

Fuel Oil and Kerosene Sales 1996

August 1997

MASTER

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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 1996* 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 1996* 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 Marketing 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 1996*.

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

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

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

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

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

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

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

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

Highlights

Sales of Fuel Oil and Kerosene in 1996

Distillate sales rose again in 1996, up 3.7 percent over 1995, propelled upward by an expanding economy. In contrast to 1995, residual fuel oil sales increased in 1996, the first gain since 1988. Residual fuel oil sales increased 7.7 percent over 1995. This shift in the trend of residual fuel sales was the consequence of extremely cold weather during the beginning of 1996 and competitive residual fuel prices toward the end of 1996.

Distillate Fuel Oil

Distillate sales went from 51.5 billion gallons in 1995 to 53.4 billion gallons in 1996 and experienced an increase in every category except commercial and military use. The critical factors affecting distillate sales in each of these categories were the economy, weather, and crude oil prices. Economic vitality had the most profound influence on distillate sales in the transportation sector.

The transportation sector, consisting of on-highway, vessel bunkering and railroad uses, continued to dominate distillate sales with 61.6 percent of total distillate sales. A strong economy, indicated by a 4.4 percent increase (in current dollars) in the Gross Domestic

Product (GDP), pushed distillate sales in the transportation sector up 5.0 percent in 1996. At 27.0 billion gallons, on-highway diesel sales increased 5.4 percent to 82.0 percent of distillate in the transportation sector and 50.5 percent of all distillate sales. On-highway sales went up because the demand for delivery of goods and services increased in 1996. Vessel bunkering and railroad use also both increased in 1996, rising 6.5 and .53 percent respectively. Sales of distillate to railroads increased slightly in 1996 to 3.4 billion gallons, up 18 million gallons. Due to respondent reporting errors in 1995 this increase is actually larger than it appears. Vessel bunkering increased as well to 2.5 billion gallons, an increase of 152 million gallons from 1995.

Despite a colder heating season, distillate sales to residential customers for home heating remained relatively unchanged from 1995. Residential use at 6.9 billion gallons was up only .7 percent in 1996. Approximately 12.9 percent of all distillate sales in 1996 were for residential use and 82.8 percent of those sales were in PAD District I. The principal reason for the consistency in sales was an increase in natural gas consumption stimulated by competitive pricing. While residential heating oil prices increased 10.7 percent in

Table HL1. Volume Distribution of Distillate and Residual Fuel Oils, 1995 and 1996

End Use	Distillate 1996		Distillate 1995		Residual 1996		Residual 1995	
	Volume (million gallons)	Percent Share	Volume (million gallons)	Percent Share	Volume (million gallons)	Percent Share	Volume (million gallons)	Percent Share
Residential	6,910	12.9	6,860	13.3	--	--	--	--
Commercial	3,604	6.8	3,631	7.1	928	7.0	923	7.5
Industrial	2,289	4.3	2,239	4.3	2,089	15.7	1978	16.1
Oil Company	731	1.4	687	1.3	167	1.3	211	1.7
Farm	3,591	6.7	3,476	6.8	--	--	--	--
Electric	658	1.2	597	1.2	4,305	32.5	3262	26.5
Railroad	3,447	6.5	3,429	6.7	--	--	--	--
Vessel Bunkering	2,491	4.7	2,339	4.5	5,701	43.0	5,886	47.8
On-Highway	26,959	50.5	25,576	49.7	--	--	--	--
Military	454	0.8	462	0.9	56	0.4	51	0.4
Off-Highway	2,246	4.2	2,173	4.2	--	--	--	--
Other	0	0.0	0	0.0	10	0.1	7	0.0
Total	53,380	100.0	51,469	100.0	13,256	100.0	12,318	100.0

Sources: Energy Information Administration, Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," 1995 and 1996.

1996, natural gas prices only increased 0.8 percent.¹ Heating oil prices remained high because the cold fall season in 1995 hindered the typical rise in stock levels. The high price of crude oil and persistent expectations that the price would drop helped maintain the low levels of distillate stock throughout the year.² Additionally, more efficient inventory management and a strategy of just in time inventorying also contributed to low stock levels. Diminishing residential distillate sales, however, were offset by a 6.9 percent increase in residential and commercial natural gas consumption.³ Residential natural gas should continue to curtail the heating oil share of the market as more existing homes convert to natural gas and the quantity of new gas home completions rises.

Commercial use distillate decreased .7 percent in 1996, which equates to a decrease of 27 million gallons. The largest decrease was in low sulfur diesel which decreased 111 million gallons or 9.3 percent in 1996. Decreased use of on-highway diesel by governments was the primary reason for this drop.

