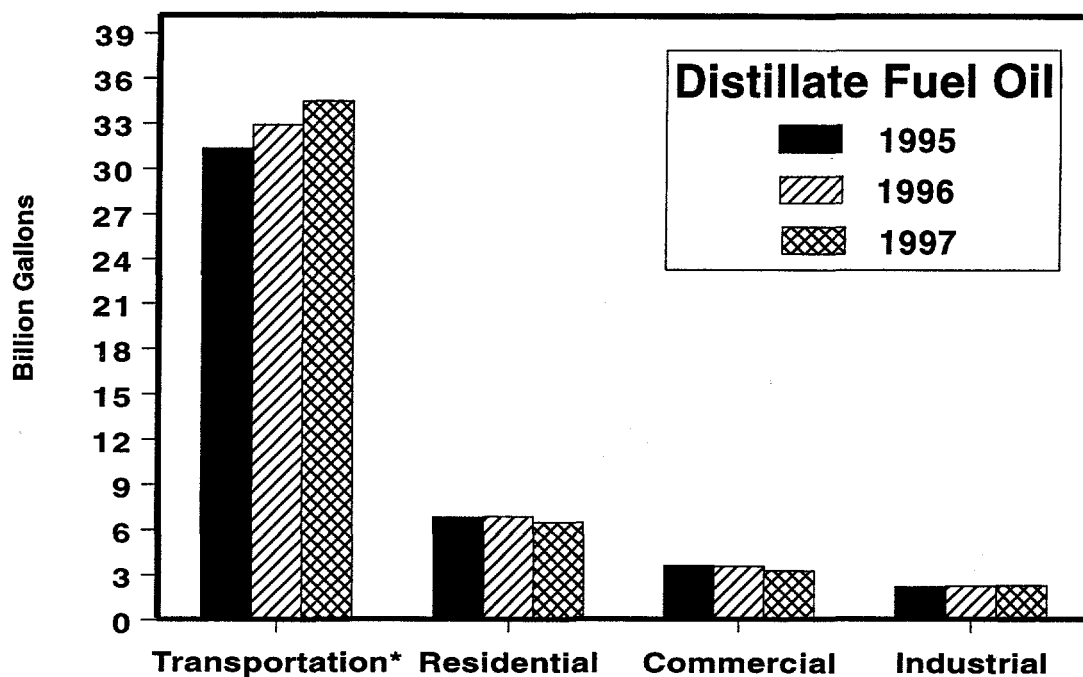
¹⁰*Electric Power Monthly*, July-November 1997, Table 39, "Receipts and Average Cost of Petroleum Delivered to Electric Utilities."

¹¹*Platt's Oilgram Price Report*, Product Price Assessments, Singapore and West Coast Pipeline.



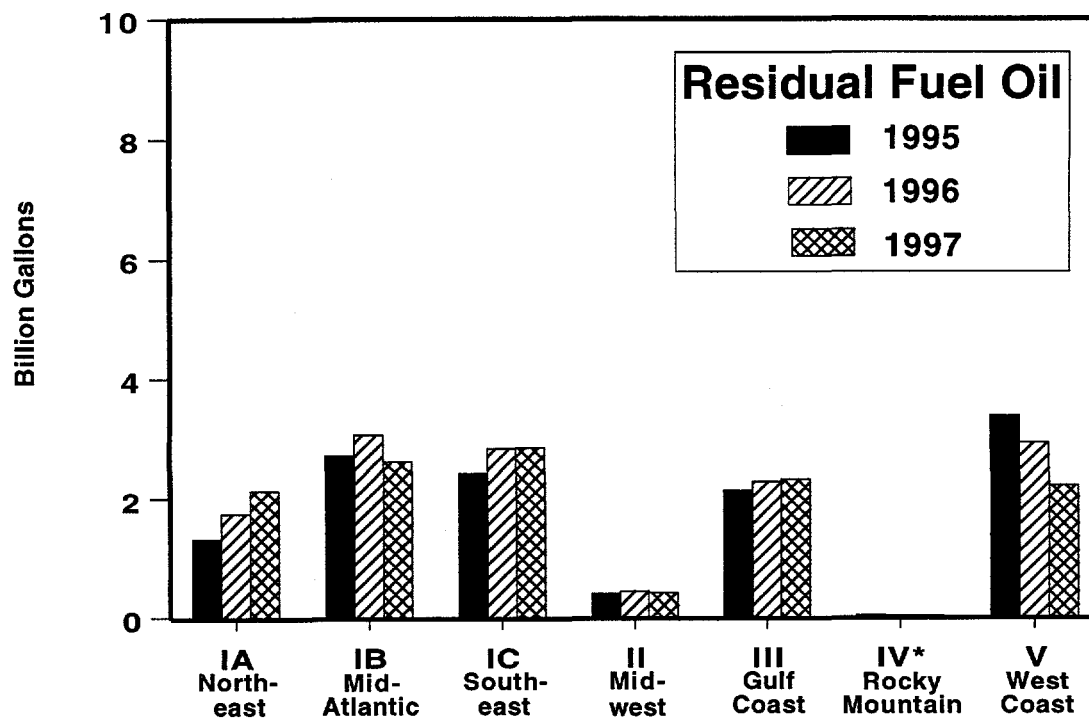
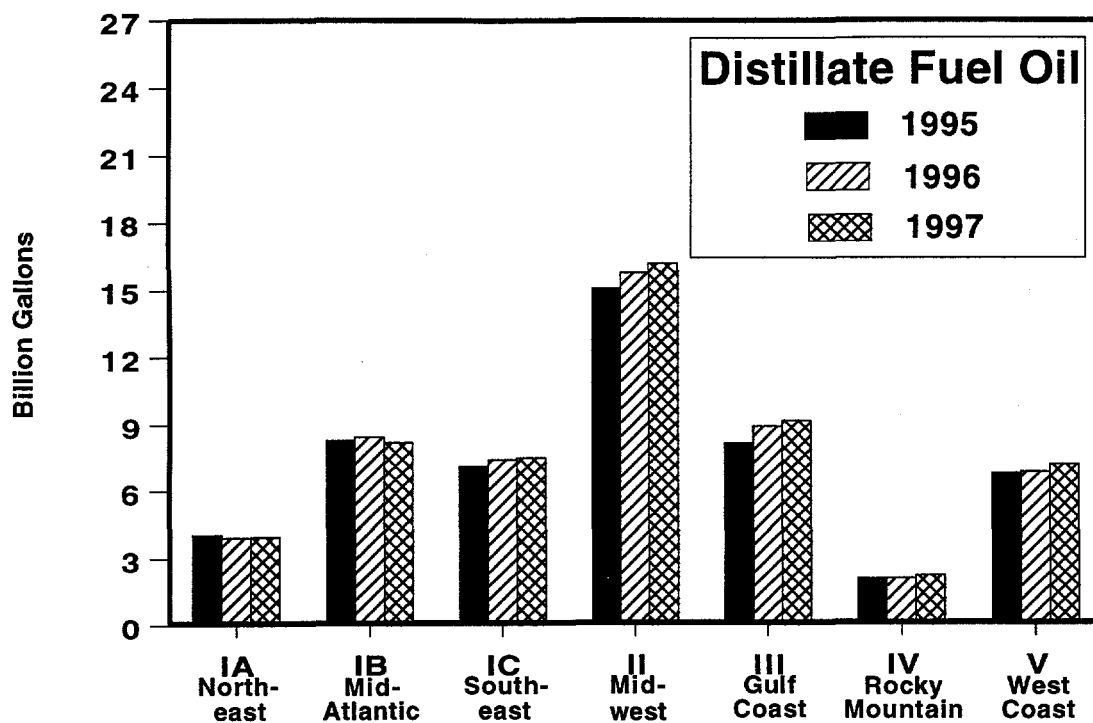
Distillate sales for construction and road building are classified as off-highway use.

Figure HL1. U.S. Sales of Distillate and Residual Fuel Oils by End Use, 1995-1997



*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," 1996 and 1997.

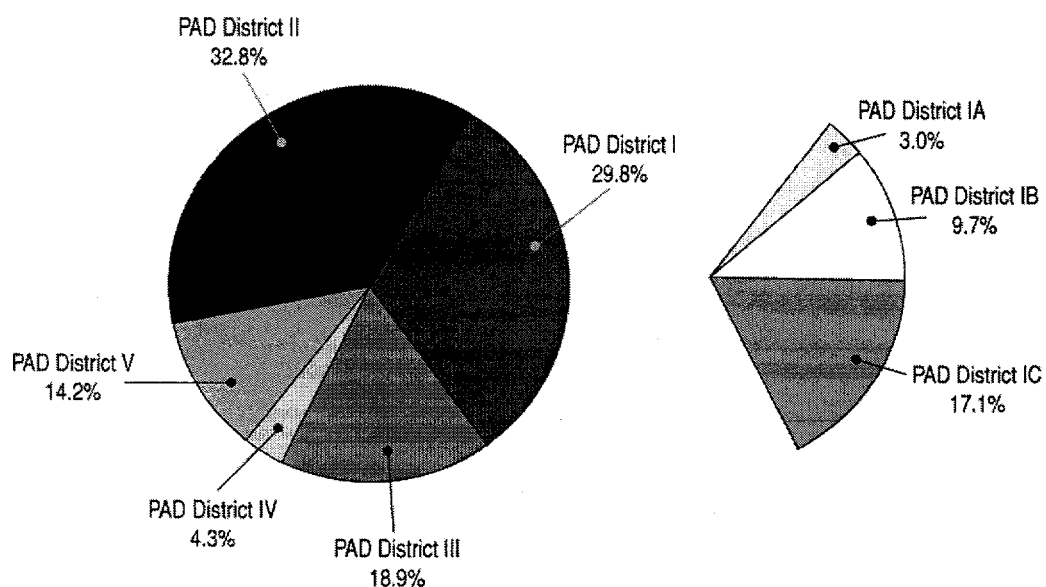
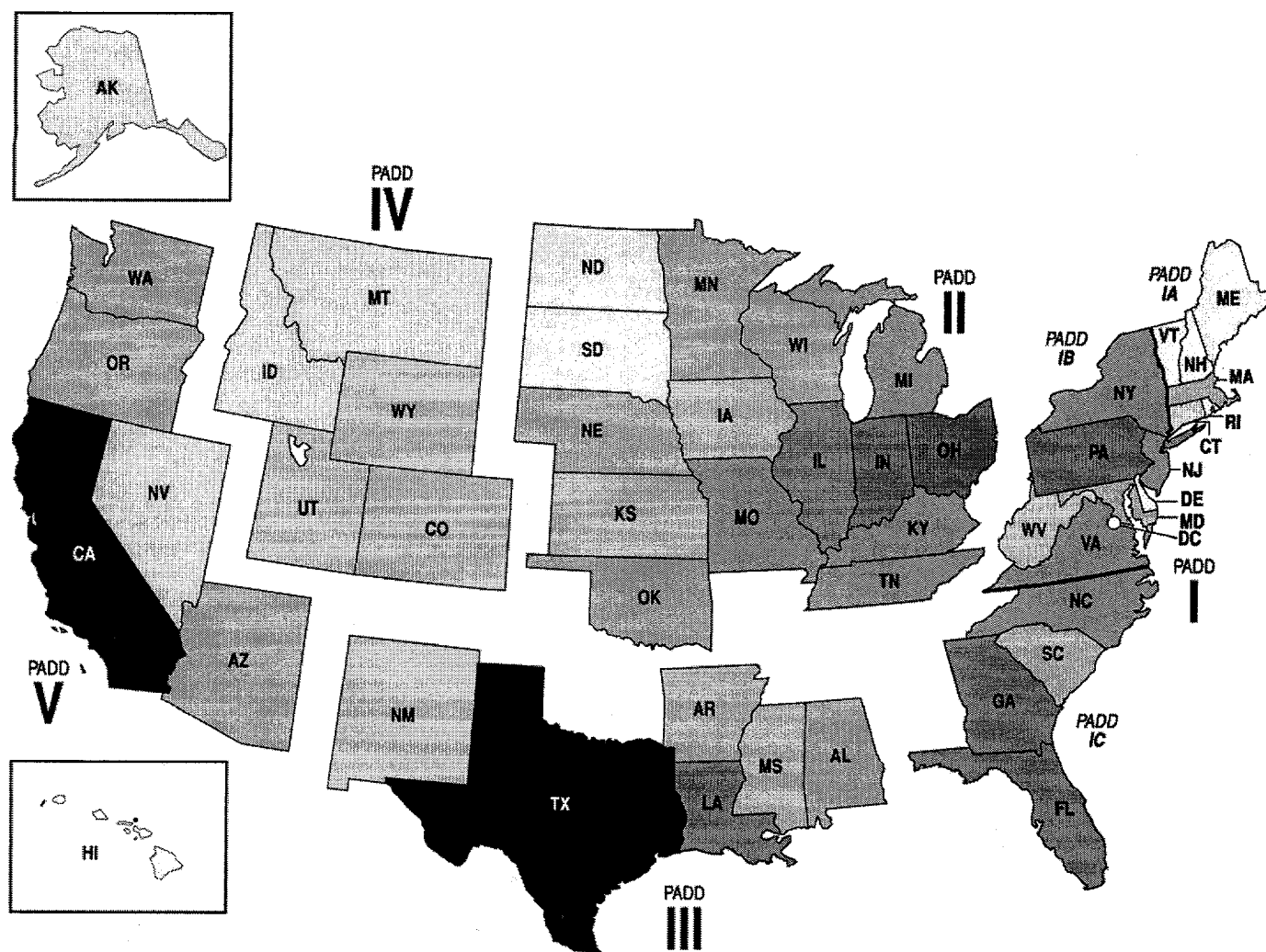
Figure HL2. Volume Distribution of Distillate and Residual Fuel Oils by PAD District, 1995-1997



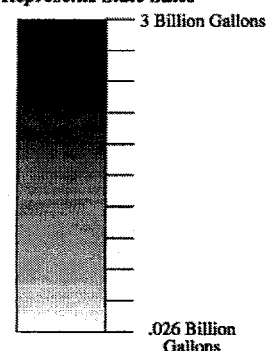
*Residual fuel oil sales in PAD District IV are too small to appear in this graph.

Sources: Energy Information Administration, Form EIA-821, "Fuel Oil and Kerosene Sales Report," 1996 and 1997.

Figure HL3. Distillate Sales for Transportation End-Use by PAD District and State, 1997



Shading Represents State Sales



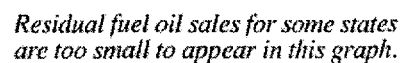


Table 1. Sales of Distillate Fuel Oil by End Use in the United States: 1993-1997
(Thousand Gallons)

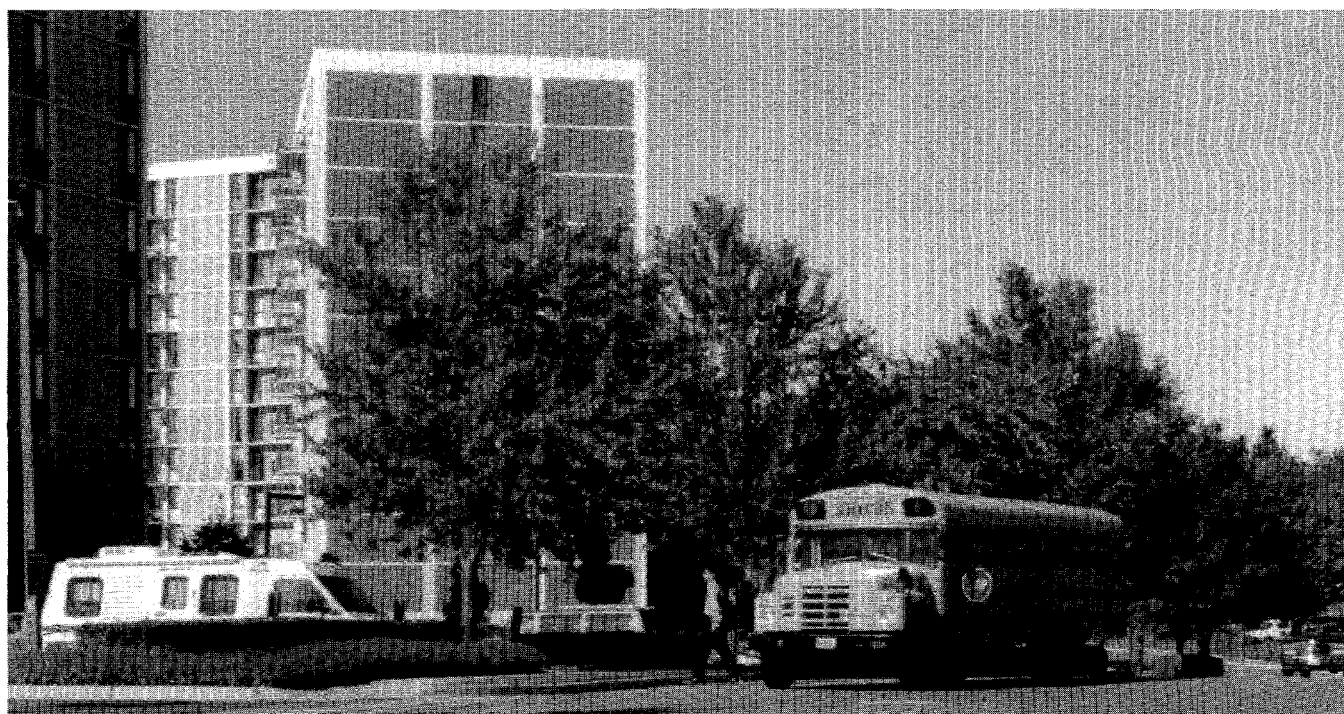
End Use	Distillate Fuel Oil				
	1993	1994	1995	1996	1997
U.S. Total	48,290,076	50,423,596	51,469,264	53,379,033	54,366,495
Residential	7,287,196	7,232,733	6,859,786	6,910,018	6,531,416
Commercial	3,689,509	3,774,929	3,630,856	3,603,620	3,314,956
Industrial	2,130,358	2,269,007	2,238,873	2,288,689	2,309,615
Oil Company	709,404	675,228	686,750	730,676	852,015
Farm	3,410,827	3,270,227	3,476,472	3,591,383	3,547,699
Electric Utility	550,752	663,814	597,461	657,881	636,002
Railroad	3,000,104	3,141,324	3,428,829	3,446,939	3,277,802
Vessel Bunkering	2,154,757	2,189,346	2,339,010	2,490,793	2,573,800
On-Highway Diesel	22,758,842	24,442,609	25,576,433	26,958,668	28,614,022
Military	491,320	610,474	461,740	454,443	432,621
Off-Highway Diesel	2,104,299	2,153,153	2,173,054	2,245,922	2,276,548
All Other	2,709	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 1993-1997.

• On-Highway Diesel data are derived from 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: 1993-1997
(Thousand Gallons)

End Use	Residual Fuel Oil				
	1993	1994	1995	1996	1997
U.S. Total	15,064,305	14,825,378	12,318,128	13,256,998	12,504,135
Commercial	1,025,895	1,061,450	922,572	927,834	789,674
Industrial	2,378,191	2,337,188	1,977,567	2,089,436	1,898,611
Oil Company	266,518	242,754	211,450	167,425	160,477
Electric Utility	6,035,413	5,729,485	3,262,492	4,304,492	4,599,084
Vessel Bunkering	5,281,869	5,386,407	5,886,409	5,701,233	5,010,059
Military	72,540	61,946	50,902	56,225	42,164
All Other	3,878	6,111	6,735	10,354	4,065

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 1993-1997.

Table 3. Sales of Kerosene by End Use in the United States: 1993-1997
(Thousand Gallons)

End Use	Kerosene				
	1993	1994	1995	1996	1997
U.S. Total	760,788	750,330	828,450	948,990	1,009,932
Residential	560,103	480,916	550,336	657,636	688,025
Commercial	103,996	144,142	163,716	155,792	182,559
Industrial	58,190	86,629	86,902	102,322	110,738
Farm	27,695	27,686	19,919	26,017	21,556
All Other	10,805	10,957	7,576	7,223	7,054

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, 1993-1997, (DOE/EIA-0340(93)/1 - (97)/1).

Table 4. Sales of Distillate Fuel Oil by End Use, 1996 and 1997

(Thousand Gallons)

Destination	Residential		Commercial		Industrial	
	1996	1997	1996	1997	1996	1997
U.S. Total	6,910,018	6,531,416	3,603,620	3,314,956	2,288,689	2,309,615
PAD District I Total	5,721,287	5,452,394	2,430,182	2,158,376	760,880	728,262
Subdistrict IA Total	2,156,102	2,142,358	606,041	603,904	97,688	101,435
Connecticut	573,873	563,409	128,589	127,696	22,685	25,878
Maine	328,133	322,282	105,342	102,281	27,455	28,813
Massachusetts	798,127	797,588	245,020	247,024	24,534	21,874
New Hampshire	201,806	201,679	57,387	57,654	6,720	6,143
Rhode Island	151,241	156,946	35,127	32,287	9,475	11,403
Vermont	102,922	100,454	34,575	36,962	6,820	7,325
Subdistrict IB Total	3,056,516	2,874,833	1,357,941	1,125,748	236,870	207,291
Delaware	47,433	39,382	16,638	14,726	8,352	8,334
District of Columbia	13,134	11,230	41,774	22,010	457	285
Maryland	252,604	218,224	142,124	107,936	37,714	25,850
New Jersey	528,956	494,276	214,902	148,189	44,142	39,599
New York	1,314,434	1,277,703	675,093	623,764	49,221	42,573
Pennsylvania	899,955	834,019	267,409	209,123	96,984	90,650
Subdistrict IC Total	508,669	435,203	466,200	428,725	426,322	419,536
Florida	9,263	6,321	92,167	77,682	47,355	45,623
Georgia	6,557	3,437	50,243	37,797	61,682	42,144
North Carolina	185,044	149,067	122,749	124,485	88,908	81,906
South Carolina	30,944	23,267	41,888	45,646	27,694	21,057
Virginia	250,809	226,854	147,697	129,373	79,727	116,363
West Virginia	26,053	26,256	11,456	13,740	120,956	112,442
PAD District II Total	903,197	794,206	576,601	597,077	662,986	691,230
Illinois	32,425	30,808	79,018	95,938	53,891	82,293
Indiana	62,906	55,000	41,931	47,620	71,424	75,290
Iowa	33,645	31,526	15,483	13,930	21,014	16,142
Kansas	755	1,537	24,085	20,586	10,816	12,145
Kentucky	28,792	28,616	51,855	40,640	187,129	170,041
Michigan	167,724	159,320	76,763	83,385	44,156	43,633
Minnesota	150,007	127,576	44,055	38,002	39,696	41,892
Missouri	14,364	13,527	56,897	50,856	34,483	34,298
Nebraska	4,917	3,918	10,015	7,178	4,199	4,396
North Dakota	35,548	26,188	9,062	11,193	6,819	8,642
Ohio	164,172	144,676	58,032	61,008	74,546	77,365
Oklahoma	1,012	154	16,643	24,640	9,080	8,345
South Dakota	27,085	20,134	10,895	11,437	9,850	4,221
Tennessee	11,676	10,293	39,366	35,971	40,766	47,753
Wisconsin	168,168	140,932	42,502	54,693	55,119	64,776
PAD District III Total	656	1,916	184,027	175,257	290,841	315,184
Alabama	437	1,741	24,166	23,377	62,302	58,852
Arkansas	39	31	12,637	11,762	11,304	23,170
Louisiana	28	4	5,842	13,538	24,524	19,424
Mississippi	27	16	17,268	14,354	25,994	39,861
New Mexico	122	116	7,639	7,347	30,167	42,251
Texas	3	8	116,474	104,880	136,549	131,627
PAD District IV Total	37,495	56,712	89,290	88,332	134,538	156,338
Colorado	1,941	2,243	31,834	38,813	14,665	19,369
Idaho	16,978	18,906	19,758	15,275	23,027	25,330
Montana	14,144	29,797	9,941	7,038	18,679	21,552
Utah	3,238	3,817	16,272	17,656	20,511	22,665
Wyoming	1,194	1,950	11,485	9,550	57,657	67,421
PAD District V Total	247,383	226,188	323,520	295,914	439,445	418,602
Alaska	83,778	80,444	51,333	41,206	61,990	33,328
Arizona	419	315	25,715	28,484	110,277	117,481
California	6,423	6,914	111,251	108,215	57,337	61,801
Hawaii	10	20	9,723	17,062	3,834	2,707
Nevada	8,621	11,319	42,911	12,261	146,846	148,472
Oregon	52,404	46,628	39,596	41,385	35,516	38,751
Washington	95,728	80,548	42,990	47,301	23,645	16,062

See footnotes at end of table.