Distillate sales for industrial use increased 2.2 percent in 1996. In order to satisfy escalating demand, industrial use sales increased by 50 million gallons. A growing economy evidenced by an increase in manufacturing production and capacity utilization of 2.74 percent, contributed to the increase.⁴

Farm use of distillate at 3.6 billion gallons was up 3.3 percent in 1996. The principle reason for this increase was the total area planted (in principal crops) rising 8.3 percent.⁵ Some gain in fuel sales was due to an increase in the fuel requirements of those particular commodities planted and harvested. The area of corn and wheat planted increased 13.0 and 8.6 percent, respectively, and had the greatest impact on the increase in total area planted.⁶ In fact, the area planted for spring wheat was the most since 1936. The area planted for corn increased by 9 million acres and corn

is a fuel intensive commodity. The total area of corn harvested was 74 million acres and was the largest corn crop since 1985. The tremendous growth in the area planted for corn and wheat was offset moderately, however, by a 15.2 percent decrease in area planted for cotton.⁷

Off-Highway construction and other uses were up 3.4 percent in 1996 to 2.2 billion gallons, primarily because new private construction increased 4.3 percent.⁸ Any government use of fuel for construction is categorized under military or commercial end-use.

Oil company use was up 6.4 percent in 1996 due to an increase in drilling activities in the United States. The number of rotary rigs in operation increased by 7.8 percent in 1996, and the total footage drilled also climbed 22.5 percent.⁹ This growth resulted from the 26.3 percent increase in the price of crude oil in 1996 which motivated oil companies to increase their exploration and development expenditures.

Electric Utility sales increased 10.1 percent in 1996 to 658 million gallons, an increase of 60 million gallons. This increase was the result of a 3.3 percent increase in heating degree days and an increase in weather volatility over 1995.¹⁰ The severely cold weather during the initial few months of 1996 increased energy consumption and the demand for peak use diesel fired generation units. Historically, there is little demand for distillate fuel oil in warm or normal weather conditions.

Military distillate use dropped 1.6 percent in 1996 to 454 million gallons due to a decline in military activity and the expanded use of JP-8 fuel. JP-8 is a kerosene based jet fuel currently being used as a substitute for diesel in many military vehicles. By using this one standard fuel in all of its equipment, the military will vastly improve logistical efficiency, reliability, and mobility. Military distillate use should continue to dimin-

¹Monthly Energy Review (MER), June 1997, Table 1.7, p.13.

²Distillate Fuel Oil Assessment for Winter 1996-1997, Graig H. Cranston, EIA, p.7.

³Monthly Energy Review (MER), June 1997, Table 2.3, p.27.

⁴Economic Indicators, May 1997, Washington D.C. US Government Printing Office, p.17.

⁵Acreage planted figures come from the Annual Crop Summary, Agricultural Statistics Board, NASS, USDA, June 1996.

⁶Ibid.

⁷Ibid.

⁸Economic Indicators, May 1997, Washington D.C. US Government Printing Office, p.19.

⁹Monthly Energy Review (MER), August 1996, Table 5.1, p.82.

¹⁰Short-Term Energy Outlook, Third Quarter 1997, p.22.

ish as the military pursues this transition toward a single fuel force employing the more stable and reliable JP-8 fuel.

Residual Fuel Oil

In 1996, residual fuel oil sales in the United States increased for the first year since 1988. Residual fuel oil sales went from 12.3 billion gallons in 1995 to 13.3 billion gallons in 1996. This 7.7 percent increase was driven by a 31.9 percent increase in electric utility sales.

Vessel bunkering maintained its dominance by securing 43.0 percent of the residual fuel market, in spite of a decline in sales of 3.0 percent. PAD District V had the most substantial effect on this decrease with a loss of 14.4 percent in 1996. This decrease was due to a notable increase in exports to Asia where poor availability of residual fuel oil stimulated demand. While PAD District V witnessed a decrease in sales, more competitive prices spurred sales upwards slightly in PAD Districts I, II, and III. Throughout the majority of 1996, the U.S. Gulf maintained a favorable price advantage over Rotterdam compared to 1995 and this promoted the increase in sales. Overall, the decrease in sales of residual fuel oil was influenced by the unusually high demand for residual fuel in the utility market. Despite the decline in vessel bunkering sales, total residual fuel oil sales were propelled upwards by this increase in electric utility sales.