Table 4. Sales of Distillate Fuel Oil by End Use, 1996 and 1997 (Continued)

(Thousand Gallons)

Destination	Oil Company		Farm		Electric Utility	
	1996	1997	1996	1997	1996	1997
U.S. Total	730,676	852,015	3,591,383	3,547,699	657,881	636,002
PAD District I Total	9,932	8,056	409,674	390,596	272,879	238,989
Subdistrict IA Total	558	380	16,587	17,709	20,018	15,277
Connecticut	235	119	2,659	3,093	1,663	2,429
Maine	-	-	3,797	4,222	845	1,556
Massachusetts	229	257	4,148	3,545	12,099	7,512
New Hampshire	-	-	926	1,278	1,609	2,690
Rhode Island	91	1	100	111	3,741	890
Vermont	2	3	4,957	5,460	62	201
Subdistrict IB Total	4,445	3,699	108,154	105,328	106,046	88,133
Delaware	769	1,668	5,647	5,383	8,016	3,105
District of Columbia	-	-	-	-	16,587	12,785
Maryland	134	45	26,691	25,225	23,278	26,835
New Jersey	1,522	463	7,300	6,234	4,974	7,168
New York	1,017	741	33,839	35,833	14,299	9,306
Pennsylvania	1,003	782	34,676	32,652	38,891	28,933
Subdistrict IC Total	4,930	3,978	284,933	267,558	146,815	135,579
Florida	560	570	76,350	81,522	67,739	64,641
Georgia	1,280	766	102,239	89,129	26,214	11,686
North Carolina	115	192	34,423	33,421	22,454	15,943
South Carolina	416	1	24,414	20,984	8,364	21,796
Virginia	1,226	2,140	43,275	39,409	9,831	8,930
West Virginia	1,333	309	4,232	3,093	12,213	12,583
PAD District II Total	49,821	49,654	1,696,468	1,735,937	158,398	174,601
Illinois	1,364	1,565	207,442	209,434	29,294	33,655
Indiana	2,843	4,396	94,802	101,228	17,663	26,752
Iowa	10	-	208,617	211,720	2,357	3,362
Kansas	4,967	5,844	165,362	182,949	6,028	5,208
Kentucky	306	604	32,554	41,397	8,708	9,007
Michigan	2,017	2,068	64,427	57,070	24,541	23,436
Minnesota	-	25	182,324	186,903	9,470	6,454
Missouri	40	82	59,398	60,984	5,102	6,733
Nebraska	628	1,036	177,287	182,347	1,451	2,404
North Dakota	8,449	3,612	105,271	93,925	5,293	5,441
Ohio	1,159	1,454	94,195	93,399	21,594	26,622
Oklahoma	27,858	28,719	77,087	74,001	389	855
South Dakota	79	186	80,785	76,849	1,193	5
Tennessee	100	62	58,642	73,155	17,297	13,828
Wisconsin	2	-	88,273	90,577	8,017	10,840
PAD District III Total	570,782	667,998	842,036	694,421	62,717	47,599
Alabama	9,902	9,057	37,780	36,524	12,298	6,180
Arkansas	1,672	1,870	107,664	114,620	5,412	5,788
Louisiana	339,031	344,220	62,143	55,055	18,006	14,533
Mississippi	1,329	1,557	95,195	108,824	4,265	2,514
New Mexico	19,861	23,800	17,685	14,057	1,500	1,289
Texas	198,986	287,494	521,569	365,341	21,236	17,295
PAD District IV Total	25,986	34,328	204,954	212,108	6,066	6,966
Colorado	7,742	6,007	68,033	67,132	858	444
Idaho	2	1	46,361	48,982	333	33
Montana	1,418	1,744	64,996	61,441	63	15
Utah	4,268	5,272	14,700	19,951	2,149	2,409
Wyoming	12,557	21,304	10,864	14,601	2,663	4,065
PAD District V Total	74,155	91,979	438,252	514,637	157,822	167,847
Alaska	66,990	82,777	2	2	37,660	55,471
Arizona	100	93	27,380	31,761	2,497	3,254
California	5,093	5,321	289,264	364,237	4,107	6,492
Hawaii	664	1,902	8,462	7,130	108,863	100,324
Nevada	505	505	6,472	6,656	1,792	1,709
Oregon	51	124	39,673	44,829	825	441
Washington	752	1,257	66,999	60,021	2,078	157

See footnotes at end of table.

Table 4. Sales of Distillate Fuel Oil by End Use, 1996 and 1997 (Continued)

(Thousand Gallons)

Destination	Railroad		Vessel Bunkering		On-Highway	
	1996	1997	1996	1997	1996	1997
U.S. Total	3,446,939	3,277,802	2,490,793	2,573,800	26,958,668	28,614,022
PAD District I Total	579,618	539,611	523,630	505,046	8,372,128	8,951,981
Subdistrict IA Total	25,354	25,248	73,340	61,578	858,402	913,558
Connecticut	6,338	8,355	2,521	3,267	^E 208,249	216,062
Maine	5,852	6,222	12,726	12,564	135,339	138,527
Massachusetts	12,372	9,742	47,198	33,575	313,984	344,131
New Hampshire	152	128	752	386	60,949	^E 64,481
Rhode Island	97	127	9,669	11,318	44,378	72,916
Vermont	542	675	475	467	95,503	77,441
Subdistrict IB Total	146,456	144,230	140,785	144,148	3,063,474	3,306,771
Delaware	423	433	6,507	2,151	59,290	63,187
District of Columbia	6,283	5,221	2	-	20,949	21,572
Maryland	28,932	31,056	20,645	11,838	355,412	370,944
New Jersey	65,054	54,073	82,680	105,198	532,936	^E 633,028
New York	7,180	9,009	14,157	5,187	924,782	^E 977,851
Pennsylvania	38,584	44,437	16,793	19,774	1,170,105	1,240,189
Subdistrict IC Total	407,808	370,133	309,504	299,321	4,450,252	4,731,652
Florida	106,030	74,037	169,329	148,977	^E 962,504	1,177,788
Georgia	78,361	100,590	10,605	12,068	1,345,755	1,185,844
North Carolina	74,266	69,309	19,715	28,226	794,837	854,189
South Carolina	11,397	14,381	11,093	15,593	458,312	484,503
Virginia	131,296	93,815	26,610	27,331	757,666	832,903
West Virginia	6,458	18,000	72,152	67,125	131,178	^E 196,425
PAD District II Total	1,440,730	1,342,830	486,978	450,919	9,125,173	9,659,243
Illinois	204,872	146,356	47,864	43,711	884,696	936,299
Indiana	130,281	105,586	17,278	40,428	1,036,200	1,121,011
Iowa	67,532	52,827	7,153	6,107	458,660	457,122
Kansas	124,233	88,792	-	-	352,872	^E 364,088
Kentucky	106,426	97,458	149,299	109,544	587,549	683,925
Michigan	44,511	47,775	4,850	5,817	772,262	808,162
Minnesota	73,042	72,781	4,933	2,992	482,131	502,305
Missouri	23,245	26,641	166,736	178,455	767,383	814,212
Nebraska	169,069	197,184	50	73	336,764	316,626
North Dakota	47,410	45,708	-	-	135,043	145,436
Ohio	137,926	161,957	8,619	5,749	1,275,402	1,400,649
Oklahoma	155,215	169,752	150	166	541,337	562,915
South Dakota	1,996	1,859	-	-	141,728	140,377
Tennessee	98,703	87,696	77,901	55,768	754,982	776,452
Wisconsin	56,267	40,457	2,146	2,109	598,164	629,664
PAD District III Total	653,208	680,361	1,115,468	1,197,462	4,522,044	4,738,216
Alabama	52,942	49,779	65,703	69,204	646,567	656,302
Arkansas	67,559	54,161	3,334	3,047	495,380	532,548
Louisiana	28,011	25,523	717,578	778,231	508,414	525,902
Mississippi	24,897	28,913	27,191	40,566	400,100	431,389
New Mexico	22,442	26,294	-	-	314,590	341,429
Texas	457,357	495,691	301,661	306,415	2,156,993	2,250,646
PAD District IV Total	346,232	278,761	260	196	1,094,512	1,224,729
Colorado	100,324	48,369	-	-	273,207	291,105
Idaho	29,101	29,076	241	178	187,828	^E 202,725
Montana	71,530	69,896	3	-	140,625	^E 178,706
Utah	40,899	36,658	16	17	255,192	293,452
Wyoming	104,379	94,761	-	-	237,660	258,741
PAD District V Total	427,151	436,239	364,457	420,176	3,844,811	4,039,853
Alaska	4,495	4,925	143,756	140,831	34,918	^E 68,374
Arizona	3,745	3,636	17	27	543,643	^E 557,464
California	252,463	250,124	100,226	163,933	2,115,704	2,288,069
Hawaii	-	-	23,722	19,824	40,447	28,487
Nevada	8,284	8,760	-	-	^E 244,609	221,981
Oregon	83,034	89,008	23,627	14,308	386,239	^E 408,624
Washington	75,129	79,785	73,109	81,253	479,251	466,854

See footnotes at end of table.

Table 4. Sales of Distillate Fuel Oil by End Use, 1996 and 1997 (Continued)

(Thousand Gallons)

Destination	Military		Off-Highway		All Other		Total	
	1996	1997	1996	1997	1996	1997	1996	1997
U.S. Total	454,443	432,621	2,245,922	2,276,548	-	-	53,379,033	54,366,495
PAD District I Total	81,726	57,503	624,949	600,716	-	-	19,786,887	19,631,529
Subdistrict IA Total	11,281	6,506	75,466	64,414	-	-	3,940,837	3,952,368
Connecticut	3,945	3,761	9,660	7,760	-	-	960,417	961,829
Maine	3,599	798	26,799	21,464	-	-	649,888	638,728
Massachusetts	1,459	1,726	24,077	23,482	-	-	1,483,248	1,490,455
New Hampshire	54	-	9,450	6,110	-	-	339,803	340,549
Rhode Island	1,933	93	3,092	3,366	-	-	258,943	289,459
Vermont	291	128	2,389	2,231	-	-	248,538	231,347
Subdistrict IB Total	37,931	23,663	173,025	165,467	-	-	8,431,642	8,189,310
Delaware	1,355	458	7,117	4,283	-	-	161,547	143,110
District of Columbia	2,048	135	326	609	-	-	101,561	73,847
Maryland	18,370	9,455	24,887	23,311	-	-	930,794	850,718
New Jersey	1,972	1,241	30,784	31,530	-	-	1,515,222	1,520,999
New York	2,401	1,644	48,629	47,982	-	-	3,085,052	3,031,593
Pennsylvania	11,785	10,732	61,282	57,752	-	-	2,637,466	2,569,044
Subdistrict IC Total	32,514	27,333	376,459	370,835	-	-	7,414,407	7,489,851
Florida	7,412	5,424	121,285	122,036	-	-	1,659,994	1,804,620
Georgia	3,037	2,340	73,161	79,962	-	-	1,759,135	1,565,764
North Carolina	3,946	1,482	66,580	59,320	-	-	1,413,037	1,417,539
South Carolina	1,981	3,004	39,822	42,214	-	-	656,326	692,447
Virginia	15,562	15,039	65,571	59,498	-	-	1,529,269	1,551,657
West Virginia	576	45	10,040	7,805	-	-	396,646	457,823
PAD District II Total	22,269	22,318	649,150	655,821	-	-	15,771,771	16,173,836
Illinois	1,428	1,248	71,593	59,653	-	-	1,613,887	1,640,961
Indiana	1,893	376	33,958	37,858	-	-	1,511,180	1,615,545
Iowa	228	2,293	41,918	53,838	-	-	856,619	848,867
Kansas	943	1,147	28,577	28,255	-	-	718,638	710,552
Kentucky	1,408	1,525	45,018	35,187	-	-	1,199,043	1,217,943
Michigan	1,627	373	58,458	70,670	-	-	1,261,334	1,301,707
Minnesota	683	378	60,955	49,802	-	-	1,047,298	1,029,110
Missouri	2,802	1,194	44,342	59,105	-	-	1,174,791	1,246,087
Nebraska	474	620	18,010	16,542	-	-	722,864	732,324
North Dakota	1,874	679	6,030	7,491	-	-	360,800	348,314
Ohio	771	222	73,893	76,694	-	-	1,910,309	2,049,796
Oklahoma	1,794	916	33,248	39,582	-	-	863,812	910,045
South Dakota	1,711	2,413	8,587	8,164	-	-	283,909	265,644
Tennessee	1,403	1,358	62,740	67,554	-	-	1,163,576	1,169,890
Wisconsin	3,230	7,577	61,824	45,427	-	-	1,083,712	1,087,051
PAD District III Total	186,951	169,552	472,755	479,820	-	-	8,901,482	9,167,786
Alabama	3,090	988	111,108	87,329	-	-	1,026,297	999,333
Arkansas	1,680	1,162	26,843	34,258	-	-	733,524	782,417
Louisiana	40,567	18,215	118,717	127,984	-	-	1,862,860	1,922,627
Mississippi	4,473	5,108	45,175	51,773	-	-	645,913	724,875
New Mexico	2,174	2,282	20,246	10,399	-	-	436,426	469,264
Texas	134,968	141,797	150,666	168,077	-	-	4,196,462	4,269,270
PAD District IV Total	4,444	2,941	131,634	138,753	-	-	2,075,412	2,200,163
Colorado	855	868	42,468	40,562	-	-	541,926	514,913
Idaho	517	381	24,896	27,988	-	-	349,041	368,876
Montana	207	194	26,568	20,635	-	-	348,174	391,019
Utah	2,846	1,469	19,652	30,578	-	-	379,742	433,944
Wyoming	20	29	18,051	18,989	-	-	456,529	491,411
PAD District V Total	159,052	180,307	367,433	401,440	-	-	6,843,480	7,193,181
Alaska	5,488	3,502	33,261	39,769	-	-	523,670	550,630
Arizona	1,078	535	38,988	34,679	-	-	753,859	777,730
California	94,422	24,048	164,053	179,294	-	-	3,200,343	3,458,448
Hawaii	19,617	9,211	7,699	15,357	-	-	223,041	202,022
Nevada	1,468	1,570	18,257	20,924	-	-	479,765	434,158
Oregon	2,353	648	35,739	38,692	-	-	699,057	723,438
Washington	34,626	140,795	69,437	72,724	-	-	963,745	1,046,756

^E Estimated data.

Dashes (-) = No data reported.

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

Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 1996 and 1997.

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

Table 5. Sales of Residual Fuel Oil by End Use, 1996 and 1997

(Thousand Gallons)

Destination	Commercial		Industrial		Oil Company		Electric Utility	
	1996	1997	1996	1997	1996	1997	1996	1997
U.S. Total	927,834	789,674	2,089,436	1,898,611	167,425	160,477	4,304,492	4,599,084
PAD District I Total	892,897	757,944	1,595,527	1,462,795	101,783	68,545	3,657,186	3,849,646
Subdistrict IA Total	194,722	193,704	503,004	451,268	822	233	940,989	1,415,233
Connecticut	19,327	14,335	40,733	16,846	243	233	419,126	546,560
Maine	21,593	26,195	328,008	297,931	-	-	60,487	103,790
Massachusetts	103,341	99,935	71,286	76,852	580	-	407,212	734,992
New Hampshire	19,010	21,151	40,680	37,007	-	-	54,164	29,891
Rhode Island	28,371	27,132	13,378	13,152	-	-	-	-
Vermont	3,081	4,956	8,919	9,480	-	-	-	-
Subdistrict IB Total	671,825	544,746	334,383	271,866	100,576	67,389	1,166,608	887,574
Delaware	9,410	8,663	39,056	35,171	23,018	19,075	68,711	68,252
District of Columbia	4,074	1,539	10	-	-	-	-	-
Maryland	4,572	2,224	57,229	36,768	653	664	76,380	92,475
New Jersey	54,474	35,422	68,261	57,959	2,341	2,549	143,806	18,108
New York	543,869	450,968	103,534	86,772	893	920	718,952	643,544
Pennsylvania	55,425	45,929	66,294	55,195	73,672	44,182	158,759	65,197
Subdistrict IC Total	26,350	19,494	758,140	739,662	384	923	1,549,590	1,546,839
Florida	4,198	5,546	158,621	150,408	78	361	1,502,436	1,499,101
Georgia	449	266	146,479	136,497	-	-	4,113	2,117
North Carolina	9,340	7,538	266,980	247,221	-	-	-	-
South Carolina	1,592	450	95,334	87,974	144	141	-	1,129
Virginia	10,770	5,693	75,935	107,244	162	421	43,041	44,492
West Virginia	-	-	14,792	10,317	-	-	-	-
PAD District II Total	22,117	26,394	255,397	218,189	28,733	52,951	97,019	82,102
Illinois	8,061	5,770	21,195	28,873	3,979	1,342	45,194	20,009
Indiana	577	393	43,439	25,257	-	22,725	-	-
Iowa	34	-	3,963	3,190	-	-	-	-
Kansas	76	-	5,637	7,477	-	-	-	14,690
Kentucky	7	-	6,647	4,149	3,681	3,220	-	-
Michigan	194	2,474	15,022	13,974	2,610	4,504	39,797	36,120
Minnesota	5,881	7,122	18,387	16,471	8,959	6,710	3,417	3,744
Missouri	240	1,485	13,120	8,014	-	-	8,004	7,392
Nebraska	-	422	7,114	4,486	-	-	-	-
North Dakota	247	400	5,504	3,641	-	4,284	5	65
Ohio	73	90	63,305	48,627	4,726	4,270	602	82
Oklahoma	-	-	10,994	11,563	-	-	-	-
South Dakota	-	375	1,700	2,461	-	-	-	-
Tennessee	1,178	1,972	7,566	4,760	113	63	-	-
Wisconsin	5,550	5,891	31,801	35,245	4,665	5,832	-	-
PAD District III Total	59	-	168,522	163,741	-	6	79,902	223,555
Alabama	24	-	29,974	26,765	-	-	-	-
Arkansas	9	-	4,915	931	-	6	4,849	2,269
Louisiana	26	-	31,670	45,220	-	-	5,675	33,155
Mississippi	-	-	4,778	1,373	-	-	69,336	186,282
New Mexico	-	-	8,239	7,003	-	-	-	-
Texas	-	-	88,946	82,449	-	-	43	1,849
PAD District IV Total	865	576	3,659	3,336	7,488	10,356	-	-
Colorado	-	-	168	131	-	-	-	-
Idaho	179	36	96	56	-	-	-	-
Montana	106	50	99	-	7,488	7,181	-	-
Utah	574	482	3,087	2,985	-	3,175	-	-
Wyoming	6	7	209	164	-	-	-	-
PAD District V Total	11,896	4,761	66,332	50,550	29,421	28,620	470,384	443,780
Alaska	-	-	16,456	6,186	-	-	-	-
Arizona	204	-	3,382	628	-	-	-	-
California	520	76	11,478	3,611	1,427	932	-	-
Hawaii	535	490	10,858	10,986	27,256	26,710	470,307	443,728
Nevada	-	31	5,368	9,148	114	45	-	-
Oregon	3,511	2,157	5,680	7,409	-	-	77	52
Washington	7,125	2,006	13,109	12,582	624	932	-	-

See footnotes at end of table.

Table 5. Sales of Residual Fuel Oil by End Use, 1996 and 1997 (Continued)

(Thousand Gallons)

Destination	Vessel Bunkering		Military		All Other		Total	
	1996	1997	1996	1997	1996	1997	1996	1997
U.S. Total	5,701,233	5,010,059	56,225	42,164	10,354	4,065	13,256,998	12,504,135
PAD District I Total	1,336,126	1,399,153	39,403	34,641	7,653	3,898	7,630,574	7,576,621
Subdistrict IA Total	84,532	61,648	11,012	6,027	348	511	1,735,428	2,128,624
Connecticut	174	238	1,352	857	-	186	480,955	579,254
Maine	2,019	10	6,556	4,784	348	291	419,010	433,002
Massachusetts	82,041	61,209	3,104	387	-	34	667,562	973,408
New Hampshire	209	130	-	-	-	-	114,063	88,179
Rhode Island	91	60	-	-	-	-	41,840	40,345
Vermont	-	-	-	-	-	-	11,999	14,436
Subdistrict IB Total	774,069	822,238	13,767	14,141	-	-	3,061,228	2,607,954
Delaware	84,114	73,277	792	1,076	-	-	225,102	205,514
District of Columbia	-	-	-	-	-	-	4,084	1,539
Maryland	25,512	26,375	6,611	5,929	-	-	170,957	164,435
New Jersey	251,288	290,401	4,213	6,977	-	-	524,381	411,416
New York	273,006	228,003	874	-	-	-	1,641,127	1,410,207
Pennsylvania	140,149	204,182	1,278	159	-	-	495,577	414,843
Subdistrict IC Total	477,525	515,267	14,624	14,473	7,305	3,386	2,833,917	2,840,042
Florida	343,976	376,345	1,552	2,327	7,253	2,750	2,018,114	2,036,837
Georgia	52,604	49,330	-	12	-	-	203,644	188,222
North Carolina	7,437	8,830	6,517	3,522	52	637	290,327	267,748
South Carolina	25,272	19,564	2,868	4,973	-	-	125,209	114,232
Virginia	48,065	61,198	3,687	3,639	-	-	181,661	222,686
West Virginia	171	-	-	-	-	-	14,963	10,317
PAD District II Total	23,991	26,055	646	382	-	59	427,903	406,131
Illinois	1,263	2,106	21	3	-	-	79,713	58,104
Indiana	12,447	17,609	-	-	-	-	56,463	65,984
Iowa	-	-	-	-	-	-	3,998	3,190
Kansas	-	-	-	-	-	-	5,713	22,167
Kentucky	-	-	-	-	-	-	10,334	7,369
Michigan	5,103	2,306	120	-	-	25	62,847	59,403
Minnesota	-	425	-	-	-	-	36,644	34,473
Missouri	243	278	505	379	-	-	22,111	17,547
Nebraska	-	-	-	-	-	-	7,114	4,909
North Dakota	-	-	-	-	-	-	5,757	8,390
Ohio	3,506	2,612	-	-	-	-	72,212	55,681
Oklahoma	-	-	-	-	-	-	10,994	11,563
South Dakota	-	-	-	-	-	-	1,700	2,836
Tennessee	89	179	-	-	-	-	8,946	6,975
Wisconsin	1,341	540	-	-	-	34	43,357	47,542
PAD District III Total	2,014,085	1,914,358	4,682	700	30	44	2,267,280	2,302,404
Alabama	104,103	86,673	-	-	-	-	134,101	113,438
Arkansas	-	-	-	-	-	-	9,773	3,205
Louisiana	1,081,956	869,435	1,847	700	-	-	1,121,173	948,510
Mississippi	71,219	55,824	-	-	-	-	145,332	243,479
New Mexico	-	-	-	-	30	44	8,270	7,047
Texas	756,807	902,426	2,835	-	-	-	848,631	986,724
PAD District IV Total	-	-	7	-	69	61	12,089	14,329
Colorado	-	-	7	-	4	17	179	148
Idaho	-	-	-	-	5	4	280	97
Montana	-	-	-	-	-	-	7,693	7,231
Utah	-	-	-	-	23	23	3,685	6,666
Wyoming	-	-	-	-	38	16	253	188
PAD District V Total	2,327,031	1,670,493	11,488	6,442	2,601	4	2,919,153	2,204,649
Alaska	149	96	-	-	-	-	16,606	6,283
Arizona	-	-	-	-	-	-	3,586	628
California	1,650,161	945,817	7,374	3,538	27	-	1,670,988	953,975
Hawaii	26,450	19,549	3,398	2,291	2,574	-	541,377	503,754
Nevada	-	-	-	-	-	-	5,482	9,224
Oregon	128,963	144,373	-	-	-	-	138,233	153,991
Washington	521,308	560,658	716	612	-	4	542,881	576,795

Dashes (-) = No data reported.

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

Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 1996 and 1997.

Table 6. Sales of Kerosene by End Use, 1996 and 1997

(Thousand Gallons)

Destination	Residential		Commercial		Industrial	
	1996	1997	1996	1997	1996	1997
U.S. Total	657,636	688,025	155,792	182,559	102,322	110,738
PAD District I Total	530,407	555,496	116,949	146,401	65,977	66,284
Subdistrict IA Total	95,280	100,429	13,593	18,515	2,962	5,190
Connecticut	5,217	6,020	3,012	4,357	1,062	1,608
Maine	57,548	55,003	6,222	6,581	453	1,388
Massachusetts	6,219	7,965	1,965	1,953	474	710
New Hampshire	16,486	19,986	1,746	2,437	435	762
Rhode Island	1,268	1,441	82	2,322	119	132
Vermont	8,542	10,015	566	865	420	591
Subdistrict IB Total	206,836	222,668	75,937	97,417	47,702	48,276
Delaware	7,574	5,087	260	656	2,017	246
District of Columbia	259	247	4,251	8,495	-	18
Maryland	24,925	25,085	6,324	9,531	1,305	1,121
New Jersey	11,912	12,283	10,216	31,496	13,030	27,498
New York	60,898	73,256	31,554	33,660	27,225	14,508
Pennsylvania	101,268	106,710	23,333	13,578	4,125	4,884
Subdistrict IC Total	228,291	232,399	27,418	30,469	15,312	12,818
Florida	11,067	8,485	4,445	2,257	1,230	2,085
Georgia	6,047	5,685	1,311	1,169	1,379	762
North Carolina	106,932	109,345	7,496	8,611	5,399	4,154
South Carolina	23,570	25,640	977	677	3,417	2,629
Virginia	64,847	66,479	11,651	15,615	1,485	802
West Virginia	15,829	16,765	1,538	2,140	2,401	2,386
PAD District II Total	107,822	108,138	30,506	29,328	19,453	19,238
Illinois	4,020	4,576	2,826	4,531	4,917	3,831
Indiana	12,096	12,707	2,887	3,639	1,903	1,257
Iowa	1,247	1,185	184	343	118	208
Kansas	808	486	208	1,169	115	175
Kentucky	18,410	20,393	4,649	4,751	3,092	3,973
Michigan	9,646	10,683	6,278	2,331	937	1,014
Minnesota	2,558	2,168	1,123	1,072	97	64
Missouri	2,368	1,879	1,138	862	1,034	341
Nebraska	159	294	167	109	44	20
North Dakota	224	224	74	22	3	6
Ohio	34,377	32,503	6,507	5,318	5,204	6,351
Oklahoma	843	585	210	684	181	298
South Dakota	216	245	25	24	8	10
Tennessee	19,139	18,357	3,722	4,159	1,357	1,317
Wisconsin	1,711	1,852	510	314	444	373
PAD District III Total	6,706	10,068	2,768	2,949	10,679	16,264
Alabama	2,675	2,407	392	374	1,988	2,474
Arkansas	493	789	222	220	299	166
Louisiana	707	3,865	313	110	971	902
Mississippi	941	901	233	533	796	1,209
New Mexico	274	224	31	120	331	202
Texas	1,616	1,881	1,577	1,593	6,293	11,311
PAD District IV Total	1,626	1,310	585	462	1,158	1,249
Colorado	868	799	245	205	62	66
Idaho	526	158	153	44	7	169
Montana	28	73	20	10	3	3
Utah	176	217	119	149	73	96
Wyoming	29	63	49	54	1,013	915
PAD District V Total	11,075	13,013	4,984	3,419	5,055	7,703
Alaska	12	6	6	14	4	-
Arizona	118	96	102	160	47	77
California	4,343	5,657	2,889	1,737	4,404	7,261
Hawaii	1	1	2	7	15	13
Nevada	263	229	64	32	55	60
Oregon	1,700	1,438	1,580	927	205	74
Washington	4,640	5,587	342	542	326	218

See footnotes at end of table.

Table 6. Sales of Kerosene by End Use, 1996 and 1997 (Continued)

(Thousand Gallons)

Destination	Farm		All Other		Total	
	1996	1997	1996	1997	1996	1997
U.S. Total	26,017	21,556	7,223	7,054	948,990	1,009,932
PAD District I Total	9,408	7,880	3,008	2,563	725,749	778,624
Subdistrict IA Total	974	908	236	243	113,046	125,286
Connecticut	9	16	-	-	9,300	12,000
Maine	239	228	40	36	64,502	63,237
Massachusetts	106	139	26	24	8,788	10,791
New Hampshire	186	239	81	88	18,934	23,513
Rhode Island	-	-	1	2	1,470	3,897
Vermont	434	285	88	93	10,050	11,848
Subdistrict IB Total	2,702	1,430	2,244	1,434	335,421	371,224
Delaware	35	22	1	-	9,886	6,012
District of Columbia	-	-	-	-	4,510	8,761
Maryland	875	574	265	23	33,693	36,335
New Jersey	38	17	140	141	35,337	71,435
New York	1,099	267	337	381	121,113	122,072
Pennsylvania	655	549	1,501	889	130,882	126,610
Subdistrict IC Total	5,732	5,541	528	886	277,282	282,114
Florida	140	89	8	20	16,891	12,936
Georgia	2	17	159	226	8,898	7,859
North Carolina	1,433	2,081	105	464	121,364	124,655
South Carolina	279	188	11	34	28,254	29,168
Virginia	3,239	2,938	59	97	81,282	85,930
West Virginia	639	229	186	46	20,593	21,566
PAD District II Total	14,878	11,647	2,916	3,462	175,575	171,813
Illinois	4,303	1,805	666	654	16,733	15,397
Indiana	1,331	1,337	296	353	18,513	19,294
Iowa	691	901	23	23	2,262	2,660
Kansas	397	512	21	94	1,549	2,436
Kentucky	1,729	1,550	273	199	28,152	30,865
Michigan	382	515	429	329	17,672	14,873
Minnesota	1,190	940	191	46	5,158	4,289
Missouri	302	114	49	50	4,892	3,245
Nebraska	315	464	125	94	810	981
North Dakota	7	19	15	13	322	284
Ohio	3,488	2,666	592	1,218	50,167	48,057
Oklahoma	62	265	55	67	1,351	1,899
South Dakota	99	81	15	8	364	368
Tennessee	264	309	104	228	24,586	24,369
Wisconsin	318	169	62	87	3,046	2,794
PAD District III Total	516	620	517	606	21,185	30,506
Alabama	8	12	19	62	5,082	5,329
Arkansas	52	147	34	104	1,099	1,425
Louisiana	69	12	214	235	2,274	5,123
Mississippi	84	62	9	11	2,064	2,717
New Mexico	13	51	59	7	709	604
Texas	290	336	182	187	9,958	15,308
PAD District IV Total	186	541	126	68	3,681	3,630
Colorado	120	125	71	32	1,366	1,227
Idaho	35	381	5	-	726	752
Montana	3	2	1	-	54	89
Utah	20	28	7	16	394	506
Wyoming	9	5	41	20	1,141	1,057
PAD District V Total	1,029	869	657	354	22,801	25,358
Alaska	-	-	1	1	23	22
Arizona	5	12	17	2	288	346
California	359	224	365	150	12,360	15,030
Hawaii	3	-	-	-	22	21
Nevada	15	10	3	-	399	330
Oregon	71	53	182	117	3,737	2,610
Washington	576	569	89	83	5,972	6,999

Dashes (-) = No data reported.

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

Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 1996 and 1997.

Table 7. Sales for Residential Use: Distillate Fuel Oil and Kerosene, 1997
(Thousand Gallons)

Destination	Distillate Fuel Oil			Kerosene
	No. 1	No. 2	Total	
U.S. Total	178,993	6,352,422	6,531,415	688,025
PAD District I Total	19,076	5,433,318	5,452,394	555,496
Subdistrict IA Total	14,084	2,128,274	2,142,358	100,429
Connecticut	266	563,143	563,409	6,020
Maine	3,025	319,257	322,282	55,003
Massachusetts	8,874	788,714	797,588	7,965
New Hampshire	890	200,789	201,679	19,986
Rhode Island	1,028	155,917	156,945	1,441
Vermont	-	100,454	100,454	10,015
Subdistrict IB Total	3,066	2,871,767	2,874,833	222,668
Delaware	-	39,382	39,382	5,087
District of Columbia	-	11,230	11,230	247
Maryland	1,168	217,055	218,223	25,085
New Jersey	674	493,601	494,275	12,283
New York	-	1,277,703	1,277,703	73,256
Pennsylvania	1,223	832,796	834,019	106,710
Subdistrict IC Total	1,926	433,277	435,203	232,399
Florida	31	6,290	6,321	8,485
Georgia	49	3,388	3,437	5,685
North Carolina	98	148,969	149,067	109,345
South Carolina	611	22,656	23,267	25,640
Virginia	815	226,039	226,854	66,479
West Virginia	322	25,935	26,257	16,765
PAD District II Total	93,778	700,428	794,206	108,138
Illinois	4,742	26,066	30,808	4,576
Indiana	7,958	47,042	55,000	12,707
Iowa	6,653	24,873	31,526	1,185
Kansas	367	1,170	1,537	486
Kentucky	887	27,729	28,616	20,393
Michigan	16,308	143,012	159,320	10,683
Minnesota	26,175	101,401	127,576	2,168
Missouri	2,859	10,667	13,526	1,879
Nebraska	1,991	1,927	3,918	294
North Dakota	4,703	21,485	26,188	224
Ohio	2,977	141,699	144,676	32,503
Oklahoma	21	133	154	585
South Dakota	5,450	14,684	20,134	245
Tennessee	1,518	8,774	10,292	18,357
Wisconsin	11,168	129,764	140,932	1,852
PAD District III Total	59	1,857	1,916	10,068
Alabama	42	1,700	1,742	2,407
Arkansas	3	28	31	789
Louisiana	-	4	4	3,865
Mississippi	-	16	16	901
New Mexico	15	102	117	224
Texas	-	8	8	1,881
PAD District IV Total	28,011	28,701	56,712	1,310
Colorado	249	1,994	2,243	799
Idaho	2,830	16,076	18,906	158
Montana	24,075	5,722	29,797	73
Utah	347	3,470	3,817	217
Wyoming	510	1,439	1,949	63
PAD District V Total	38,069	188,119	226,188	13,013
Alaska	29,454	50,990	80,444	6
Arizona	68	247	315	96
California	423	6,491	6,914	5,657
Hawaii	-	20	20	1
Nevada	568	10,751	11,319	229
Oregon	3,638	42,989	46,627	1,438
Washington	3,918	76,630	80,548	5,587

Dashes (-) = No data reported.

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

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

• Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1997, (DOE/EIA-0340(97)/1).

Table 8. Sales for Commercial Use: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 1997
(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	129,022	1,425,953	1,000,171	488,114	2,914,238	271,696	3,314,956	789,674	182,559
PAD District I Total	4,804	1,278,266	391,968	212,810	1,883,045	270,527	2,158,376	757,944	146,401
Subdistrict IA Total	1,865	430,725	75,411	31,417	537,554	64,484	603,904	193,704	18,515
Connecticut	278	95,892	16,332	7,507	119,731	7,686	127,696	14,335	4,357
Maine	261	76,838	17,190	3,513	97,542	4,478	102,281	26,195	6,581
Massachusetts	—	170,306	19,087	14,675	204,068	42,956	247,024	99,935	1,953
New Hampshire	295	41,777	10,357	833	52,967	4,392	57,654	21,151	2,437
Rhode Island	1,016	21,682	4,672	1,930	28,283	2,988	32,287	27,132	2,322
Vermont	15	24,230	7,773	2,959	34,963	1,984	36,962	4,956	865
Subdistrict IB Total	2,618	707,804	149,624	65,008	922,436	200,694	1,125,748	544,746	97,417
Delaware	—	7,947	2,580	1,278	11,805	2,921	14,726	8,663	656
District of Columbia	—	17,431	1,454	1,413	20,299	1,712	22,010	1,539	8,495
Maryland	1,433	50,552	35,553	19,117	105,222	1,280	107,936	2,224	9,531
New Jersey	7	97,995	23,195	6,679	127,869	20,313	148,189	35,422	31,496
New York	1,121	394,639	51,836	8,457	454,933	167,710	623,764	450,968	33,660
Pennsylvania	57	139,241	35,005	28,063	202,309	6,758	209,123	45,929	13,578
Subdistrict IC Total	321	139,737	166,934	116,385	423,055	5,349	428,725	19,494	30,469
Florida	—	6,703	53,223	17,583	77,508	173	77,682	5,546	2,257
Georgia	95	3,845	23,285	9,020	36,150	1,552	37,797	266	1,169
North Carolina	22	47,419	24,182	49,911	121,512	2,951	124,485	7,538	8,611
South Carolina	8	4,226	31,122	10,283	45,632	7	45,646	450	677
Virginia	82	74,710	28,776	25,264	128,749	543	129,373	5,693	15,615
West Virginia	114	2,834	6,345	4,324	13,503	123	13,740	—	2,140
PAD District II Total	84,888	119,289	251,804	140,531	511,624	565	597,077	26,394	29,328
Illinois	35,169	15,836	23,943	20,878	60,656	113	95,938	5,770	4,531
Indiana	2,802	18,018	17,103	9,697	44,819	—	47,620	393	3,639
Iowa	2,390	2,192	8,453	892	11,537	3	13,930	—	343
Kansas	2,805	1,354	14,089	2,339	17,781	—	20,586	—	1,169
Kentucky	194	4,033	24,458	11,827	40,318	128	40,640	—	4,751
Michigan	22,022	14,371	34,767	12,139	61,278	85	83,385	2,474	2,331
Minnesota	3,759	14,251	13,566	6,394	34,210	32	38,002	7,122	1,072
Missouri	2,270	2,797	18,666	27,066	48,529	57	50,856	1,485	862
Nebraska	2,541	530	2,720	1,387	4,636	—	7,178	422	109
North Dakota	1,752	5,846	3,047	548	9,440	—	11,193	400	22
Ohio	926	9,730	24,604	25,742	60,075	7	61,008	90	5,318
Oklahoma	986	116	21,445	2,093	23,654	—	24,640	—	684
South Dakota	1,897	5,512	2,157	1,868	9,536	4	11,437	375	24
Tennessee	257	3,575	20,053	11,982	35,609	104	35,971	1,972	4,159
Wisconsin	5,116	21,129	22,735	5,681	49,545	32	54,693	5,891	314
PAD District III Total	5,179	2,982	109,209	57,783	169,974	104	175,257	—	2,949
Alabama	—	1,459	13,646	8,168	23,273	104	23,377	—	374
Arkansas	26	5	7,132	4,599	11,736	—	11,762	—	220
Louisiana	144	601	3,998	8,795	13,393	—	13,538	—	110
Mississippi	24	—	9,385	4,945	14,330	—	14,354	—	533
New Mexico	223	16	6,448	660	7,124	—	7,347	—	120
Texas	4,761	902	68,600	30,617	100,118	—	104,880	—	1,593
PAD District IV Total	11,433	6,785	60,822	9,291	76,898	—	88,332	576	462
Colorado	5,491	1,187	31,696	439	33,322	—	38,813	—	205
Idaho	1,218	1,431	7,981	4,645	14,057	—	15,275	36	44
Montana	1,524	1,593	3,687	234	5,514	—	7,038	50	10
Utah	1,126	518	12,306	3,706	16,529	—	17,656	482	149
Wyoming	2,075	2,056	5,152	267	7,475	—	9,550	7	54
PAD District V Total	22,718	18,630	186,367	67,699	272,696	500	295,914	4,761	3,419
Alaska	15,691	8,422	4,767	11,832	25,020	495	41,206	—	14
Arizona	231	45	25,745	2,463	28,253	—	28,484	—	160
California	211	1,940	95,028	11,036	108,004	—	108,215	76	1,737
Hawaii	2	88	13,576	3,395	17,060	—	17,062	490	7
Nevada	721	1,947	7,638	1,955	11,539	—	12,261	31	32
Oregon	2,208	3,267	16,683	19,222	39,172	6	41,385	2,157	927
Washington	3,653	2,920	22,931	17,796	43,647	—	47,301	2,006	542

Dashes (-) = No data reported.

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

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

• Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1997, (DOE/EIA-0340(97)/1).

Table 9. Sales for Industrial Use: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 1997
(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	61,379	432,296	608,995	1,145,216	2,186,507	61,729	2,309,615	1,898,611	110,738
PAD District I Total	2,366	268,283	92,824	319,059	680,167	45,729	728,262	1,462,795	66,284
Subdistrict IA Total	63	67,096	9,766	7,298	84,160	17,212	101,435	451,268	5,190
Connecticut	-	17,212	693	83	17,988	7,890	25,878	16,846	1,608
Maine	63	25,243	1,756	999	27,998	752	28,813	297,931	1,388
Massachusetts	-	10,667	3,925	3,271	17,863	4,011	21,874	76,852	710
New Hampshire	-	1,836	787	2,161	4,784	1,359	6,143	37,007	762
Rhode Island	-	6,868	2,124	537	9,528	1,875	11,403	13,152	132
Vermont	-	5,271	481	247	5,999	1,326	7,325	9,480	591
Subdistrict IB Total	538	102,795	32,428	51,450	186,673	20,080	207,291	271,866	48,276
Delaware	8	1,500	5,183	871	7,554	772	8,334	35,171	246
District of Columbia	-	270	2	12	285	-	285	-	18
Maryland	495	11,461	6,705	6,286	24,451	904	25,850	36,768	1,121
New Jersey	2	24,579	1,742	5,708	32,030	7,566	39,599	57,959	27,498
New York	-	28,554	4,035	4,136	36,725	5,848	42,573	86,772	14,508
Pennsylvania	33	36,431	14,761	34,437	85,628	4,990	90,650	55,195	4,884
Subdistrict IC Total	1,765	98,393	50,630	260,311	409,333	8,437	419,536	739,662	12,818
Florida	-	10,383	13,594	18,140	42,117	3,506	45,623	150,408	2,085
Georgia	-	11,219	4,830	25,607	41,656	489	42,144	136,497	762
North Carolina	-	32,933	13,542	32,130	78,606	3,301	81,906	247,221	4,154
South Carolina	-	9,060	2,950	8,845	20,855	202	21,057	87,974	2,629
Virginia	24	18,243	9,234	87,923	115,400	940	116,363	107,244	802
West Virginia	1,741	16,554	6,480	87,666	110,701	-	112,442	10,317	2,386
PAD District II Total	30,578	143,532	135,724	375,364	654,619	6,032	691,230	218,189	19,238
Illinois	2,449	10,883	11,277	57,673	79,834	10	82,293	28,873	3,831
Indiana	1,935	28,775	21,597	22,938	73,309	46	75,290	25,257	1,257
Iowa	1,476	1,886	11,063	1,522	14,471	195	16,142	3,190	208
Kansas	532	2,086	4,188	5,333	11,607	6	12,145	7,477	175
Kentucky	397	12,302	11,169	144,210	167,681	1,963	170,041	4,149	3,973
Michigan	534	10,592	14,265	18,242	43,099	-	43,633	13,974	1,014
Minnesota	7,023	15,037	10,889	8,645	34,572	297	41,892	16,471	64
Missouri	2,322	8,537	13,995	8,519	31,052	924	34,298	8,014	341
Nebraska	712	205	1,027	1,967	3,199	484	4,396	4,486	20
North Dakota	1,722	4,348	1,119	1,452	6,919	-	8,642	3,641	6
Ohio	650	10,397	9,386	56,022	75,805	910	77,365	48,627	6,351
Oklahoma	89	215	1,350	6,628	8,193	63	8,345	11,563	298
South Dakota	811	740	1,983	587	3,311	99	4,221	2,461	10
Tennessee	-	6,383	11,402	28,997	46,782	971	47,753	4,760	1,317
Wisconsin	9,926	31,145	11,012	12,628	54,785	64	64,776	35,245	373
PAD District III Total	3,810	8,895	107,283	191,394	307,573	3,801	315,184	163,741	16,264
Alabama	-	5,815	17,345	35,454	58,614	238	58,852	26,765	2,474
Arkansas	-	144	1,671	19,190	21,005	2,165	23,170	931	166
Louisiana	-	311	2,125	16,987	19,424	-	19,424	45,220	902
Mississippi	-	2,031	12,002	24,430	38,462	1,399	39,861	1,373	1,209
New Mexico	3,804	594	21,545	16,307	38,446	-	42,251	7,003	202
Texas	6	-	52,595	79,026	131,621	-	131,627	82,449	11,311
PAD District IV Total	12,350	3,679	116,103	23,955	143,738	251	156,338	3,336	1,249
Colorado	1,707	65	15,624	1,973	17,662	-	19,369	131	66
Idaho	2,430	1,155	7,605	14,140	22,900	-	25,330	56	169
Montana	2,333	802	17,474	942	19,217	2	21,552	-	3
Utah	861	416	15,249	6,128	21,793	11	22,665	2,985	96
Wyoming	5,019	1,241	60,152	772	62,165	237	67,421	164	915
PAD District V Total	12,275	7,907	157,060	235,444	400,411	5,916	418,602	50,550	7,703
Alaska	5,276	2,732	3,254	22,067	28,052	-	33,328	6,186	-
Arizona	2,802	-	36,514	78,064	114,577	102	117,481	628	77
California	53	1,154	51,092	4,056	56,302	5,447	61,801	3,611	7,261
Hawaii	-	59	1,203	1,445	2,707	-	2,707	10,986	13
Nevada	3,744	38	44,256	100,434	144,727	-	148,472	9,148	60
Oregon	361	3,098	14,087	20,837	38,023	367	38,751	7,409	74
Washington	38	825	6,655	8,543	16,023	1	16,062	12,582	218

Dashes (-) = No data reported.