Electric utility sales accounted for 32.4 percent of all residual fuel oil sales, up from the 26.5 percent market share in 1995. Sales escalated by 1.0 billion gallons last year, rising from only 3.3 billion gallons in 1995 to 4.3 billion gallons in 1996. Three principle factors account for this dramatic shift upwards in sales. First, the harsh cold weather in the Northeast and Mississippi during the first quarter of 1996 elevated electric utility demand for residual fuel oil. When unusually cold weather struck Mississippi and froze gas pipes, some utilities had to increase their reliance on residual fuel oil. Then, Northeast Nuclear Energy was forced to shutdown its three Millstone plants in March of 1996 and their Connecticut Yankee plant in July because of safety violations. This substantial drop in nuclear power plants stirred demand for residual fuel oil. In Connecticut, residual fuel oil sales climbed 328 million gallons over 1995. Lastly, through November and December of 1996 natural gas prices rose 68 percent and competitive pricing of residual fuel oil encouraged electric utilities to use more residual fuel oil.¹¹

Industrial remained the third largest end use category for residual fuel oil sales of 2.1 billion gallons in 1996. Industrial use increased by 112 million gallons, a gradual increase of 5.7 percent. General increased demand for industrial goods had a direct effect on the increase. Like electric utility sales, this increase was also due in part to the low price of residual fuel oil compared to natural gas toward the end of 1996. Furthermore, as the year progressed and natural gas supplies decreased, companies with interruptible contracts were forced to switch to residual fuel oil.

Commercial use of residual fuel oil increased .57 percent in 1996 to 928 million gallons. Increased demand for heating in 1996 was the key reason for the increase. Although the number of apartment buildings and commercial facilities heated with residual fuel oil is declining, the cold weather increased overall demand.

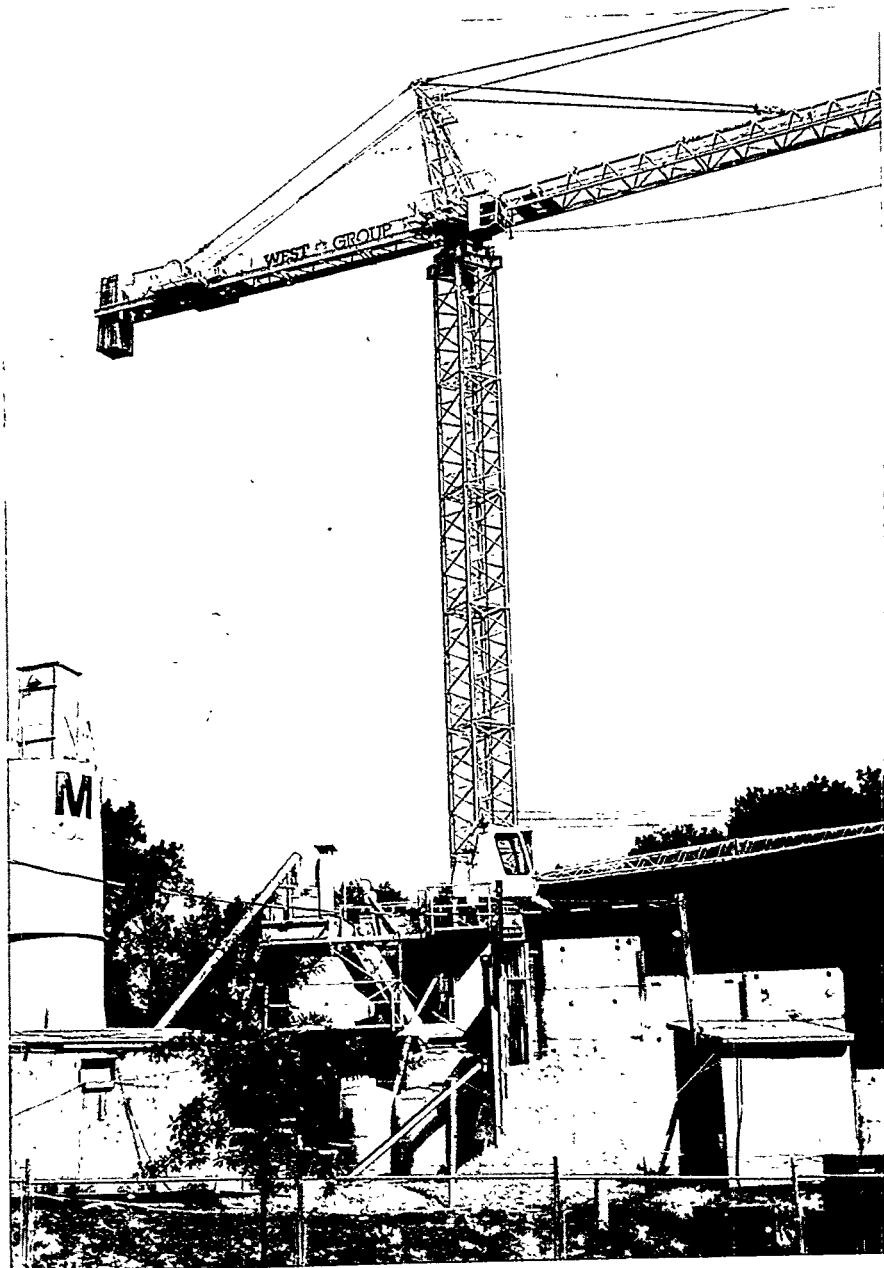
Oil company use of residual fuel continued its decline in 1996 by dropping 20.8 percent from 211 million to 167 million gallons. As refineries adopt new technologies which reduce the amount of residual fuel produced, oil companies will continue to use less residual fuel oil for operations. The unusually high demand for residual fuel oil by utilities also contributed to the decrease.