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

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

• Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1997, (DOE/EIA-0340(97)/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, 1997
(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	3,449,347	98,352	3,547,699	21,556	636,002	4,599,084	852,015	160,477
PAD District I Total	349,589	41,006	390,596	7,880	238,989	3,849,646	8,056	68,545
Subdistrict IA Total	12,043	5,667	17,709	908	15,277	1,415,233	380	233
Connecticut	2,468	625	3,093	16	2,429	546,560	119	233
Maine	2,284	1,938	4,222	228	1,556	103,790	-	-
Massachusetts	1,976	1,570	3,545	139	7,512	734,992	257	-
New Hampshire	875	403	1,278	239	2,690	29,891	-	-
Rhode Island	79	32	111	-	890	-	1	-
Vermont	4,361	1,099	5,460	285	201	-	3	-
Subdistrict IB Total	86,319	19,008	105,328	1,430	88,133	887,574	3,699	67,389
Delaware	5,378	5	5,383	22	3,105	68,252	1,668	19,075
District of Columbia	-	-	-	-	12,785	-	-	-
Maryland	23,512	1,712	25,225	574	26,835	92,475	45	664
New Jersey	4,213	2,021	6,234	17	7,168	18,108	463	2,549
New York	25,861	9,972	35,833	267	9,306	643,544	741	920
Pennsylvania	27,355	5,297	32,652	549	28,933	65,197	782	44,182
Subdistrict IC Total	251,227	16,331	267,558	5,541	135,579	1,546,839	3,978	923
Florida	81,350	172	81,522	89	64,641	1,499,101	570	361
Georgia	88,393	736	89,129	17	11,686	2,117	766	-
North Carolina	29,847	3,573	33,421	2,081	15,943	-	192	-
South Carolina	14,540	6,445	20,984	188	21,796	1,129	1	141
Virginia	34,086	5,323	39,409	2,938	8,930	44,492	2,140	421
West Virginia	3,011	82	3,093	229	12,583	-	309	-
PAD District II Total	1,686,474	49,463	1,735,937	11,647	174,601	82,102	49,654	52,951
Illinois	205,673	3,761	209,434	1,805	33,655	20,009	1,565	1,342
Indiana	99,543	1,684	101,228	1,337	26,752	-	4,396	22,725
Iowa	203,409	8,311	211,720	901	3,362	-	-	-
Kansas	182,533	416	182,949	512	5,208	14,690	5,844	-
Kentucky	40,836	561	41,397	1,550	9,007	-	604	3,220
Michigan	53,005	4,064	57,070	515	23,436	36,120	2,068	4,504
Minnesota	174,751	12,152	186,903	940	6,454	3,744	25	6,710
Missouri	60,926	57	60,984	114	6,733	7,392	82	-
Nebraska	181,610	737	182,347	464	2,404	-	1,036	-
North Dakota	91,974	1,952	93,925	19	5,441	65	3,612	4,284
Ohio	88,207	5,192	93,399	2,666	26,622	82	1,454	4,270
Oklahoma	73,449	553	74,001	265	855	-	28,719	-
South Dakota	74,279	2,570	76,849	81	5	-	186	-
Tennessee	73,030	125	73,155	309	13,828	-	62	63
Wisconsin	83,249	7,327	90,577	169	10,840	-	-	5,832
PAD District III Total	691,834	2,586	694,421	620	47,599	223,555	667,998	6
Alabama	36,516	8	36,524	12	6,180	-	9,057	-
Arkansas	114,334	286	114,620	147	5,788	2,269	1,870	6
Louisiana	55,055	-	55,055	12	14,533	33,155	344,220	-
Mississippi	108,373	451	108,824	62	2,514	186,282	1,557	-
New Mexico	14,054	3	14,057	51	1,289	-	23,800	-
Texas	363,502	1,839	365,341	336	17,295	1,849	287,494	-
PAD District IV Total	210,270	1,838	212,108	541	6,966	-	34,328	10,356
Colorado	66,627	505	67,132	125	444	-	6,007	-
Idaho	48,780	203	48,982	381	33	-	1	-
Montana	60,517	924	61,441	2	15	-	1,744	7,181
Utah	19,806	146	19,951	28	2,409	-	5,272	3,175
Wyoming	14,540	61	14,601	5	4,065	-	21,304	-
PAD District V Total	511,179	3,457	514,637	869	167,847	443,780	91,979	28,620
Alaska	1	1	2	-	55,471	-	82,777	-
Arizona	31,761	-	31,761	12	3,254	-	93	-
California	363,827	409	364,237	224	6,492	-	5,321	932
Hawaii	6,470	661	7,130	-	100,324	443,728	1,902	26,710
Nevada	6,656	-	6,656	10	1,709	-	505	45
Oregon	42,860	1,969	44,829	53	441	52	124	-
Washington	59,603	418	60,021	569	157	-	1,257	932

Dashes (-) = No data reported.

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

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

• Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1997, (DOE/EIA-0340(97)/1).

Table 11. Sales for Transportation Use: Distillate Fuel Oil and Residual Fuel Oil, 1997
(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	3,277,802	2,573,800	5,010,059	28,614,022	34,465,623	5,010,059
PAD District I Total	539,611	505,046	1,399,153	8,951,981	9,996,638	1,399,153
Subdistrict IA Total	25,248	61,578	61,648	913,558	1,000,384	61,648
Connecticut	8,355	3,267	238	216,062	227,684	238
Maine	6,222	12,564	10	138,527	157,313	10
Massachusetts	9,742	33,575	61,209	344,131	387,448	61,209
New Hampshire	128	386	130	^E 64,481	64,995	130
Rhode Island	127	11,318	60	72,916	84,361	60
Vermont	675	467	-	77,441	78,583	-
Subdistrict IB Total	144,230	144,148	822,238	3,306,771	3,595,149	822,238
Delaware	433	2,151	73,277	63,187	65,771	73,277
District of Columbia	5,221	-	-	21,572	26,794	-
Maryland	31,056	11,838	26,375	370,944	413,838	26,375
New Jersey	54,073	105,198	290,401	^E 633,028	792,299	290,401
New York	9,009	5,187	228,003	^E 977,851	992,047	228,003
Pennsylvania	44,437	19,774	204,182	1,240,189	1,304,401	204,182
Subdistrict IC Total	370,133	299,321	515,267	4,731,652	5,401,105	515,267
Florida	74,037	148,977	376,345	1,177,788	1,400,803	376,345
Georgia	100,590	12,068	49,330	1,185,844	1,298,502	49,330
North Carolina	69,309	28,226	8,830	854,189	951,723	8,830
South Carolina	14,381	15,593	19,564	484,503	514,478	19,564
Virginia	93,815	27,331	61,198	832,903	954,050	61,198
West Virginia	18,000	67,125	-	^E 196,425	281,550	-
PAD District II Total	1,342,830	450,919	26,055	9,659,243	11,452,992	26,055
Illinois	146,356	43,711	2,106	936,299	1,126,366	2,106
Indiana	105,586	40,428	17,609	1,121,011	1,267,025	17,609
Iowa	52,827	6,107	-	457,122	516,056	-
Kansas	88,792	-	-	^E 364,088	452,880	-
Kentucky	97,458	109,544	-	683,925	890,926	-
Michigan	47,775	5,817	2,306	808,162	861,754	2,306
Minnesota	72,781	2,992	425	502,305	578,078	425
Missouri	26,641	178,455	278	814,212	1,019,309	278
Nebraska	197,184	73	-	316,626	513,883	-
North Dakota	45,708	-	-	145,436	191,144	-
Ohio	161,957	5,749	2,612	1,400,649	1,568,355	2,612
Oklahoma	169,752	166	-	562,915	732,833	-
South Dakota	1,859	-	-	140,377	142,236	-
Tennessee	87,696	55,768	179	776,452	919,916	179
Wisconsin	40,457	2,109	540	629,664	672,230	540
PAD District III Total	680,361	1,197,462	1,914,358	4,738,216	6,616,039	1,914,358
Alabama	49,779	69,204	86,673	656,302	775,284	86,673
Arkansas	54,161	3,047	-	532,548	589,756	-
Louisiana	25,523	778,231	869,435	525,902	1,329,656	869,435
Mississippi	28,913	40,566	55,824	431,389	500,868	55,824
New Mexico	26,294	-	-	341,429	367,723	-
Texas	495,691	306,415	902,426	2,250,646	3,052,752	902,426
PAD District IV Total	278,761	196	-	1,224,729	1,503,686	-
Colorado	48,369	-	-	291,105	339,474	-
Idaho	29,076	178	-	^E 202,725	231,980	-
Montana	69,896	-	-	^E 178,706	248,602	-
Utah	36,658	17	-	293,452	330,127	-
Wyoming	94,761	-	-	258,741	353,502	-
PAD District V Total	436,239	420,176	1,670,493	4,039,853	4,896,268	1,670,493
Alaska	4,925	140,831	96	^E 68,374	214,131	96
Arizona	3,636	27	-	^E 557,464	561,127	-
California	250,124	163,933	945,817	2,288,069	2,702,126	945,817
Hawaii	-	19,824	19,549	28,487	48,311	19,549
Nevada	8,760	-	-	221,981	230,741	-
Oregon	89,008	14,308	144,373	^E 408,624	511,940	144,373
Washington	79,785	81,253	560,658	466,854	627,892	560,658

^E Estimated data.

Dashes (-) = No data reported.

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

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

• 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, 1997
(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	398,244	34,377	432,621	42,164	1,817,122	459,426	2,276,548	-	4,065	7,054
PAD District I Total	30,360	27,143	57,503	34,641	499,309	101,407	600,716	-	3,898	2,563
Subdistrict IA Total	2,215	4,291	6,506	6,027	47,904	16,510	64,414	-	511	243
Connecticut	170	3,591	3,761	857	6,981	779	7,760	-	186	-
Maine	224	574	798	4,784	10,814	10,650	21,464	-	291	36
Massachusetts	1,681	45	1,726	387	21,753	1,729	23,482	-	34	24
New Hampshire	-	-	-	-	3,747	2,363	6,110	-	-	88
Rhode Island	21	72	93	-	2,896	470	3,366	-	-	2
Vermont	119	9	128	-	1,713	518	2,231	-	-	93
Subdistrict IB Total	9,743	13,921	23,663	14,141	155,978	9,489	165,467	-	-	1,434
Delaware	436	22	458	1,076	4,162	121	4,283	-	-	-
District of Columbia	60	75	135	-	609	-	609	-	-	-
Maryland	4,745	4,710	9,455	5,929	21,566	1,745	23,311	-	-	23
New Jersey	1,217	24	1,241	6,977	27,884	3,646	31,530	-	-	141
New York	1,172	472	1,644	-	47,879	103	47,982	-	-	381
Pennsylvania	2,114	8,618	10,732	159	53,877	3,875	57,752	-	-	889
Subdistrict IC Total	18,402	8,931	27,333	14,473	295,427	75,408	370,835	-	3,386	886
Florida	5,424	-	5,424	2,327	111,113	10,923	122,036	-	2,750	20
Georgia	2,340	-	2,340	12	53,777	26,185	79,962	-	-	226
North Carolina	1,225	257	1,482	3,522	51,513	7,807	59,320	-	637	464
South Carolina	2,115	889	3,004	4,973	24,268	17,946	42,214	-	-	34
Virginia	7,254	7,785	15,039	3,639	47,865	11,633	59,498	-	-	97
West Virginia	45	-	45	-	6,891	913	7,805	-	-	46
PAD District II Total	19,126	3,192	22,318	382	559,007	96,814	655,821	-	59	3,462
Illinois	1,220	28	1,248	3	55,623	4,030	59,653	-	-	654
Indiana	38	338	376	-	30,258	7,600	37,858	-	-	353
Iowa	2,293	-	2,293	-	44,014	9,825	53,838	-	-	23
Kansas	1,147	-	1,147	-	27,379	876	28,255	-	-	94
Kentucky	1,525	-	1,525	-	28,483	6,704	35,187	-	-	199
Michigan	373	-	373	-	54,295	16,374	70,670	-	25	329
Minnesota	378	-	378	-	36,797	13,005	49,802	-	-	46
Missouri	1,194	-	1,194	379	50,211	8,894	59,105	-	-	50
Nebraska	571	50	620	-	15,077	1,465	16,542	-	-	94
North Dakota	600	79	679	-	6,484	1,007	7,491	-	-	13
Ohio	222	-	222	-	70,262	6,432	76,694	-	-	1,218
Oklahoma	446	470	916	-	38,336	1,246	39,582	-	-	67
South Dakota	961	1,452	2,413	-	7,064	1,099	8,164	-	-	8
Tennessee	1,358	-	1,358	-	60,937	6,617	67,554	-	-	228
Wisconsin	6,801	775	7,577	-	33,788	11,639	45,427	-	34	87
PAD District III Total	167,779	1,773	169,552	700	346,255	133,565	479,820	-	44	606
Alabama	988	-	988	-	42,015	45,314	87,329	-	-	62
Arkansas	778	384	1,162	-	19,137	15,121	34,258	-	-	104
Louisiana	16,826	1,389	18,215	700	117,956	10,028	127,984	-	-	235
Mississippi	5,108	-	5,108	-	21,636	30,137	51,773	-	-	11
New Mexico	2,282	-	2,282	-	9,425	975	10,399	-	44	7
Texas	141,797	-	141,797	-	136,087	31,991	168,077	-	-	187
PAD District IV Total	1,712	1,229	2,941	-	111,160	27,593	138,753	-	61	68
Colorado	868	-	868	-	37,283	3,279	40,562	-	17	32
Idaho	381	-	381	-	14,576	13,412	27,988	-	4	-
Montana	194	-	194	-	15,799	4,836	20,635	-	-	-
Utah	269	1,200	1,469	-	27,497	3,081	30,578	-	23	16
Wyoming	-	29	29	-	16,005	2,984	18,989	-	16	20
PAD District V Total	179,268	1,039	180,307	6,442	301,391	100,049	401,440	-	4	354
Alaska	2,893	609	3,502	-	13,783	25,986	39,769	-	-	1
Arizona	535	-	535	-	32,049	2,631	34,679	-	-	2
California	24,048	-	24,048	3,538	159,208	20,086	179,294	-	-	150
Hawaii	9,211	-	9,211	2,291	14,625	731	15,357	-	-	-
Nevada	1,570	-	1,570	-	19,163	1,761	20,924	-	-	-
Oregon	625	23	648	-	15,693	23,000	38,692	-	-	117
Washington	140,387	407	140,795	612	46,870	25,854	72,724	-	4	83

Dashes (-) = No data reported.

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

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

• Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1997, (DOE/EIA-0340(97)/1).

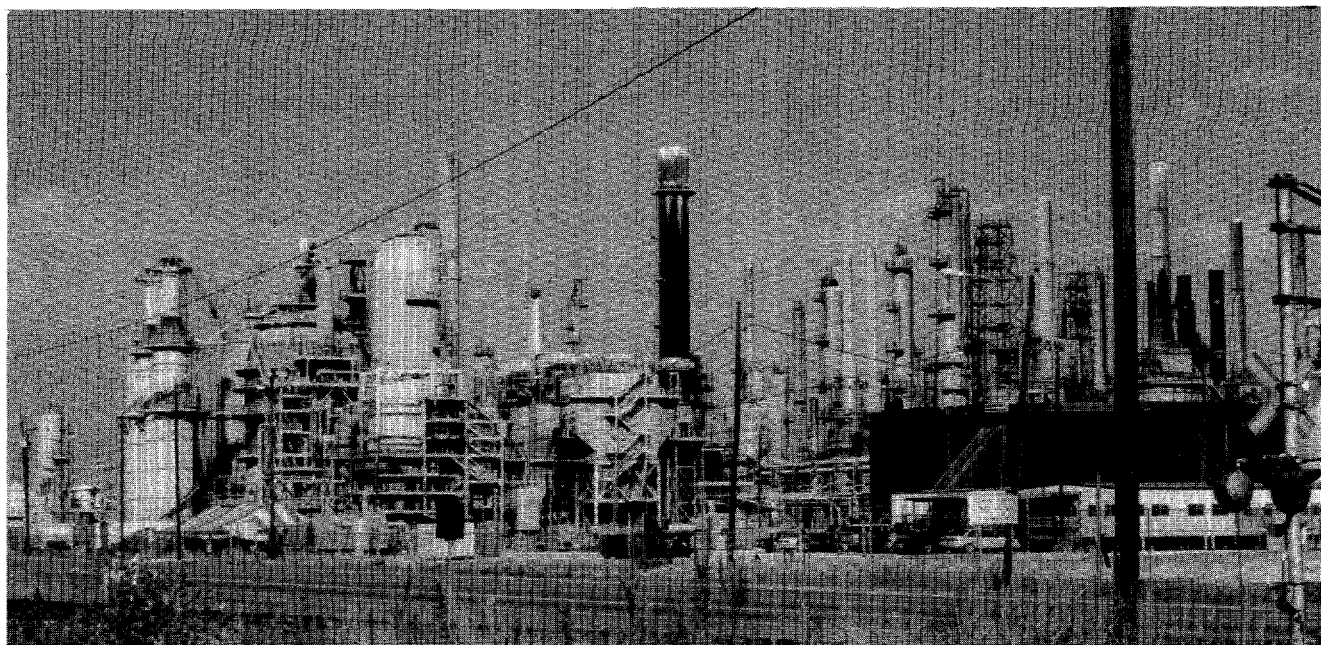
Adjusted Sales of Fuel Oil and Kerosene in 1997

The following tables contain estimates of distillate fuel oil that have been adjusted at the PAD district level to equal published EIA volume estimates of petroleum products supplied in the U.S. marketplace. The kerosene and residual fuel oil sales estimates have been adjusted at the national level. Historically, kerosene estimates have always been adjusted at the PAD district level.

The products supplied estimates can be found in the 1993 through 1997 issues of the *Petroleum Supply An-*

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

Total domestic adjusted sales of fuel oil and kerosene increased 0.3 percent from 65.7 billion gallons in 1996 to 65.9 billion gallons in 1997. While adjusted sales of distillate increased 1.8 percent in 1997, residual fuel oil dropped 6.8 percent. Kerosene adjusted sales increased by 6.4 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: 1993-1997
(Thousand Gallons)

End Use	Distillate Fuel Oil				
	1993	1994	1995	1996	1997
U.S. Total	46,621,806	48,477,156	49,157,598	51,730,518	52,665,438
Residential	6,577,146	6,335,853	6,370,381	6,707,714	6,487,768
Commercial	3,342,105	3,343,090	3,318,818	3,433,555	3,218,497
Industrial	1,965,557	2,091,611	2,027,409	2,107,190	2,167,169
Oil Company	763,068	703,946	556,126	625,608	632,595
Farm	3,238,675	3,198,640	3,230,765	3,334,420	3,304,531
Electric Utility	586,845	755,219	601,185	684,263	646,778
Railroad	2,906,998	3,063,441	3,191,023	3,266,861	3,067,400
Vessel Bunkering	2,043,745	2,026,899	1,978,105	2,177,608	2,107,561
On-Highway Diesel	22,758,842	24,442,609	25,576,433	26,958,668	28,614,022
Military	482,773	526,563	368,219	371,093	337,390
Off-Highway Diesel	1,953,640	1,988,481	1,939,133	2,063,538	2,081,728
All Other	2,411	804	-	-	-

Dashes (-) = No data reported.

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

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

Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 1993-1997.

• 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, 1993-1997, (DOE/EIA-0340(93)/1 - (97)/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: 1993-1997
(Thousand Gallons)

End Use	Residual Fuel Oil				
	1993	1994	1995	1996	1997
U.S. Total	16,559,004	15,648,654	13,058,262	13,041,042	12,213,390
Commercial	1,217,796	1,171,495	1,007,962	944,717	754,967
Industrial	2,823,049	2,579,494	2,160,606	2,127,457	1,815,165
Oil Company	316,372	267,921	231,022	170,471	153,424
Electric Utility	5,841,192	5,609,752	3,164,462	3,925,629	4,655,775
Vessel Bunkering	6,269,882	5,944,838	6,431,238	5,804,977	4,789,861
Military	86,109	68,368	55,614	57,249	40,311
All Other	4,604	6,745	7,359	10,542	3,886

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 1993-1997.

• 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, 1993-1997, (DOE/EIA-0340(93)/1 - (97)/1).

Table 15. Adjusted Sales of Kerosene by End Use in the United States: 1993-1997
(Thousand Gallons)

End Use	Kerosene				
	1993	1994	1995	1996	1997
U.S. Total	760,788	750,330	828,450	948,990	1,009,932
Residential	560,103	480,916	550,336	657,636	688,025
Commercial	103,996	144,142	163,716	155,792	182,559
Industrial	58,190	86,629	86,902	102,322	110,738
Farm	27,695	27,686	19,919	26,017	21,556
All Other	10,805	10,957	7,576	7,223	7,054

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

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

Sources: • Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1993-1997, (DOE/EIA-0340(93)/1 - (97)/1).

Table 16. Adjusted Sales of Distillate Fuel Oil by End Use, 1996 and 1997

(Thousand Gallons)

Destination	Residential		Commercial		Industrial	
	1996	1997	1996	1997	1996	1997
U.S. Total	6,707,714	6,487,768	3,433,555	3,218,497	2,107,190	2,167,169
PAD District I Total	5,610,264	5,430,114	2,383,023	2,149,556	746,115	725,286
Subdistrict IA Total	2,114,262	2,133,604	594,280	601,436	95,792	101,021
Connecticut	562,736	561,107	126,094	127,174	22,245	25,772
Maine	321,766	320,965	103,298	101,863	26,922	28,695
Massachusetts	782,640	794,329	240,265	246,015	24,058	21,784
New Hampshire	197,889	200,855	56,274	57,418	6,589	6,118
Rhode Island	148,306	156,304	34,445	32,155	9,291	11,356
Vermont	100,925	100,043	33,904	36,811	6,687	7,295
Subdistrict IB Total	2,997,204	2,863,086	1,331,590	1,121,148	232,274	206,444
Delaware	46,513	39,221	16,316	14,665	8,190	8,300
District of Columbia	12,879	11,184	40,964	21,920	448	284
Maryland	247,702	217,332	139,366	107,495	36,982	25,745
New Jersey	518,691	492,256	210,732	147,583	43,285	39,437
New York	1,288,927	1,272,482	661,993	621,215	48,266	42,399
Pennsylvania	882,491	830,611	262,220	208,269	95,102	90,280
Subdistrict IC Total	498,798	433,424	457,154	426,973	418,049	417,821
Florida	9,083	6,295	90,379	77,364	46,436	45,437
Georgia	6,430	3,423	49,268	37,643	60,485	41,972
North Carolina	181,453	148,458	120,367	123,977	87,182	81,572
South Carolina	30,344	23,172	41,076	45,460	27,157	20,971
Virginia	245,942	225,927	144,831	128,845	78,180	115,887
West Virginia	25,547	26,149	11,234	13,684	118,609	111,983
PAD District II Total	885,239	811,985	565,136	610,444	649,804	706,703
Illinois	31,780	31,498	77,447	98,086	52,819	84,135
Indiana	61,655	56,231	41,097	48,686	70,004	76,975
Iowa	32,976	32,232	15,175	14,242	20,597	16,503
Kansas	740	1,572	23,606	21,047	10,601	12,417
Kentucky	28,220	29,257	50,824	41,550	183,408	173,847
Michigan	164,389	162,886	75,236	85,252	43,278	44,609
Minnesota	147,025	130,432	43,179	38,852	38,907	42,829
Missouri	14,078	13,830	55,765	51,995	33,797	35,066
Nebraska	4,819	4,006	9,816	7,338	4,115	4,494
North Dakota	34,842	26,774	8,881	11,443	6,683	8,835
Ohio	160,908	147,915	56,879	62,374	73,064	79,096
Oklahoma	992	157	16,312	25,192	8,899	8,532
South Dakota	26,546	20,585	10,679	11,693	9,654	4,315
Tennessee	11,444	10,523	38,583	36,776	39,956	48,822
Wisconsin	164,824	144,087	41,657	55,918	54,023	66,226
PAD District III Total	556	1,319	156,172	120,683	246,818	217,037
Alabama	371	1,199	20,509	16,097	52,872	40,526
Arkansas	33	21	10,724	8,100	9,593	15,955
Louisiana	24	3	4,958	9,322	20,812	13,375
Mississippi	23	11	14,654	9,884	22,060	27,449
New Mexico	103	80	6,483	5,059	25,601	29,094
Texas	3	5	98,844	72,220	115,881	90,639
PAD District IV Total	48,833	72,768	116,291	113,340	175,221	200,600
Colorado	2,528	2,878	41,460	49,802	19,100	24,853
Idaho	22,112	24,258	25,733	19,600	29,990	32,501
Montana	18,422	38,233	12,947	9,031	24,327	27,654
Utah	4,217	4,898	21,193	22,654	26,713	29,082
Wyoming	1,554	2,502	14,958	12,254	75,092	86,510
PAD District V Total	162,821	171,582	212,933	224,474	289,232	317,542
Alaska	55,141	61,023	33,786	31,258	40,800	25,282
Arizona	276	239	16,925	21,607	72,582	89,119
California	4,227	5,245	73,223	82,090	37,738	46,881
Hawaii	7	15	6,400	12,943	2,523	2,053
Nevada	5,674	8,586	28,243	9,301	96,650	112,627
Oregon	34,491	35,371	26,061	31,394	23,376	29,395
Washington	63,006	61,102	28,295	35,881	15,562	12,184

See footnotes at end of table.

Table 16. Adjusted Sales of Distillate Fuel Oil by End Use, 1996 and 1997 (Continued)

(Thousand Gallons)

Destination	Oil Company		Farm		Electric Utility	
	1996	1997	1996	1997	1996	1997
U.S. Total	625,608	632,595	3,334,420	3,304,531	684,263	646,778
PAD District I Total	9,739	8,024	401,724	388,999	283,822	243,039
Subdistrict IA Total	547	378	16,265	17,637	20,821	15,536
Connecticut	230	119	2,608	3,080	1,730	2,470
Maine	—	—	3,723	4,205	879	1,582
Massachusetts	225	255	4,068	3,531	12,584	7,639
New Hampshire	—	—	908	1,273	1,673	2,736
Rhode Island	90	1	98	111	3,891	906
Vermont	2	3	4,861	5,438	64	204
Subdistrict IB Total	4,358	3,684	106,055	104,897	110,298	89,626
Delaware	754	1,662	5,537	5,361	8,337	3,158
District of Columbia	—	—	—	—	17,252	13,001
Maryland	131	44	26,173	25,122	24,212	27,289
New Jersey	1,492	461	7,159	6,209	5,173	7,290
New York	997	738	33,183	35,687	14,873	9,464
Pennsylvania	983	778	34,003	32,519	40,451	29,424
Subdistrict IC Total	4,834	3,962	279,404	266,465	152,703	137,877
Florida	549	568	74,869	81,189	70,455	65,736
Georgia	1,256	763	100,255	88,765	27,265	11,884
North Carolina	113	191	33,755	33,284	23,354	16,213
South Carolina	408	1	23,940	20,899	8,700	22,165
Virginia	1,202	2,131	42,435	39,248	10,225	9,082
West Virginia	1,307	307	4,150	3,080	12,703	12,796
PAD District II Total	48,831	50,765	1,662,736	1,774,798	164,750	177,559
Illinois	1,337	1,600	203,318	214,122	30,469	34,226
Indiana	2,787	4,495	92,917	103,494	18,371	27,206
Iowa	10	—	204,469	216,459	2,452	3,419
Kansas	4,868	5,975	162,074	187,045	6,270	5,296
Kentucky	300	618	31,907	42,323	9,057	9,159
Michigan	1,977	2,114	63,146	58,347	25,525	23,834
Minnesota	—	26	178,699	191,087	9,850	6,563
Missouri	39	84	58,217	62,349	5,307	6,847
Nebraska	616	1,059	173,762	186,429	1,509	2,444
North Dakota	8,281	3,692	103,178	96,028	5,506	5,533
Ohio	1,136	1,487	92,322	95,490	22,460	27,073
Oklahoma	27,304	29,362	75,554	75,658	404	869
South Dakota	77	190	79,179	78,569	1,241	5
Tennessee	98	64	57,476	74,792	17,990	14,062
Wisconsin	2	—	86,518	92,604	8,338	11,024
PAD District III Total	484,386	459,986	714,583	478,181	65,232	48,406
Alabama	8,403	6,237	32,062	25,151	12,792	6,285
Arkansas	1,419	1,288	91,367	78,928	5,629	5,886
Louisiana	287,714	237,031	52,736	37,911	18,728	14,779
Mississippi	1,128	1,072	80,786	74,937	4,436	2,557
New Mexico	16,855	16,389	15,008	9,680	1,560	1,310
Texas	168,867	197,969	442,623	251,575	22,088	17,588
PAD District IV Total	33,844	44,047	266,930	272,160	6,309	7,084
Colorado	10,083	7,708	88,606	86,138	892	451
Idaho	2	1	60,380	62,850	347	34
Montana	1,846	2,237	84,651	78,837	65	15
Utah	5,559	6,765	19,145	25,600	2,235	2,450
Wyoming	16,354	27,336	14,149	18,735	2,769	4,134
PAD District V Total	48,807	69,773	288,447	390,392	164,151	170,691
Alaska	44,091	62,793	2	2	39,170	56,410
Arizona	66	71	18,021	24,093	2,597	3,309
California	3,352	4,036	190,386	276,302	4,272	6,602
Hawaii	437	1,442	5,569	5,409	113,229	102,024
Nevada	332	383	4,260	5,049	1,864	1,738
Oregon	34	94	26,112	34,006	858	448
Washington	495	954	44,097	45,531	2,162	159

See footnotes at end of table.

Table 16. Adjusted Sales of Distillate Fuel Oil by End Use, 1996 and 1997 (Continued)

(Thousand Gallons)

Destination	Railroad		Vessel Bunkering		On-Highway	
	1996	1997	1996	1997	1996	1997
U.S. Total	3,266,861	3,067,400	2,177,608	2,107,561	26,958,668	28,614,022
PAD District I Total	568,371	537,406	513,469	502,983	8,372,128	8,951,981
Subdistrict IA Total	24,862	25,145	71,917	61,326	858,402	913,558
Connecticut	6,215	8,320	2,472	3,254	^E 208,249	216,062
Maine	5,738	6,197	12,479	12,513	135,339	138,527
Massachusetts	12,132	9,702	46,282	33,437	313,984	344,131
New Hampshire	149	127	737	385	60,949	^E 64,481
Rhode Island	96	126	9,481	11,272	44,378	72,916
Vermont	532	672	466	465	95,503	77,441
Subdistrict IB Total	143,614	143,640	138,053	143,559	3,063,474	3,308,771
Delaware	415	432	6,381	2,142	59,290	63,187
District of Columbia	6,161	5,200	2	-	20,949	21,572
Maryland	28,371	30,929	20,245	11,789	355,412	370,944
New Jersey	63,791	53,852	81,076	104,768	532,936	^E 633,028
New York	7,041	8,972	13,882	5,166	924,782	^E 977,851
Pennsylvania	37,836	44,256	16,467	19,694	1,170,105	1,240,189
Subdistrict IC Total	399,895	368,620	303,498	298,097	4,450,252	4,731,652
Florida	103,973	73,735	166,043	148,368	^E 962,504	1,177,788
Georgia	76,841	100,179	10,399	12,019	1,345,755	1,185,844
North Carolina	72,825	69,026	19,332	28,110	794,837	854,189
South Carolina	11,176	14,322	10,878	15,530	458,312	484,503
Virginia	128,748	93,432	26,093	27,220	757,666	832,903
West Virginia	6,332	17,926	70,752	66,851	131,178	^E 196,425
PAD District II Total	1,412,083	1,372,891	477,296	461,014	9,125,173	9,659,243
Illinois	200,798	149,632	46,912	44,690	884,696	936,299
Indiana	127,691	107,950	16,934	41,333	1,036,200	1,121,011
Iowa	66,190	54,010	7,011	6,244	458,660	457,122
Kansas	121,763	90,780	-	-	352,872	^E 364,088
Kentucky	104,310	99,640	146,330	111,996	587,549	683,925
Michigan	43,626	48,844	4,753	5,947	772,262	808,162
Minnesota	71,590	74,410	4,835	3,059	482,131	502,305
Missouri	22,782	27,238	163,421	182,450	767,383	814,212
Nebraska	165,708	201,598	49	75	336,764	316,626
North Dakota	46,467	46,732	-	-	135,043	145,436
Ohio	135,184	165,583	8,447	5,878	1,275,402	1,400,649
Oklahoma	152,129	173,552	147	170	541,337	562,915
South Dakota	1,957	1,901	-	-	141,728	140,377
Tennessee	96,740	89,659	76,352	57,016	754,982	776,452
Wisconsin	55,149	41,363	2,103	2,156	598,164	629,664
PAD District III Total	554,336	468,499	946,627	824,577	4,522,044	4,738,216
Alabama	44,929	34,278	55,758	47,654	646,567	656,302
Arkansas	57,333	37,296	2,830	2,098	495,380	532,548
Louisiana	23,771	17,575	608,963	535,892	508,414	525,902
Mississippi	21,128	19,909	23,075	27,934	400,100	431,389
New Mexico	19,045	18,106	-	-	314,590	341,429
Texas	388,130	341,335	256,001	210,998	2,156,993	2,250,646
PAD District IV Total	450,930	357,683	339	251	1,094,512	1,224,729
Colorado	130,661	62,064	-	-	273,207	291,105
Idaho	37,901	37,309	314	229	187,828	^E 202,725
Montana	93,160	89,685	5	-	140,625	^E 178,706
Utah	53,266	47,036	20	22	255,192	293,452
Wyoming	135,942	121,589	-	-	237,660	258,741
PAD District V Total	281,141	330,922	239,877	318,736	3,844,811	4,039,853
Alaska	2,959	3,736	94,617	106,832	34,918	^E 68,374
Arizona	2,465	2,759	11	20	543,643	^E 557,464
California	166,165	189,739	65,966	124,356	2,115,704	2,288,069
Hawaii	-	-	15,613	15,038	40,447	28,487
Nevada	5,452	6,645	-	-	^E 244,609	221,981
Oregon	54,651	67,519	15,551	10,854	386,239	^E 408,624
Washington	49,448	60,523	48,119	61,637	479,251	466,854

See footnotes at end of table.

Table 16. Adjusted Sales of Distillate Fuel Oil by End Use, 1996 and 1997 (Continued)

(Thousand Gallons)

Destination	Military		Off-Highway		All Other		Total	
	1996	1997	1996	1997	1996	1997	1996	1997
U.S. Total	371,093	337,390	2,063,538	2,081,728	-	-	51,730,518	52,665,438
PAD District I Total	80,141	57,268	612,822	598,261	-	-	19,581,618	19,592,916
Subdistrict IA Total	11,062	6,480	74,001	64,151	-	-	3,882,213	3,940,272
Connecticut	3,869	3,745	9,472	7,729	-	-	945,920	958,833
Maine	3,530	794	26,279	21,376	-	-	639,953	636,717
Massachusetts	1,431	1,719	23,609	23,386	-	-	1,461,278	1,485,929
New Hampshire	52	-	9,266	6,085	-	-	334,487	339,478
Rhode Island	1,895	93	3,032	3,352	-	-	255,002	288,593
Vermont	286	128	2,342	2,222	-	-	245,572	230,723
Subdistrict IB Total	37,195	23,567	169,667	164,791	-	-	8,333,782	8,171,212
Delaware	1,328	456	6,979	4,265	-	-	160,039	142,849
District of Columbia	2,008	134	320	607	-	-	100,984	73,903
Maryland	18,014	9,416	24,404	23,216	-	-	921,013	849,321
New Jersey	1,934	1,236	30,187	31,401	-	-	1,496,457	1,517,521
New York	2,354	1,637	47,685	47,786	-	-	3,043,983	3,023,396
Pennsylvania	11,556	10,688	60,093	57,516	-	-	2,611,306	2,564,222
Subdistrict IC Total	31,883	27,221	369,153	369,320	-	-	7,365,623	7,481,432
Florida	7,268	5,402	118,931	121,537	-	-	1,650,490	1,803,418
Georgia	2,978	2,331	71,741	79,636	-	-	1,752,673	1,564,457
North Carolina	3,869	1,476	65,288	59,077	-	-	1,402,377	1,415,573
South Carolina	1,943	2,991	39,049	42,041	-	-	652,981	692,056
Virginia	15,260	14,978	64,299	59,255	-	-	1,514,881	1,548,908
West Virginia	564	44	9,845	7,773	-	-	392,221	457,020
PAD District II Total	21,826	22,817	636,243	670,502	-	-	15,649,116	16,318,722
Illinois	1,400	1,276	70,169	60,989	-	-	1,601,145	1,656,552
Indiana	1,856	384	33,283	38,705	-	-	1,502,795	1,626,470
Iowa	223	2,344	41,085	55,044	-	-	848,848	857,618
Kansas	924	1,172	28,009	28,888	-	-	711,727	718,280
Kentucky	1,380	1,560	44,123	35,974	-	-	1,187,407	1,229,849
Michigan	1,595	381	57,295	72,252	-	-	1,253,082	1,312,628
Minnesota	670	386	59,743	50,917	-	-	1,036,628	1,040,868
Missouri	2,747	1,220	43,460	60,428	-	-	1,166,996	1,255,718
Nebraska	465	634	17,652	16,912	-	-	715,274	741,617
North Dakota	1,837	694	5,911	7,659	-	-	356,628	352,826
Ohio	755	227	72,424	78,411	-	-	1,898,980	2,064,183
Oklahoma	1,758	936	32,587	40,468	-	-	857,424	917,811
South Dakota	1,677	2,467	8,416	8,346	-	-	281,154	268,448
Tennessee	1,375	1,388	61,492	69,066	-	-	1,156,489	1,178,622
Wisconsin	3,165	7,746	60,595	46,444	-	-	1,074,538	1,097,231
PAD District III Total	158,654	116,754	401,197	330,406	-	-	8,250,606	7,804,062
Alabama	2,622	680	94,290	60,135	-	-	971,175	894,543
Arkansas	1,425	800	22,780	23,590	-	-	698,514	706,509
Louisiana	34,426	12,543	100,748	88,130	-	-	1,661,294	1,492,464
Mississippi	3,796	3,517	38,337	35,651	-	-	609,523	634,310
New Mexico	1,845	1,571	17,181	7,161	-	-	418,272	429,880
Texas	114,539	97,642	127,861	115,739	-	-	3,891,829	3,646,357
PAD District IV Total	5,788	3,774	171,440	178,036	-	-	2,370,438	2,474,472
Colorado	1,113	1,114	55,310	52,046	-	-	622,960	578,159
Idaho	673	488	32,424	35,912	-	-	397,704	415,908
Montana	269	249	34,602	26,478	-	-	410,918	451,125
Utah	3,706	1,885	25,595	39,235	-	-	416,842	473,079
Wyoming	26	37	23,509	24,365	-	-	522,014	556,202
PAD District V Total	104,684	136,777	241,836	304,523	-	-	5,878,740	6,475,266
Alaska	3,612	2,656	21,892	30,168	-	-	370,986	448,535
Arizona	709	406	25,661	26,307	-	-	682,956	725,394
California	62,147	18,242	107,976	136,008	-	-	2,831,157	3,177,571
Hawaii	12,912	6,987	5,067	11,649	-	-	202,203	186,047
Nevada	967	1,191	12,016	15,873	-	-	400,068	383,375
Oregon	1,548	491	23,523	29,351	-	-	592,443	647,549
Washington	22,790	106,804	45,702	55,167	-	-	798,927	906,796

E Estimated data.

Dashes (-) = No data reported.

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

Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 1996 and 1997.

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

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

Table 17. Adjusted Sales of Residual Fuel Oil by End Use, 1996 and 1997

(Thousand Gallons)

Destination	Commercial		Industrial		Oil Company		Electric Utility	
	1996	1997	1996	1997	1996	1997	1996	1997
U.S. Total	944,717	754,967	2,127,457	1,815,165	170,471	153,424	3,925,629	4,655,775
PAD District I Total	909,145	724,631	1,624,561	1,398,504	103,635	65,532	3,335,296	3,897,100
Subdistrict IA Total	198,265	185,191	512,157	431,434	837	222	858,167	1,432,678
Connecticut	19,679	13,705	41,475	16,105	247	222	382,237	553,297
Maine	21,986	25,044	333,976	284,837	-	-	55,163	105,069
Massachusetts	105,221	95,543	72,583	73,474	590	-	371,371	744,052
New Hampshire	19,356	20,221	41,421	35,381	-	-	49,397	30,260
Rhode Island	28,887	25,940	13,622	12,574	-	-	-	-
Vermont	3,137	4,738	9,081	9,063	-	-	-	-
Subdistrict IB Total	684,050	520,804	340,468	259,917	102,406	64,427	1,063,928	898,515
Delaware	9,581	8,283	39,767	33,625	23,437	18,237	62,664	69,093
District of Columbia	4,148	1,471	10	-	-	-	-	-
Maryland	4,656	2,127	58,270	35,152	665	634	69,658	93,615
New Jersey	55,465	33,865	69,503	55,412	2,383	2,437	131,149	18,331
New York	553,766	431,148	105,418	82,958	909	880	655,673	651,476
Pennsylvania	56,434	43,910	67,500	52,769	75,012	42,240	144,785	66,000
Subdistrict IC Total	26,829	18,637	771,936	707,153	391	882	1,413,201	1,565,906
Florida	4,275	5,302	161,507	143,797	79	345	1,370,198	1,517,580
Georgia	457	254	149,144	130,498	-	-	3,751	2,143
North Carolina	9,510	7,207	271,839	236,356	-	-	-	-
South Carolina	1,621	430	97,068	84,108	147	135	-	1,143
Virginia	10,966	5,443	77,317	102,530	165	402	39,253	45,040
West Virginia	-	-	15,061	9,864	-	-	-	-
PAD District II Total	22,520	25,234	260,044	208,599	29,256	50,624	88,480	83,114
Illinois	8,208	5,517	21,581	27,604	4,051	1,283	41,217	20,256
Indiana	587	376	44,230	24,146	-	21,727	-	-
Iowa	35	-	4,036	3,050	-	-	-	-
Kansas	77	-	5,740	7,148	-	-	-	14,871
Kentucky	7	-	6,767	3,966	3,748	3,078	-	-
Michigan	198	2,365	15,296	13,360	2,658	4,306	36,294	36,565
Minnesota	5,988	6,809	18,722	15,747	9,122	6,415	3,117	3,790
Missouri	244	1,420	13,359	7,661	-	-	7,299	7,483
Nebraska	-	404	7,244	4,289	-	-	-	-
North Dakota	252	382	5,604	3,481	-	4,095	5	66
Ohio	74	86	64,457	46,490	4,812	4,082	549	83
Oklahoma	-	-	11,194	11,055	-	-	-	-
South Dakota	-	358	1,731	2,353	-	-	-	-
Tennessee	1,199	1,885	7,704	4,551	115	60	-	-
Wisconsin	5,651	5,632	32,380	33,696	4,750	5,576	-	-
PAD District III Total	60	-	171,588	156,545	-	5	72,869	226,311
Alabama	25	-	30,520	25,589	-	-	-	-
Arkansas	9	-	5,005	890	-	5	4,422	2,297
Louisiana	26	-	32,246	43,233	-	-	5,175	33,564
Mississippi	-	-	4,865	1,313	-	-	63,233	188,578
New Mexico	-	-	8,389	6,695	-	-	-	-
Texas	-	-	90,565	78,825	-	-	39	1,872
PAD District IV Total	881	550	3,725	3,190	7,624	9,901	-	-
Colorado	-	-	171	125	-	-	-	-
Idaho	182	35	98	54	-	-	-	-
Montana	108	48	101	-	7,624	6,866	-	-
Utah	585	461	3,143	2,854	-	3,035	-	-
Wyoming	6	7	213	157	-	-	-	-
PAD District V Total	12,112	4,552	67,539	48,328	29,956	27,362	428,983	449,250
Alaska	-	-	16,756	5,915	-	-	-	-
Arizona	208	-	3,443	601	-	-	-	-
California	529	73	11,687	3,452	1,453	891	-	-
Hawaii	545	468	11,056	10,503	27,752	25,536	428,912	449,197
Nevada	-	30	5,465	8,746	116	43	-	-
Oregon	3,575	2,063	5,784	7,083	-	-	71	53
Washington	7,255	1,918	13,347	12,029	635	891	-	-

See footnotes at end of table.