Military use of residual fuel oil increased 10.5 percent in 1996 to 56 million gallons, an increase of 5 million gallons. The greatest increases occurred in Texas and Hawaii as the military replenished residual fuel stock levels in those states.

Kerosene

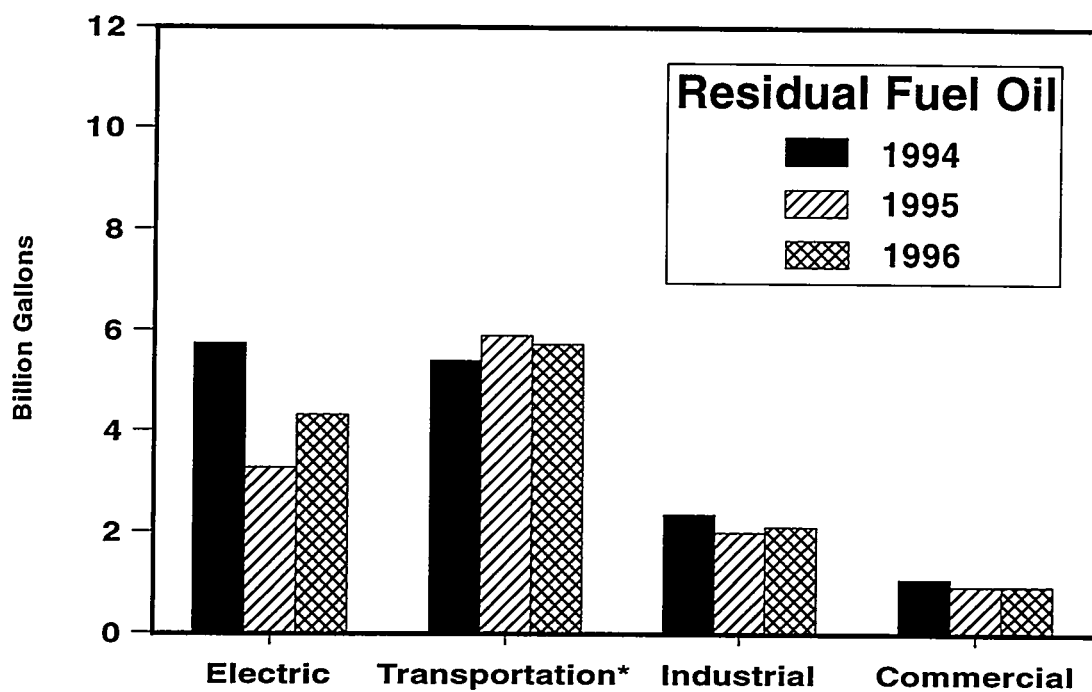
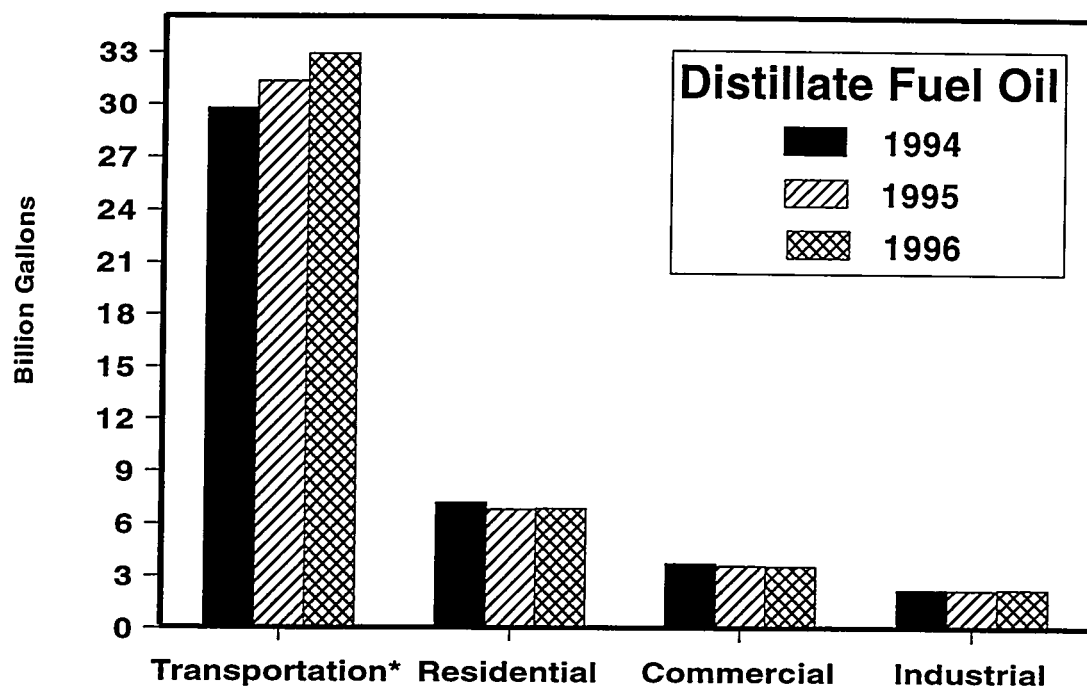
Total U.S. kerosene sales increased 14.6 percent in 1996. Increases were observed in the residential, industrial, and farm use sectors. Residences continued to use the majority of kerosene, with 69.3 percent of all kerosene sales. At 658 million gallons, residential use increased 19.5 percent in 1996, primarily due to weather conditions throughout PAD District I. PAD District I dominated the residential sector with 80.7 percent of all residential kerosene sales and experienced a 20.4 percent increase in 1996. The greatest impact on the increase in kerosene sales, however, was experienced by the farm use sector. Kerosene sales for farm use increased 30.6 percent in 1996.