Table 17. Adjusted Sales of Residual Fuel Oil by End Use, 1996 and 1997 (Continued)

(Thousand Gallons)

Destination	Vessel Bunkering		Military		All Other		Total	
	1996	1997	1996	1997	1996	1997	1996	1997
U.S. Total	5,804,977	4,789,861	57,249	40,311	10,542	3,886	13,041,042	12,213,390
PAD District I Total	1,360,439	1,337,659	40,120	33,118	7,792	3,726	7,380,987	7,460,270
Subdistrict IA Total	86,070	58,939	11,212	5,762	354	489	1,667,063	2,114,715
Connecticut	177	228	1,376	819	-	178	445,191	584,554
Maine	2,055	10	6,676	4,573	354	278	420,210	419,812
Massachusetts	83,533	58,519	3,160	370	-	33	636,458	971,990
New Hampshire	212	124	-	-	-	-	110,385	85,986
Rhode Island	92	58	-	-	-	-	42,601	38,572
Vermont	-	-	-	-	-	-	12,218	13,801
Subdistrict IB Total	788,155	786,100	14,018	13,520	-	-	2,993,025	2,543,282
Delaware	85,645	70,056	806	1,029	-	-	221,901	200,322
District of Columbia	-	-	-	-	-	-	4,158	1,471
Maryland	25,976	25,216	6,731	5,669	-	-	165,955	162,412
New Jersey	255,860	277,638	4,289	6,670	-	-	518,649	394,353
New York	277,974	217,982	890	-	-	-	1,594,629	1,384,444
Pennsylvania	142,699	195,208	1,302	152	-	-	487,732	400,280
Subdistrict IC Total	486,214	492,620	14,890	13,836	7,438	3,237	2,720,900	2,802,272
Florida	350,235	359,805	1,581	2,224	7,385	2,629	1,895,260	2,031,682
Georgia	53,561	47,162	-	11	-	-	206,913	180,069
North Carolina	7,572	8,442	6,635	3,368	53	609	295,610	255,981
South Carolina	25,732	18,704	2,920	4,755	-	-	127,487	109,275
Virginia	48,940	58,508	3,754	3,479	-	-	180,395	215,402
West Virginia	174	-	-	-	-	-	15,235	9,864
PAD District II Total	24,428	24,910	657	365	-	56	425,385	392,901
Illinois	1,286	2,013	21	3	-	-	76,363	56,676
Indiana	12,674	16,835	-	-	-	-	57,491	63,084
Iowa	-	-	-	-	-	-	4,070	3,050
Kansas	-	-	-	-	-	-	5,817	22,019
Kentucky	-	-	-	-	-	-	10,522	7,045
Michigan	5,196	2,205	122	-	-	24	59,763	58,825
Minnesota	-	406	-	-	-	-	36,948	33,168
Missouri	247	266	514	362	-	-	21,663	17,192
Nebraska	-	-	-	-	-	-	7,244	4,693
North Dakota	-	-	-	-	-	-	5,861	8,025
Ohio	3,570	2,497	-	-	-	-	73,462	53,238
Oklahoma	-	-	-	-	-	-	11,194	11,055
South Dakota	-	-	-	-	-	-	1,731	2,711
Tennessee	90	171	-	-	-	-	9,109	6,668
Wisconsin	1,365	516	-	-	-	32	44,146	45,453
PAD District III Total	2,050,735	1,830,219	4,767	669	31	42	2,300,050	2,213,792
Alabama	105,997	82,863	-	-	-	-	136,541	108,452
Arkansas	-	-	-	-	-	-	9,436	3,192
Louisiana	1,101,644	831,222	1,881	669	-	-	1,140,972	908,688
Mississippi	72,515	53,371	-	-	-	-	140,613	243,262
New Mexico	-	-	-	-	31	42	8,420	6,737
Texas	770,579	862,763	2,886	-	-	-	864,069	943,460
PAD District IV Total	-	-	8	-	71	59	12,309	13,700
Colorado	-	-	8	-	4	17	182	142
Idaho	-	-	-	-	5	4	285	93
Montana	-	-	-	-	-	-	7,833	6,913
Utah	-	-	-	-	24	22	3,752	6,373
Wyoming	-	-	-	-	38	15	257	179
PAD District V Total	2,369,375	1,597,073	11,697	6,159	2,649	3	2,922,311	2,132,728
Alaska	152	92	-	-	-	-	16,908	6,007
Arizona	-	-	-	-	-	-	3,651	601
California	1,680,188	904,248	7,509	3,383	28	-	1,701,395	912,047
Hawaii	26,931	18,690	3,460	2,190	2,621	-	501,276	506,585
Nevada	-	-	-	-	-	-	5,582	8,818
Oregon	131,310	138,027	-	-	-	-	140,740	147,226
Washington	530,794	536,017	729	585	-	3	552,760	551,444

Dashes (-) = No data reported.

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

Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 1996 and 1997.

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

• Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1996 and 1997, (DOE/EIA-0340(96)/1 - (97)/1).

Table 18. Adjusted Sales of Kerosene by End Use, 1996 and 1997

(Thousand Gallons)

Destination	Residential		Commercial		Industrial	
	1996	1997	1996	1997	1996	1997
U.S. Total	657,636	688,025	155,792	182,559	102,322	110,738
PAD District I Total	530,407	555,496	116,949	146,401	65,977	66,284
Subdistrict IA Total	95,280	100,429	13,593	18,515	2,962	5,190
Connecticut	5,217	6,020	3,012	4,357	1,062	1,608
Maine	57,548	55,003	6,222	6,581	453	1,388
Massachusetts	6,219	7,965	1,965	1,953	474	710
New Hampshire	16,486	19,986	1,746	2,437	435	762
Rhode Island	1,268	1,441	82	2,322	119	132
Vermont	8,542	10,015	566	865	420	591
Subdistrict IB Total	206,836	222,668	75,937	97,417	47,702	48,276
Delaware	7,574	5,087	260	656	2,017	246
District of Columbia	259	247	4,251	8,495	-	18
Maryland	24,925	25,085	6,324	9,531	1,305	1,121
New Jersey	11,912	12,283	10,216	31,496	13,030	27,498
New York	60,898	73,256	31,554	33,660	27,225	14,508
Pennsylvania	101,268	106,710	23,333	13,578	4,125	4,884
Subdistrict IC Total	228,291	232,399	27,418	30,469	15,312	12,818
Florida	11,067	8,485	4,445	2,257	1,230	2,085
Georgia	6,047	5,685	1,311	1,169	1,379	762
North Carolina	106,932	109,345	7,496	8,611	5,399	4,154
South Carolina	23,570	25,640	977	677	3,417	2,629
Virginia	64,847	66,479	11,651	15,615	1,485	802
West Virginia	15,829	16,765	1,538	2,140	2,401	2,386
PAD District II Total	107,822	108,138	30,506	29,328	19,453	19,238
Illinois	4,020	4,576	2,826	4,531	4,917	3,831
Indiana	12,096	12,707	2,887	3,639	1,903	1,257
Iowa	1,247	1,185	184	343	118	208
Kansas	808	486	208	1,169	115	175
Kentucky	18,410	20,393	4,649	4,751	3,092	3,973
Michigan	9,646	10,683	6,278	2,331	937	1,014
Minnesota	2,558	2,168	1,123	1,072	97	64
Missouri	2,368	1,879	1,138	862	1,034	341
Nebraska	159	294	167	109	44	20
North Dakota	224	224	74	22	3	6
Ohio	34,377	32,503	6,507	5,318	5,204	6,351
Oklahoma	843	585	210	684	181	298
South Dakota	216	245	25	24	8	10
Tennessee	19,139	18,357	3,722	4,159	1,357	1,317
Wisconsin	1,711	1,852	510	314	444	373
PAD District III Total	6,706	10,068	2,768	2,949	10,679	16,264
Alabama	2,675	2,407	392	374	1,988	2,474
Arkansas	493	789	222	220	299	166
Louisiana	707	3,865	313	110	971	902
Mississippi	941	901	233	533	796	1,209
New Mexico	274	224	31	120	331	202
Texas	1,616	1,881	1,577	1,593	6,293	11,311
PAD District IV Total	1,626	1,310	585	462	1,158	1,249
Colorado	868	799	245	205	62	66
Idaho	526	158	153	44	7	169
Montana	28	73	20	10	3	3
Utah	176	217	119	149	73	96
Wyoming	29	63	49	54	1,013	915
PAD District V Total	11,075	13,013	4,984	3,419	5,055	7,703
Alaska	12	6	6	14	4	-
Arizona	118	96	102	160	47	77
California	4,343	5,657	2,889	1,737	4,404	7,261
Hawaii	1	1	2	7	15	13
Nevada	263	229	64	32	55	60
Oregon	1,700	1,438	1,580	927	205	74
Washington	4,640	5,587	342	542	326	218

See footnotes at end of table.

Table 18. Adjusted Sales of Kerosene by End Use, 1996 and 1997 (Continued)

(Thousand Gallons)

Destination	Farm		All Other		Total	
	1996	1997	1996	1997	1996	1997
U.S. Total	26,017	21,556	7,223	7,054	948,990	1,009,932
PAD District I Total	9,408	7,880	3,008	2,563	725,749	778,624
Subdistrict IA Total	974	908	236	243	113,046	125,286
Connecticut	9	16	-	-	9,300	12,000
Maine	239	228	40	36	64,502	63,237
Massachusetts	106	139	26	24	8,788	10,791
New Hampshire	186	239	81	88	18,934	23,513
Rhode Island	-	-	1	2	1,470	3,897
Vermont	434	285	88	93	10,050	11,848
Subdistrict IB Total	2,702	1,430	2,244	1,434	335,421	371,224
Delaware	35	22	1	-	9,886	6,012
District of Columbia	-	-	-	-	4,510	8,761
Maryland	875	574	265	23	33,693	36,335
New Jersey	38	17	140	141	35,337	71,435
New York	1,099	267	337	381	121,113	122,072
Pennsylvania	655	549	1,501	889	130,882	126,610
Subdistrict IC Total	5,732	5,541	528	886	277,282	282,114
Florida	140	89	8	20	16,891	12,936
Georgia	2	17	159	226	8,898	7,859
North Carolina	1,433	2,081	105	464	121,364	124,655
South Carolina	279	188	11	34	28,254	29,168
Virginia	3,239	2,938	59	97	81,282	85,930
West Virginia	639	229	186	46	20,593	21,566
PAD District II Total	14,878	11,647	2,916	3,462	175,575	171,813
Illinois	4,303	1,805	666	654	16,733	15,397
Indiana	1,331	1,337	296	353	18,513	19,294
Iowa	691	901	23	23	2,262	2,660
Kansas	397	512	21	94	1,549	2,436
Kentucky	1,729	1,550	273	199	28,152	30,865
Michigan	382	515	429	329	17,672	14,873
Minnesota	1,190	940	191	46	5,158	4,289
Missouri	302	114	49	50	4,892	3,245
Nebraska	315	464	125	94	810	981
North Dakota	7	19	15	13	322	284
Ohio	3,488	2,666	592	1,218	50,167	48,057
Oklahoma	62	265	55	67	1,351	1,899
South Dakota	99	81	15	8	364	368
Tennessee	264	309	104	228	24,586	24,369
Wisconsin	318	169	62	87	3,046	2,794
PAD District III Total	516	620	517	606	21,185	30,506
Alabama	8	12	19	62	5,082	5,329
Arkansas	52	147	34	104	1,099	1,425
Louisiana	69	12	214	235	2,274	5,123
Mississippi	84	62	9	11	2,064	2,717
New Mexico	13	51	59	7	709	604
Texas	290	336	182	187	9,958	15,308
PAD District IV Total	186	541	126	68	3,681	3,630
Colorado	120	125	71	32	1,366	1,227
Idaho	35	381	5	-	726	752
Montana	3	2	1	-	54	89
Utah	20	28	7	16	394	506
Wyoming	9	5	41	20	1,141	1,057
PAD District V Total	1,029	869	657	354	22,801	25,358
Alaska	-	-	1	1	23	22
Arizona	5	12	17	2	288	346
California	359	224	365	150	12,360	15,030
Hawaii	3	-	-	-	22	21
Nevada	15	10	3	-	399	330
Oregon	71	53	182	117	3,737	2,610
Washington	576	569	89	83	5,972	6,999

Dashes (-) = No data reported.

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

Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 1996 and 1997.

• Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1996 and 1997, (DOE/EIA-0340(96)/1 - (97)/1).

Table 19. Adjusted Sales for Residential Use: Distillate Fuel Oil and Kerosene, 1997
(Thousand Gallons)

Destination	Distillate Fuel Oil			Kerosene
	No. 1	No. 2	Total	
U.S. Total	179,736	6,308,032	6,487,768	688,025
PAD District I Total	18,998	5,411,116	5,430,114	555,496
Subdistrict IA Total	14,027	2,119,577	2,133,604	100,429
Connecticut	265	560,842	561,107	6,020
Maine	3,013	317,953	320,966	55,003
Massachusetts	8,838	785,491	794,329	7,965
New Hampshire	887	199,968	200,855	19,986
Rhode Island	1,024	155,280	156,304	1,441
Vermont	-	100,043	100,043	10,015
Subdistrict IB Total	3,054	2,860,032	2,863,086	222,668
Delaware	-	39,221	39,221	5,087
District of Columbia	-	11,184	11,184	247
Maryland	1,164	216,168	217,332	25,085
New Jersey	672	491,585	492,257	12,283
New York	-	1,272,482	1,272,482	73,256
Pennsylvania	1,218	829,393	830,611	106,710
Subdistrict IC Total	1,918	431,506	433,424	232,399
Florida	31	6,264	6,295	8,485
Georgia	49	3,374	3,423	5,685
North Carolina	98	148,360	148,458	109,345
South Carolina	609	22,563	23,172	25,640
Virginia	811	225,116	225,927	66,479
West Virginia	320	25,829	26,149	16,765
PAD District II Total	95,877	716,108	811,985	108,138
Illinois	4,848	26,650	31,498	4,576
Indiana	8,136	48,095	56,231	12,707
Iowa	6,802	25,430	32,232	1,185
Kansas	376	1,196	1,572	486
Kentucky	907	28,350	29,257	20,393
Michigan	16,673	146,213	162,886	10,683
Minnesota	26,761	103,671	130,432	2,168
Missouri	2,923	10,906	13,829	1,879
Nebraska	2,035	1,970	4,005	294
North Dakota	4,808	21,966	26,774	224
Ohio	3,044	144,871	147,915	32,503
Oklahoma	21	136	157	585
South Dakota	5,572	15,013	20,585	245
Tennessee	1,552	8,971	10,523	18,357
Wisconsin	11,418	132,669	144,087	1,852
PAD District III Total	41	1,278	1,319	10,068
Alabama	29	1,170	1,199	2,407
Arkansas	2	19	21	789
Louisiana	-	3	3	3,865
Mississippi	-	11	11	901
New Mexico	10	70	80	224
Texas	-	5	5	1,881
PAD District IV Total	35,941	36,827	72,768	1,310
Colorado	320	2,558	2,878	799
Idaho	3,631	20,627	24,258	158
Montana	30,891	7,342	38,233	73
Utah	445	4,453	4,898	217
Wyoming	655	1,847	2,502	63
PAD District V Total	28,878	142,703	171,581	13,013
Alaska	22,343	38,680	61,023	6
Arizona	52	187	239	96
California	321	4,924	5,245	5,657
Hawaii	-	15	15	1
Nevada	431	8,156	8,587	229
Oregon	2,760	32,611	35,371	1,438
Washington	2,972	58,130	61,102	5,587

Dashes (-) = No data reported.

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

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

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

Table 20. Adjusted Sales for Commercial Use: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 1997
(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	127,043	1,419,894	942,426	458,683	2,821,004	270,450	3,218,497	754,967	182,559
PAD District I Total	4,785	1,273,043	390,367	211,941	1,875,350	269,421	2,149,556	724,631	146,401
Subdistrict IA Total	1,858	428,965	75,103	31,289	535,357	64,221	601,436	185,191	18,515
Connecticut	277	95,501	16,265	7,477	119,242	7,655	127,174	13,705	4,357
Maine	260	76,524	17,120	3,499	97,143	4,459	101,863	25,044	6,581
Massachusetts	-	169,610	19,009	14,615	203,234	42,781	246,015	95,543	1,953
New Hampshire	294	41,606	10,315	829	52,750	4,374	57,418	20,221	2,437
Rhode Island	1,012	21,593	4,653	1,922	28,168	2,976	32,155	25,940	2,322
Vermont	15	24,131	7,741	2,947	34,820	1,976	36,811	4,738	865
Subdistrict IB Total	2,607	704,912	149,012	64,742	918,667	199,874	1,121,148	520,804	97,417
Delaware	-	7,914	2,569	1,273	11,756	2,909	14,665	8,283	656
District of Columbia	-	17,360	1,449	1,408	20,216	1,705	21,920	1,471	8,495
Maryland	1,427	50,345	35,408	19,039	104,793	1,275	107,495	2,127	9,531
New Jersey	7	97,594	23,101	6,651	127,346	20,230	147,583	33,865	31,496
New York	1,116	393,027	51,624	8,423	453,074	167,025	621,215	431,148	33,660
Pennsylvania	56	138,672	34,862	27,948	201,482	6,730	208,269	43,910	13,578
Subdistrict IC Total	319	139,166	166,251	115,909	421,326	5,327	426,973	18,637	30,469
Florida	-	6,675	53,005	17,511	77,192	173	77,364	5,302	2,257
Georgia	95	3,829	23,190	8,983	36,002	1,546	37,643	254	1,169
North Carolina	22	47,225	24,084	49,707	121,016	2,939	123,977	7,207	8,611
South Carolina	8	4,209	30,995	10,241	45,446	6	45,460	430	677
Virginia	81	74,405	28,658	25,161	128,223	540	128,845	5,443	15,615
West Virginia	114	2,822	6,319	4,306	13,448	122	13,684	-	2,140
PAD District II Total	86,788	121,959	257,441	143,677	523,077	578	610,444	25,234	29,328
Illinois	35,956	16,190	24,479	21,345	62,014	115	98,086	5,517	4,531
Indiana	2,864	18,422	17,486	9,914	45,822	-	48,686	376	3,639
Iowa	2,444	2,241	8,642	912	11,795	3	14,242	-	343
Kansas	2,868	1,384	14,404	2,391	18,179	-	21,047	-	1,169
Kentucky	198	4,123	25,005	12,092	41,221	131	41,550	-	4,751
Michigan	22,515	14,693	35,546	12,410	62,649	87	85,252	2,365	2,331
Minnesota	3,843	14,570	13,870	6,537	34,976	33	38,852	6,809	1,072
Missouri	2,321	2,860	19,084	27,672	49,616	58	51,995	1,420	862
Nebraska	2,598	541	2,781	1,418	4,740	-	7,338	404	109
North Dakota	1,791	5,976	3,115	560	9,652	-	11,443	382	22
Ohio	947	9,948	25,154	26,318	61,420	7	62,374	86	5,318
Oklahoma	1,008	119	21,925	2,140	24,184	-	25,192	-	684
South Dakota	1,939	5,635	2,205	1,909	9,749	5	11,693	358	24
Tennessee	263	3,655	20,502	12,250	36,406	107	36,776	1,885	4,159
Wisconsin	5,231	21,602	23,244	5,809	50,654	33	55,918	5,632	314
PAD District III Total	3,566	2,054	75,202	39,790	117,045	72	120,683	-	2,949
Alabama	-	1,005	9,397	5,624	16,026	72	16,097	-	374
Arkansas	18	4	4,911	3,167	8,082	-	8,100	-	220
Louisiana	99	414	2,753	6,056	9,223	-	9,322	-	110
Mississippi	17	-	6,463	3,405	9,868	-	9,884	-	533
New Mexico	153	11	4,440	455	4,905	-	5,059	-	120
Texas	3,279	621	47,238	21,083	68,942	-	72,220	-	1,593
PAD District IV Total	14,670	8,706	78,042	11,921	98,670	-	113,340	550	462
Colorado	7,046	1,523	40,670	563	42,756	-	49,802	-	205
Idaho	1,563	1,836	10,241	5,960	18,037	-	19,600	35	44
Montana	1,955	2,045	4,731	300	7,075	-	9,031	48	10
Utah	1,445	665	15,790	4,755	21,209	-	22,654	461	149
Wyoming	2,662	2,638	6,611	343	9,592	-	12,254	7	54
PAD District V Total	17,233	14,132	141,374	51,355	206,861	380	224,474	4,552	3,419
Alaska	11,903	6,388	3,616	8,975	18,980	375	31,258	-	14
Arizona	175	34	19,530	1,868	21,432	-	21,607	-	160
California	160	1,472	72,086	8,372	81,930	-	82,090	73	1,737
Hawaii	2	67	10,299	2,576	12,941	-	12,943	468	7
Nevada	547	1,477	5,794	1,483	8,754	-	9,301	30	32
Oregon	1,675	2,479	12,655	14,581	29,715	4	31,394	2,063	927
Washington	2,771	2,215	17,395	13,500	33,110	-	35,881	1,918	542

Dashes (-) = No data reported.

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

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

• Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1997, (DOE/EIA-0340(97)/1).

Table 21. Adjusted Sales for Industrial Use: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 1997
(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	61,400	430,776	573,200	1,042,657	2,046,632	59,136	2,167,169	1,815,165	110,738
PAD District I Total	2,357	267,187	92,445	317,755	677,387	45,542	725,286	1,398,504	66,284
Subdistrict IA Total	63	66,822	9,726	7,268	83,816	17,142	101,021	431,434	5,190
Connecticut	-	17,141	691	83	17,915	7,858	25,772	16,105	1,608
Maine	63	25,140	1,749	995	27,884	749	28,695	284,837	1,388
Massachusetts	-	10,623	3,909	3,258	17,790	3,994	21,784	73,474	710
New Hampshire	-	1,829	784	2,152	4,764	1,354	6,118	35,381	762
Rhode Island	-	6,840	2,115	534	9,489	1,867	11,356	12,574	132
Vermont	-	5,249	479	246	5,974	1,321	7,295	9,063	591
Subdistrict IB Total	536	102,375	32,296	51,240	185,910	19,998	206,444	259,917	48,276
Delaware	8	1,494	5,162	868	7,523	769	8,300	33,625	246
District of Columbia	-	269	2	12	284	-	284	-	18
Maryland	493	11,414	6,678	6,260	24,352	900	25,745	35,152	1,121
New Jersey	2	24,479	1,735	5,685	31,899	7,535	39,437	55,412	27,498
New York	-	28,437	4,018	4,119	36,575	5,824	42,399	82,958	14,508
Pennsylvania	32	36,282	14,700	34,296	85,278	4,969	90,280	52,769	4,884
Subdistrict IC Total	1,758	97,990	50,423	259,247	407,661	8,403	417,821	707,153	12,818
Florida	-	10,340	13,538	18,066	41,945	3,492	45,437	143,797	2,085
Georgia	-	11,173	4,810	25,502	41,485	487	41,972	130,498	762
North Carolina	-	32,799	13,486	31,999	78,284	3,287	81,572	236,356	4,154
South Carolina	-	9,023	2,938	8,809	20,770	201	20,971	84,108	2,629
Virginia	24	18,168	9,196	87,564	114,928	936	115,887	102,530	802
West Virginia	1,734	16,487	6,454	87,308	110,249	-	111,983	9,864	2,386
PAD District II Total	31,263	146,745	138,762	383,767	669,274	6,167	706,703	208,599	19,238
Illinois	2,504	11,127	11,530	58,964	81,621	11	84,135	27,604	3,831
Indiana	1,978	29,419	22,080	23,451	74,951	47	76,975	24,146	1,257
Iowa	1,509	1,928	11,310	1,556	14,795	199	16,503	3,050	208
Kansas	544	2,132	4,282	5,452	11,867	6	12,417	7,148	175
Kentucky	405	12,577	11,419	147,438	171,434	2,007	173,847	3,966	3,973
Michigan	546	10,829	14,584	18,650	44,063	-	44,609	13,360	1,014
Minnesota	7,180	15,374	11,133	8,839	35,346	303	42,829	15,747	64
Missouri	2,374	8,728	14,309	8,710	31,747	945	35,066	7,661	341
Nebraska	728	210	1,050	2,011	3,271	495	4,494	4,289	20
North Dakota	1,761	4,445	1,144	1,484	7,074	-	8,835	3,481	6
Ohio	664	10,629	9,597	57,276	77,502	930	79,096	46,490	6,351
Oklahoma	91	220	1,380	6,777	8,377	64	8,532	11,055	298
South Dakota	829	757	2,028	601	3,385	101	4,315	2,353	10
Tennessee	-	6,526	11,658	29,646	47,830	993	48,822	4,551	1,317
Wisconsin	10,149	31,842	11,258	12,911	56,011	66	66,226	33,696	373
PAD District III Total	2,624	6,125	73,876	131,795	211,796	2,618	217,037	156,545	16,264
Alabama	-	4,004	11,944	24,414	40,362	164	40,526	25,589	2,474
Arkansas	-	99	1,151	13,215	14,464	1,491	15,955	890	166
Louisiana	-	214	1,463	11,697	13,375	-	13,375	43,233	902
Mississippi	-	1,399	8,264	16,822	26,485	963	27,449	1,313	1,209
New Mexico	2,620	409	14,836	11,229	26,474	-	29,094	6,695	202
Texas	4	-	36,217	54,417	90,634	-	90,639	78,825	11,311
PAD District IV Total	15,846	4,721	148,974	30,737	184,432	322	200,600	3,190	1,249
Colorado	2,190	84	20,047	2,532	22,663	-	24,853	125	66
Idaho	3,118	1,482	9,758	18,144	29,383	-	32,501	54	169
Montana	2,993	1,029	22,421	1,209	24,658	3	27,654	-	3
Utah	1,104	534	19,567	7,863	27,964	15	29,082	2,854	96
Wyoming	6,440	1,592	77,182	990	79,765	305	86,510	157	915
PAD District V Total	9,311	5,998	119,143	178,603	303,743	4,488	317,542	48,328	7,703
Alaska	4,002	2,072	2,469	16,739	21,280	-	25,282	5,915	-
Arizona	2,126	-	27,698	59,218	86,916	77	89,119	601	77
California	41	876	38,757	3,077	42,709	4,132	46,881	3,452	7,261
Hawaii	-	45	913	1,096	2,053	-	2,053	10,503	13
Nevada	2,840	29	33,572	76,187	109,787	-	112,627	8,746	60
Oregon	274	2,350	10,686	15,807	28,843	278	29,395	7,083	74
Washington	29	626	5,048	6,480	12,154	1	12,184	12,029	218

Dashes (-) = No data reported.

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

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

• Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1997, (DOE/EIA-0340(97)/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, 1997
(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	3,206,359	98,172	3,304,531	21,556	646,778	4,655,775	632,595	153,424
PAD District I Total	348,161	40,839	388,999	7,880	243,039	3,897,100	8,024	65,532
Subdistrict IA Total	11,993	5,644	17,637	908	15,536	1,432,678	378	222
Connecticut	2,458	622	3,080	16	2,470	553,297	119	222
Maine	2,274	1,930	4,205	228	1,582	105,069	-	-
Massachusetts	1,968	1,563	3,531	139	7,639	744,052	255	-
New Hampshire	871	401	1,273	239	2,736	30,260	-	-
Rhode Island	79	32	111	-	906	-	1	-
Vermont	4,343	1,095	5,438	285	204	-	3	-
Subdistrict IB Total	85,967	18,931	104,897	1,430	89,626	898,515	3,684	64,427
Delaware	5,356	5	5,361	22	3,158	69,093	1,662	18,237
District of Columbia	-	-	-	-	13,001	-	-	-
Maryland	23,416	1,705	25,122	574	27,289	93,615	44	634
New Jersey	4,196	2,013	6,209	17	7,290	18,331	461	2,437
New York	25,755	9,931	35,687	267	9,464	651,476	738	880
Pennsylvania	27,243	5,276	32,519	549	29,424	66,000	778	42,240
Subdistrict IC Total	250,201	16,264	266,465	5,541	137,877	1,565,906	3,962	882
Florida	81,018	171	81,189	89	65,736	1,517,580	568	345
Georgia	88,032	733	88,765	17	11,884	2,143	763	-
North Carolina	29,726	3,559	33,284	2,081	16,213	-	191	-
South Carolina	14,480	6,419	20,899	188	22,165	1,143	1	135
Virginia	33,947	5,301	39,248	2,938	9,082	45,040	2,131	402
West Virginia	2,999	82	3,080	229	12,796	-	307	-
PAD District II Total	1,724,228	50,570	1,774,798	11,647	177,559	83,114	50,765	50,624
Illinois	210,277	3,845	214,122	1,805	34,226	20,256	1,600	1,283
Indiana	101,772	1,722	103,494	1,337	27,206	-	4,495	21,727
Iowa	207,962	8,497	216,459	901	3,419	-	-	-
Kansas	186,619	426	187,045	512	5,296	14,871	5,975	-
Kentucky	41,750	573	42,323	1,550	9,159	-	618	3,078
Michigan	54,192	4,155	58,347	515	23,834	36,565	2,114	4,306
Minnesota	178,663	12,424	191,087	940	6,563	3,790	26	6,415
Missouri	62,290	59	62,349	114	6,847	7,483	84	-
Nebraska	185,676	754	186,429	464	2,444	-	1,059	-
North Dakota	94,033	1,995	96,028	19	5,533	66	3,692	4,095
Ohio	90,182	5,308	95,490	2,666	27,073	83	1,487	4,082
Oklahoma	75,093	565	75,658	265	869	-	29,362	-
South Dakota	75,942	2,627	78,569	81	5	-	190	-
Tennessee	74,664	128	74,792	309	14,062	-	64	60
Wisconsin	85,113	7,491	92,604	169	11,024	-	-	5,576
PAD District III Total	476,400	1,781	478,181	620	48,406	226,311	459,986	5
Alabama	25,145	5	25,151	12	6,285	-	6,237	-
Arkansas	78,731	197	78,928	147	5,886	2,297	1,288	5
Louisiana	37,911	-	37,911	12	14,779	33,564	237,031	-
Mississippi	74,626	311	74,937	62	2,557	188,578	1,072	-
New Mexico	9,678	2	9,680	51	1,310	-	16,389	-
Texas	250,308	1,266	251,575	336	17,588	1,872	197,969	-
PAD District IV Total	269,801	2,359	272,160	541	7,084	-	44,047	9,901
Colorado	85,491	648	86,138	125	451	-	7,708	-
Idaho	62,590	260	62,850	381	34	-	1	-
Montana	77,651	1,186	78,837	2	15	-	2,237	6,866
Utah	25,413	187	25,600	28	2,450	-	6,765	3,035
Wyoming	18,657	78	18,735	5	4,134	-	27,336	-
PAD District V Total	387,770	2,623	390,392	869	170,691	449,250	69,773	27,362
Alaska	1	1	2	-	56,410	-	62,793	-
Arizona	24,093	-	24,093	12	3,309	-	71	-
California	275,992	311	276,302	224	6,602	-	4,036	891
Hawaii	4,908	501	5,409	-	102,024	449,197	1,442	25,536
Nevada	5,049	-	5,049	10	1,738	-	383	43
Oregon	32,513	1,493	34,006	53	448	53	94	-
Washington	45,214	317	45,531	569	159	-	954	891

Dashes (-) = No data reported.

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

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

• Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1997, (DOE/EIA-0340(97)/1).

Table 23. Adjusted Sales for Transportation Use: Distillate Fuel Oil and Residual Fuel Oil, 1997
(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	3,067,400	2,107,561	4,789,861	28,614,022	33,788,983	4,789,861
PAD District I Total	537,406	502,983	1,337,659	8,951,981	9,992,369	1,337,659
Subdistrict IA Total	25,145	61,326	58,939	913,558	1,000,029	58,939
Connecticut	8,320	3,254	228	216,062	227,637	228
Maine	6,197	12,513	10	138,527	157,236	10
Massachusetts	9,702	33,437	58,519	344,131	387,271	58,519
New Hampshire	127	385	124	^E 64,481	64,993	124
Rhode Island	126	11,272	58	72,916	84,314	58
Vermont	672	465	-	77,441	78,579	-
Subdistrict IB Total	143,640	143,559	786,100	3,306,771	3,593,971	786,100
Delaware	432	2,142	70,056	63,187	65,760	70,056
District of Columbia	5,200	-	-	21,572	26,772	-
Maryland	30,929	11,789	25,216	370,944	413,663	25,216
New Jersey	53,852	104,768	277,638	^E 633,028	791,648	277,638
New York	8,972	5,166	217,982	^E 977,851	991,989	217,982
Pennsylvania	44,256	19,694	195,208	1,240,189	1,304,138	195,208
Subdistrict IC Total	368,620	298,097	492,620	4,731,652	5,398,370	492,620
Florida	73,735	148,368	359,805	1,177,788	1,399,891	359,805
Georgia	100,179	12,019	47,162	1,185,844	1,298,041	47,162
North Carolina	69,026	28,110	8,442	854,189	951,325	8,442
South Carolina	14,322	15,530	18,704	484,503	514,355	18,704
Virginia	93,432	27,220	58,508	832,903	953,555	58,508
West Virginia	17,926	66,851	-	^E 196,425	281,202	-
PAD District II Total	1,372,891	461,014	24,910	9,659,243	11,493,148	24,910
Illinois	149,632	44,690	2,013	936,299	1,130,621	2,013
Indiana	107,950	41,333	16,835	1,121,011	1,270,294	16,835
Iowa	54,010	6,244	-	457,122	517,376	-
Kansas	90,780	-	-	^E 364,088	454,868	-
Kentucky	99,640	111,996	-	683,925	895,560	-
Michigan	48,844	5,947	2,205	808,162	862,954	2,205
Minnesota	74,410	3,059	406	502,305	579,775	406
Missouri	27,238	182,450	266	814,212	1,023,900	266
Nebraska	201,598	75	-	316,626	518,299	-
North Dakota	46,732	-	-	145,436	192,168	-
Ohio	165,583	5,878	2,497	1,400,649	1,572,109	2,497
Oklahoma	173,552	170	-	562,915	736,637	-
South Dakota	1,901	-	-	140,377	142,278	-
Tennessee	89,659	57,016	171	776,452	923,127	171
Wisconsin	41,363	2,156	516	629,664	673,183	516
PAD District III Total	468,499	824,577	1,830,219	4,738,216	6,031,292	1,830,219
Alabama	34,278	47,654	82,863	656,302	738,234	82,863
Arkansas	37,296	2,098	-	532,548	571,942	-
Louisiana	17,575	535,892	831,222	525,902	1,079,370	831,222
Mississippi	19,909	27,934	53,371	431,389	479,233	53,371
New Mexico	18,106	-	-	341,429	359,535	-
Texas	341,335	210,998	862,763	2,250,646	2,802,979	862,763
PAD District IV Total	357,683	251	-	1,224,729	1,582,663	-
Colorado	62,064	-	-	291,105	353,169	-
Idaho	37,309	229	-	^E 202,725	240,263	-
Montana	89,685	-	-	^E 178,706	268,391	-
Utah	47,036	22	-	293,452	340,511	-
Wyoming	121,589	-	-	258,741	380,330	-
PAD District V Total	330,922	318,736	1,597,073	4,039,853	4,689,511	1,597,073
Alaska	3,736	106,832	92	^E 68,374	178,942	92
Arizona	2,759	20	-	^E 557,464	560,243	-
California	189,739	124,356	904,248	2,288,069	2,602,164	904,248
Hawaii	-	15,038	18,690	28,487	43,525	18,690
Nevada	6,645	-	-	221,981	228,626	-
Oregon	67,519	10,854	138,027	^E 408,624	486,997	138,027
Washington	60,523	61,637	536,017	466,854	589,014	536,017

^E Estimated data.

Dashes (-) = No data reported.

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

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

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

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

Table 24. Adjusted Sales for Military, Off-Highway, and All Other Uses: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 1997
(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	303,508	33,882	337,390	40,311	1,678,482	403,246	2,081,728	-	3,886	7,054
PAD District I Total	30,236	27,032	57,268	33,118	497,268	100,993	598,261	-	3,726	2,563
Subdistrict IA Total	2,206	4,274	6,480	5,762	47,708	16,443	64,151	-	489	243
Connecticut	169	3,577	3,745	819	6,952	776	7,729	-	178	-
Maine	223	571	794	4,573	10,769	10,607	21,376	-	278	36
Massachusetts	1,675	45	1,719	370	21,664	1,722	23,386	-	33	24
New Hampshire	-	-	-	-	3,731	2,354	6,085	-	-	88
Rhode Island	21	72	93	-	2,884	468	3,352	-	-	2
Vermont	119	9	128	-	1,706	516	2,222	-	-	93
Subdistrict IB Total	9,703	13,864	23,567	13,520	155,340	9,450	164,791	-	-	1,434
Delaware	434	22	456	1,029	4,145	121	4,265	-	-	-
District of Columbia	59	75	134	-	607	-	607	-	-	-
Maryland	4,725	4,691	9,416	5,669	21,478	1,738	23,216	-	-	23
New Jersey	1,212	24	1,236	6,670	27,770	3,631	31,401	-	-	141
New York	1,167	470	1,637	-	47,683	103	47,786	-	-	381
Pennsylvania	2,106	8,583	10,688	152	53,657	3,859	57,516	-	-	889
Subdistrict IC Total	18,327	8,894	27,221	13,836	294,220	75,099	369,320	-	3,237	886
Florida	5,402	-	5,402	2,224	110,659	10,878	121,537	-	2,629	20
Georgia	2,331	-	2,331	11	53,557	26,078	79,636	-	-	226
North Carolina	1,220	256	1,476	3,368	51,302	7,775	59,077	-	609	464
South Carolina	2,106	885	2,991	4,755	24,168	17,873	42,041	-	-	34
Virginia	7,224	7,753	14,978	3,479	47,670	11,586	59,255	-	-	97
West Virginia	44	-	44	-	6,863	909	7,773	-	-	46
PAD District II Total	19,554	3,264	22,817	365	571,521	98,981	670,502	-	56	3,462
Illinois	1,247	29	1,276	3	56,869	4,120	60,989	-	-	654
Indiana	38	346	384	-	30,935	7,770	38,705	-	-	353
Iowa	2,344	-	2,344	-	44,999	10,044	55,044	-	-	23
Kansas	1,172	-	1,172	-	27,992	896	28,888	-	-	94
Kentucky	1,560	-	1,560	-	29,121	6,854	35,974	-	-	199
Michigan	381	-	381	-	55,511	16,741	72,252	-	24	329
Minnesota	386	-	386	-	37,621	13,296	50,917	-	-	46
Missouri	1,220	-	1,220	362	51,335	9,094	60,428	-	-	50
Nebraska	583	51	634	-	15,415	1,498	16,912	-	-	94
North Dakota	614	81	694	-	6,629	1,030	7,659	-	-	13
Ohio	227	-	227	-	71,835	6,576	78,411	-	-	1,218
Oklahoma	456	480	936	-	39,194	1,274	40,468	-	-	67
South Dakota	982	1,484	2,467	-	7,223	1,124	8,346	-	-	8
Tennessee	1,388	-	1,388	-	62,301	6,765	69,066	-	-	228
Wisconsin	6,954	793	7,746	-	34,544	11,899	46,444	-	32	87
PAD District III Total	115,533	1,221	116,754	669	238,432	91,973	330,406	-	42	606
Alabama	680	-	680	-	28,932	31,203	60,135	-	-	62
Arkansas	536	265	800	-	13,178	10,413	23,590	-	-	104
Louisiana	11,586	956	12,543	669	81,225	6,905	88,130	-	-	235
Mississippi	3,517	-	3,517	-	14,899	20,752	35,651	-	-	11
New Mexico	1,571	-	1,571	-	6,490	671	7,161	-	42	7
Texas	97,642	-	97,642	-	93,710	22,029	115,739	-	-	187
PAD District IV Total	2,197	1,577	3,774	-	142,631	35,404	178,036	-	59	68
Colorado	1,114	-	1,114	-	47,838	4,207	52,046	-	17	32
Idaho	488	-	488	-	18,703	17,209	35,912	-	4	-
Montana	249	-	249	-	20,272	6,205	26,478	-	-	-
Utah	345	1,540	1,885	-	35,282	3,953	39,235	-	22	16
Wyoming	-	37	37	-	20,537	3,829	24,365	-	15	20
PAD District V Total	135,989	789	136,777	6,159	228,629	75,895	304,523	-	3	354
Alaska	2,194	462	2,656	-	10,455	19,713	30,168	-	-	1
Arizona	406	-	406	-	24,312	1,995	26,307	-	-	2
California	18,242	-	18,242	3,383	120,772	15,237	136,008	-	-	150
Hawaii	6,987	-	6,987	2,190	11,094	555	11,649	-	-	-
Nevada	1,191	-	1,191	-	14,537	1,336	15,873	-	-	-
Oregon	474	17	491	-	11,904	17,447	29,351	-	-	117
Washington	106,495	309	106,804	585	35,555	19,612	55,167	-	3	83

Dashes (-) = No data reported.

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

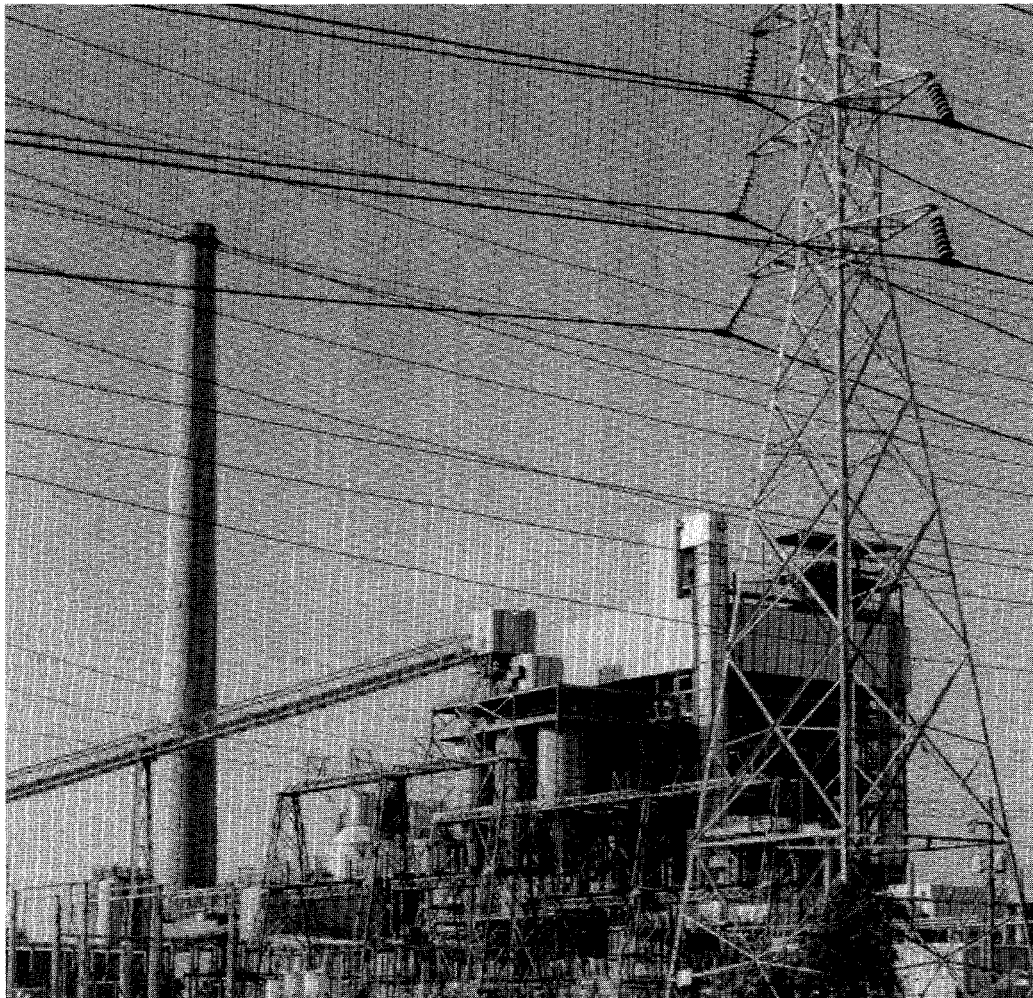
Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 1997.

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

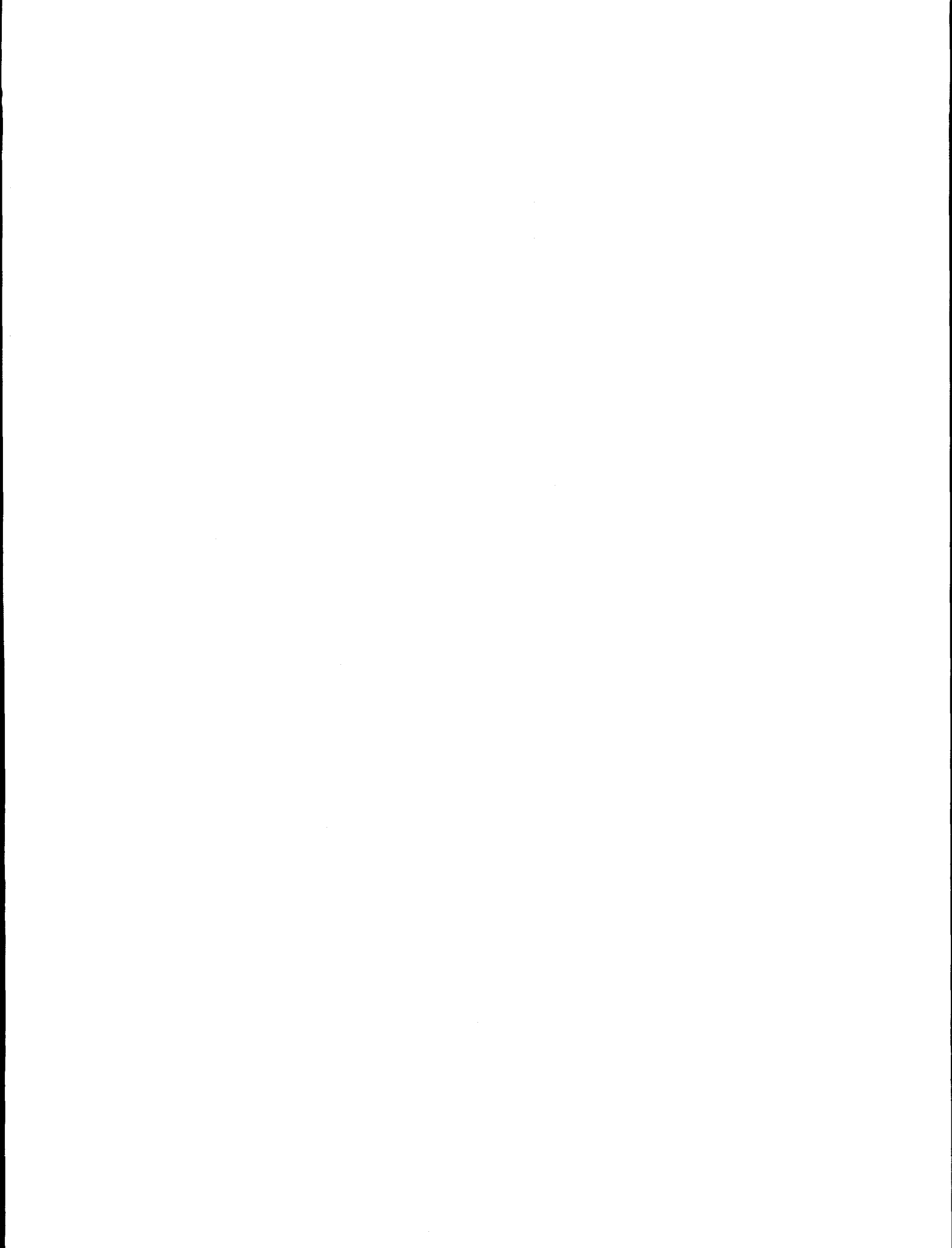


Appendix A

Technical Notes



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



Technical Notes

Note 1: EIA-821: Annual Fuel Oil and Kerosene Sales Report, 1997

Background

The EIA-821, "Annual Fuel Oil and Kerosene Sales Report" survey was implemented to meet Energy Information Administration (EIA) legislative mandates and data user needs. Form EIA-821 is used to gather data on the sales to end users of distillate fuel oil, residual fuel oil, and kerosene. The data are used to determine the level of demand by end-use category and product at the State, regional, and national levels. This mandatory report is authorized by the Federal Energy Administration Act of 1974 (P. L. 93-275).

The predecessor survey to the EIA-821 was the EIA-172, "Sales Report of Fuel Oil and Kerosene" survey. The EIA-172 was conducted for reference years 1979 through 1982. Due to a serious deterioration in the sample of respondents during the 4-year period, the Form EIA-172 data were not collected for 1983. Instead, estimates for 1983 were published and a new sample of respondents was designed and selected from an improved sampling frame. The EIA-821 survey commenced with reference year 1984.

Discussion of Sampling Frame

The target population for the fuel oil and kerosene sales survey is the universe of companies that sell fuel oil and kerosene to end users.

The EIA-863 data base provided the sampling frame for the EIA-821 survey. The EIA-863, "Petroleum Product Sales Identification Survey," was mailed to approximately 30,000 companies in January 1995 to collect 1994 State-level sales volume data for No. 2 distillate, residual fuel, motor gasoline, and propane. Companies also indicated if they sold kerosene. The No. 2 distillate data were further identified by residential and nonresidential end use, and non-end-use sales; the residual data were identified by end use and non-end-use; motor gasoline was identified by end use and non-end use and by conventional and oxygenated and/or reformulated; and propane was identified by residential, nonresidential, and non-end-use sales. The mailing list for the EIA-863 survey was con-

structed by merging and unduplicating the 1991 frame file and more than 50 State and commercial lists. In addition, company/State-level volumes for distillate fuel, residual fuel, motor gasoline, and propane from the 1994 EIA-821 survey were merged with the EIA-863 to yield a combined data file. The transformed and edited version of the frame was then used to design and select the 1995 EIA-821 sample.

It should be noted that truck stops selling No. 2 diesel fuel were not specifically included in the EIA-863 survey. Therefore, the EIA-821 survey does not include all sales of No. 2 distillate through retail truck stops. However, to compensate for this shortage in coverage, data from the Federal Highway Administration are presented in the tables for on-highway diesel sales.

The sampling frame also lacked full coverage of kerosene retailers, many of whom are hardware stores and service stations. To account for all kerosene volumes supplied to the marketplace, aggregate reported kerosene volumes are set equal to the products supplied volumes published in the *Petroleum Supply Annual*.

Discussion of the Sample Design

The purpose of the EIA-821 sample design was to produce State-level estimates of total sales for the following five target variables: (1) residential No. 2 distillate, (2) other retail No. 2 distillate, (3) wholesale No. 2 distillate, (4) retail residual, and (5) wholesale residual. A separate sample was initially designed for each target variable.

Companies were divided into two basic types of strata: certainty and noncertainty. Companies selected with certainty were:

- all refiners and gas plant operators
- companies doing business in four or more States
- companies accounting for 5 percent or more of the distillate or residual fuel oil volume for any target variable or particular end-use category sold in a State.
- companies accounting for 5 percent or more of the kerosene volume sold in a State in an earlier EIA-821 survey.

- augmented frame units, e.g., vessel bunkering, for which no attribute data were available.

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

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

Imputation and Estimation

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

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

where:

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

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

The degree of imputation by product and end use at the U.S. total level ranged as follows for the 1997 EIA-821 data: distillate, 1.1 percent for railroad use to 17.1 percent for off-highway use; residual fuel oil, 0.0 percent for all other uses to 1.2 percent for commercial use; and kerosene, 0.6 percent for all other uses to 2.8 percent for residential use.

Collection Methods

The EIA-821 form was mailed in January 1998 to all companies selected for participation in the 1997 reference year survey. The completed form was due to EIA on March 2, 1998. A second request was sent by certified mail to nonrespondents approximately 1 month after the filing deadline. Follow-up telephone calls were made to collect outstanding data and to verify reported data. Late submissions and resubmissions were processed when received.

Data Processing

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

Note 2: Reliability of the Data

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

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

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

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

Data in Tables 1 through 12 are based on survey data which are subject to sampling errors. Coefficients of variation, which are estimates of sampling errors, are presented for the retail target variables in the following table for the 1995 survey. The coefficients of variation (CV) were estimated by:

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

where:

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

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

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

\hat{V} = total estimated volume,

N_h = stratum population for stratum h,

n_h = number of sample units in stratum h,

V_i = volume for unit i,

W_i = weight for unit i.

Response rates also offer some indication of the reliability and comprehensiveness of survey results. For the 1997 EIA-821 survey, the overall response rate (the number of submissions received, divided by the number of submissions solicited and expected, times 100) was 92.8 percent.

Coefficients of Variation for Sales of Fuel Oil, 1997

Geographic Area	Residential Distillate Fuel Oil	Non-Residential Retail Distillate Fuel Oil	Retail Residual Fuel Oil
U.S. Average	1.9	2.2	0.1
PAD District I Average	2.2	1.7	0.1
Subdistrict IA Average	3.5	1.8	0.1
Connecticut	4.6	3.3	0.0
Maine	11.2	3.6	0.0
Massachusetts	7.3	3.5	0.1
New Hampshire	6.3	4.3	0.0
Rhode Island	5.1	7.1	0.0
Vermont	2.7	3.8	0.0
Subdistrict IB Average	3.1	3.3	0.1
Delaware	3.7	6.2	0.0
District of Columbia	0.8	0.1	0.0
Maryland	4.6	3.3	0.0
New Jersey	6.4	4.8	0.0
New York	5.5	2.4	0.2
Pennsylvania	5.5	7.6	0.0
Subdistrict IC Average	3.4	2.3	0.1
Florida	10.7	3.3	0.0
Georgia	19.2	5.3	0.0
North Carolina	4.9	6.4	0.2
South Carolina	6.0	7.8	0.0
Virginia	5.7	5.3	0.3
West Virginia	7.5	3.2	0.0
PAD District II Average	3.2	1.3	0.0
Illinois	9.8	7.1	0.0
Indiana	7.1	3.1	0.0
Iowa	11.0	4.9	0.0
Kansas	30.0	6.8	0.0
Kentucky	16.9	3.8	0.0
Michigan	7.7	4.4	0.0
Minnesota	9.0	7.7	0.0
Missouri	5.7	4.0	0.0
Nebraska	21.1	3.4	0.0
North Dakota	8.5	4.6	0.0
Ohio	7.0	3.0	0.0
Oklahoma	65.7	6.1	0.0
South Dakota	7.4	5.0	0.0
Tennessee	14.9	3.1	0.0
Wisconsin	9.6	4.7	0.0
PAD District III Average	0.1	10.6	0.1
Alabama	0.1	5.0	0.1
Arkansas	55.3	4.3	0.0
Louisiana	27.5	9.5	0.0
Mississippi	2.1	4.6	0.0
New Mexico	3.1	4.6	0.0
Texas	0.0	19.8	0.0
PAD District IV Average	31.8	1.9	0.0
Colorado	70.6	3.4	0.0
Idaho	8.6	4.1	0.0
Montana	60.0	7.1	0.0
Utah	12.2	3.7	0.0
Wyoming	44.6	3.0	0.0
PAD District V Average	2.5	2.5	0.1
Alaska	4.8	2.5	0.0
Arizona	11.1	5.7	0.0
California	8.4	4.9	0.0
Hawaii	28.9	6.1	0.0
Nevada	0.9	3.9	0.0
Oregon	6.1	4.5	0.0
Washington	3.6	3.8	0.1

Note: Coefficients of variation that are less than 0.1 and greater than zero are displayed as 0.1.

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

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 1993 through 1997 special fuels, more than 98 percent is diesel.

Tables 13 through 24:

Electric Utility. National-level distillate and residual fuel oil sales for electric utility use were calculated from annual aggregations of data collected on forms EIA-759, "Monthly Power Plant Report," and FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." Form EIA-759 consumption data for light oils include No. 2 fuel oil, kerosene, and jet fuel; the heavy oils include No. 4 fuel oil, residual fuel oil, and crude oil. Using receipt data from Form FERC-423, the No. 4 fuel oil receipts were deleted from the heavy oil consumption data and added to the light oil consumption data. The resultant distillate (light oils) and residual (heavy oils) consumption data were added to the stock change of light oils and heavy oils, respectively, from Form EIA-759 to obtain the estimate of sales. Allocations at the State level were based on the EIA-821 survey.

On-Highway Diesel. Distillate fuel oil by State was calculated from the Federal Highway Administration data on highway use of special fuels. Of the 1993 through 1997 special fuels, more than 98 percent is diesel.

1993 through 1997 Adjustments

Kerosene volumes in Tables 1 through 24 are adjusted at the national level to equal products supplied volumes as published in the "Detailed Statistics" section

of the *Petroleum Supply Annual* (PSA). The 1997 survey resulted in 737,581 thousand gallons of kerosene at the national level. The products supplied volume at the national level for kerosene was 1,009,932 thousand gallons. Hence, the adjustment factor at the national level for 1997 was 1.37.

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 1997 are as follows:

Distillate Fuel Oil

- PAD District I: 1.00
- PAD District II: 1.02
- PAD District III: .69
- PAD District IV: 1.28
- PAD District V: .76

For Tables 13 through 24, total sales at the PAD district level equal the products supplied volumes as reported in the PSA, 1993 through 1997. For example, the 1997 survey yielded a volume for distillate residential use in PAD District II of 794,206 thousand gallons. The total distillate volume for PAD District II was 6,339,992 from the survey, after subtracting the volume coming from alternate sources. The product supplied total distillate volume for PAD District II was 6,481,920 after removing alternate source volume. Hence, the adjusted 1997 estimate of distillate for residential use in PAD District II was $(6,481,920 / 6,339,992) \times 794,206 = 811,985$.

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 1997 survey yielded 12,504,135 thousand gallons of residual fuel oil, while the products supplied volume at the national level was 12,213,390 thousand gallons. Thus, the adjustment factor at the national level for 1997 was .96, after subtracting the volumes coming from alternate sources. For residual fuel oil, the adjustments were made to each State and end-use category except electric utility use.

Note 4: End-Use Descriptions and Petroleum Product Definitions

End-Use Descriptions

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

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

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

Oil Company Use. Includes sales to drilling companies, pipelines or other related oil companies not engaged in the selling of petroleum products. Includes fuel oil that was purchased or produced and used by company facilities for the operation of drilling equipment, other field or refinery operations, and space heating at petroleum refineries, pipeline companies, and oil-drilling companies. Oil used to bunker vessels is counted under vessel bunkering. Sales to other oil companies for field use are included, but sales for use as refinery charging stocks are excluded.

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

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

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

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

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

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

Off-Highway Use. Includes sales for use in:

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

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

Definitions of Petroleum Products and Other Related Terms

ASTM. The acronym for the American Society for Testing and Materials.

Distillate Fuel Oil. A general classification for one of the petroleum fractions produced in conventional distillation operations. It is used primarily for space heating, on- and off-highway diesel engine fuel (including railroad engine fuel and fuel for agricultural machinery), and electric power generation. Included are products known as No. 1, No. 2, and No. 4 fuel oils and No. 1, No. 2, and No. 4 diesel fuels.

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

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

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

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

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

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

- b. **No. 2 Fuel Oil.** A distillate fuel oil for use in atomizing type burners for domestic heating or for moderate capacity commercial-industrial burner units. ASTM Specification D 396 specifies for this grade distillation temperatures at the 90-percent point between 540 and 640 degrees Fahrenheit, and kinematic viscosities between 2.0 and 3.6 centistokes at 100 degrees Fahrenheit.
3. **No. 4 Fuel.** A fuel oil for commercial burner installations not equipped for preheating facilities. It is used extensively in industrial plants. This grade is a blend of distillate fuel oil and residual fuel oil stocks that conforms to ASTM Specification D 396 or Federal Specification VV-F-815C; its kinematic viscosity is between 5.8 and 26.4 centistokes at 100 degrees Fahrenheit. Also included is No. 4-D, a fuel oil for low- and medium-speed diesel engines that conforms to ASTM Specification D 975.

NOTE: Respondents to the EIA-821 survey were instructed to report all volumes in accordance with what the product was sold as, regardless of the actual specifications of that product. For example, if a No. 2 distillate was

sold as a heating oil or fuel oil, the volume would be reported in the category "No. 2 Fuel Oil" even if the product conformed to the higher specifications of a diesel fuel.

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

PAD District. Petroleum Administration for Defense Districts

PAD District I:

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

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

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

PAD District II:

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

PAD District III:

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

PAD District IV:

Colorado, Idaho, Montana, Utah, and Wyoming

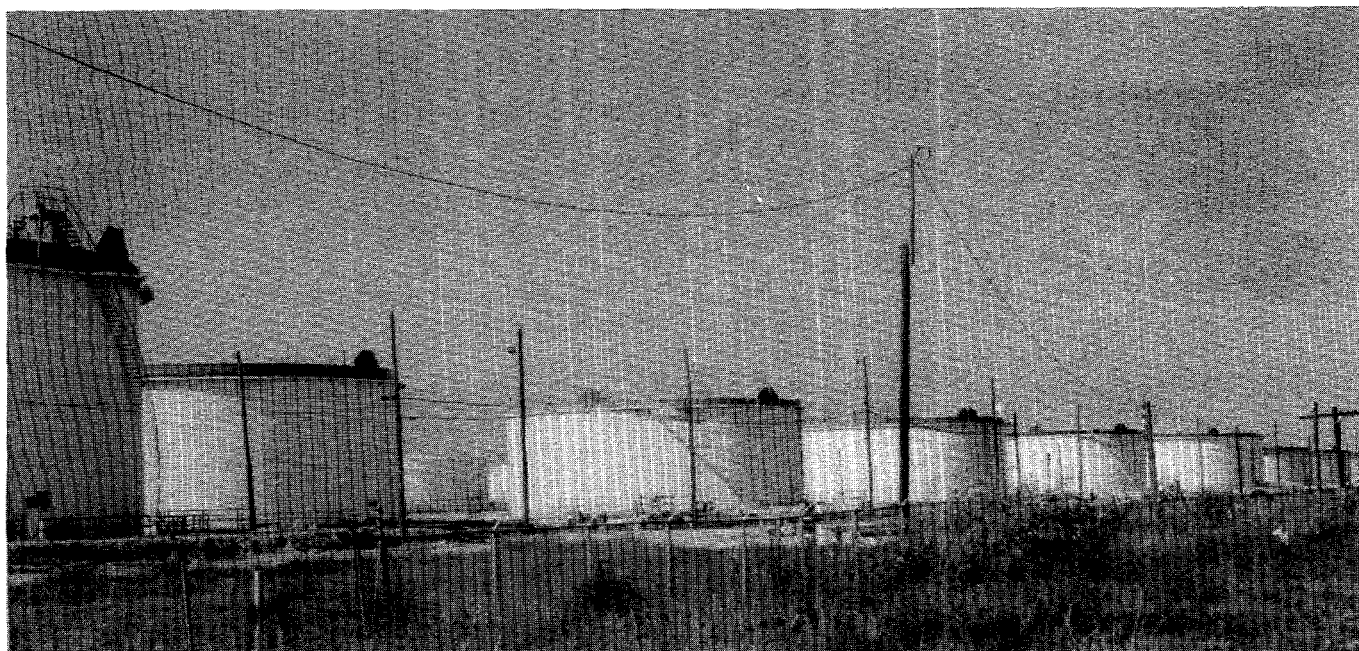
PAD District V:

Alaska, Arizona, California, Hawaii, Nevada, Oregon, and Washington

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

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

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



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

Appendix B

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

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Appendix B

EIA-821 (12-97)

U.S. DEPARTMENT OF ENERGY
Energy Information Administration

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

EIA-821: ANNUAL FUEL OIL AND KEROSENE SALES REPORT

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

PART I. IDENTIFICATION DATA

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

Provide Corrections to Company Name, Telephone Number, and Address in Items 1-8									
1. Company Name		4. Street							
2. Name of Contact Person		5. P.O. Box / RFD							
3. Contact's Telephone Number <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> - <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> </div>		6. City	7. State						
		8. Zip Code							
9. Reference Year 1997	10. Type of Report (<i>Check One</i>) (1) <input type="checkbox"/> Original (2) <input type="checkbox"/> Resubmission		11. The Number of States for Which You Are Reporting <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> </div>						
12. Which of the following best describes this firm at the end of 1997? <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>a. <input type="checkbox"/> In operation - Sales include petroleum products</p> <p>b. (1) <input type="checkbox"/> Sold or Merged (2) <input type="checkbox"/> Leased</p> <p>c. <input type="checkbox"/> Permanently ceased operation</p> <p>d. <input type="checkbox"/> Subsidiary of another</p> <p>e. <input type="checkbox"/> Commissioned Agent</p> <p>f. <input type="checkbox"/> Not in petroleum business</p> </div> <div style="width: 45%;"> <p>Skip to and complete items 22-25 and Part II</p> <p>Complete items 13 to 25, and Part II for that portion of 1997 in which the firm was active under your ownership and control</p> <p>Complete item 13, then skip to and complete items 22-25 and Part II for the portion of 1997 in which the firm was active under your ownership and control</p> <p>Complete items 13 to 25, and Part II for that portion of 1997 in which the firm was active under your ownership and control</p> <p>Skip to and complete items 22-25</p> </div> </div>		13. Effective Date of Status Change <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="padding: 2px;">Month</th> <th style="padding: 2px;">Day</th> <th style="padding: 2px;">Year</th> </tr> </thead> <tbody> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> </tbody> </table>		Month	Day	Year			
Month	Day	Year							
		14. Name of Company Sold to / Leased to / Merged into / Subsidiary of / Agent for:							
		15. Name of Contact Person							
		16. Contact's Telephone Number <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> - <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> </div>							
		17. Street							
		18. PO Box / RFD							
		19. City	20. State						
		21. Zip Code							
PREPARED BY: <i>Check appropriate box.</i> If preparer is different from contact person, complete lines 13 and 14.									
22. <input type="checkbox"/> Preparer same as contact person shown on label		23. Date							
24. <input type="checkbox"/> Preparer's Name		25. Preparer's Telephone number							
<small>Public reporting burden for this collection of information is estimated to average 3.2 hours per response, including the time of reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Energy Information Administration, Statistical Methods Group EI-73, 1000 Independence Ave. SW, Washington, DC 20585; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.</small>									

Name of Firm Reporting		DOE ID Number	Reference Year 1997	Page _____ of _____
PART II. TOTAL SALES DURING THE REFERENCE YEAR. (READ PAGES 2-5 OF INSTRUCTIONS CAREFULLY)				
Line No.	Type of Fuel and Use	States of Destination (Enter STANDARD ABBREVIATIONS)		
Sold directly to consumers for		Kerosene (Report in Actual Gallons)		
1	Residential Use (Non-Farm):			
2	Commercial Use:			
3	Industrial Use:			
4	Farm Use:			
5	All Other Uses (Include own company use):			
6	Sold to dealers, resellers, and refiners:			
7	Total Kerosene (Add Lines 1 thru 6)			
Sold directly to consumers for		Distillate Fuel Oil (Report in Actual Gallons)		
Residential Use (Non-Farm):				
8	No. 1			
9	No. 2			
Commercial Use (See Reference Guide):				
10	No. 1			
11	No. 2 Fuel Oil			
12	No. 2 Diesel \leq .05% Sulfur, Low			
13	No. 2 Diesel $>$.05% Sulfur, High			
14	No. 4			
Industrial Use (Manufacturing and Mining):				
15	No. 1			
16	No. 2 Fuel Oil			
17	No. 2 Diesel \leq .05% Sulfur, Low			
18	No. 2 Diesel $>$.05% Sulfur, High			
19	No. 4			
20	Oil Company Use (Drilling and Own Company Refining):			
21	Railroad Use:			
22	Vessel Bunkering (Shipping and Boating):			

Name of Firm Reporting		DOE ID Number	Reference Year 1997	Page _____ of _____
PART II. TOTAL SALES DURING THE REFERENCE YEAR. (READ PAGES 2-5 OF INSTRUCTIONS CAREFULLY)				
Line No.	Type of Fuel and Use	States of Destination (Enter STANDARD ABBREVIATION)		
Distillate Fuel Oil--Continued (Report in Actual Gallons)				
	Military Use:			
23	Diesel			
24	Other Distillate			
25	Electric Utility Use:			
	Farm Use:			
26	Diesel			
27	Other Distillate			
28	On-highway Diesel Use:			
	Off-highway Use:			
29	Construction			
30	Other (Specify e.g., Logging): _____			
31	All Other Uses (Specify): _____			
32	Sold to dealers, resellers, and refiners:			
33	Total Distillate (Add Lines 8 thru 32)			
Residual Fuel Oil - Include No.5 and No. 6 (Report in Actual Gallons)				
	Sold directly to consumers for			
34	Commercial Use (Nonmanufacturing):			
35	Industrial Use (Manufacturing and Mining):			
36	Oil Company Use (Drilling and Own Company Refining):			
37	Railroad Use (Include Volumes on line 41):			
38	Vessel Bunkering:			
39	Military Use:			
40	Electric Utility Use:			
41	All Other Uses (Specify): _____			
42	Sold to dealers, resellers, and refiners:			
43	Total Residual (Add Lines 34 thru 42)			

The Industry Reference You've Been Waiting For!

North American Industry Classification System United States, 1997

Replaces the U.S. Standard Industrial Classification (SIC) System (1987), the Standard Industrial Classification System of Canada (1980), and the Mexican Classification of Activities and Products (1994).

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- Fourth digit designates an industry group, such as grain and oil seed farming or fiber, yarn and thread mills.
- Fifth digit designates the NAICS industry such as wheat farming or broadwoven fabric mills.
- Optionally, each country may add additional detailed industries below the 5-digit level so long as the additional detail aggregates to a 5-digit level of NAICS.

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