¹¹ *Natural Gas Monthly*, July 1997, Table 4., p.12.



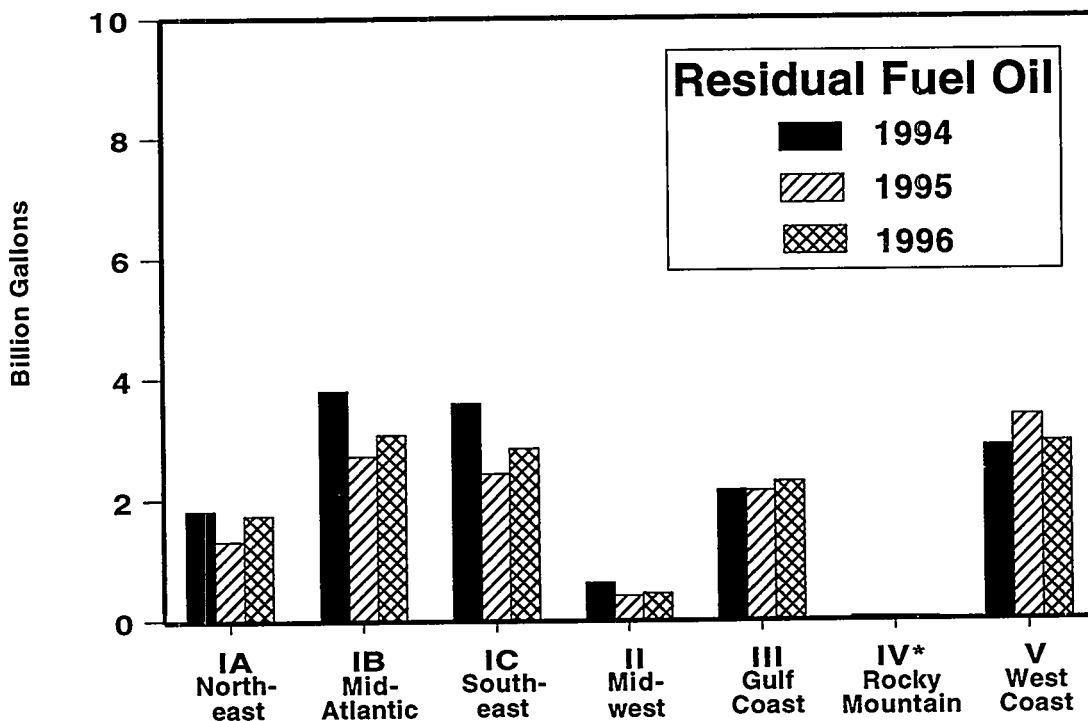
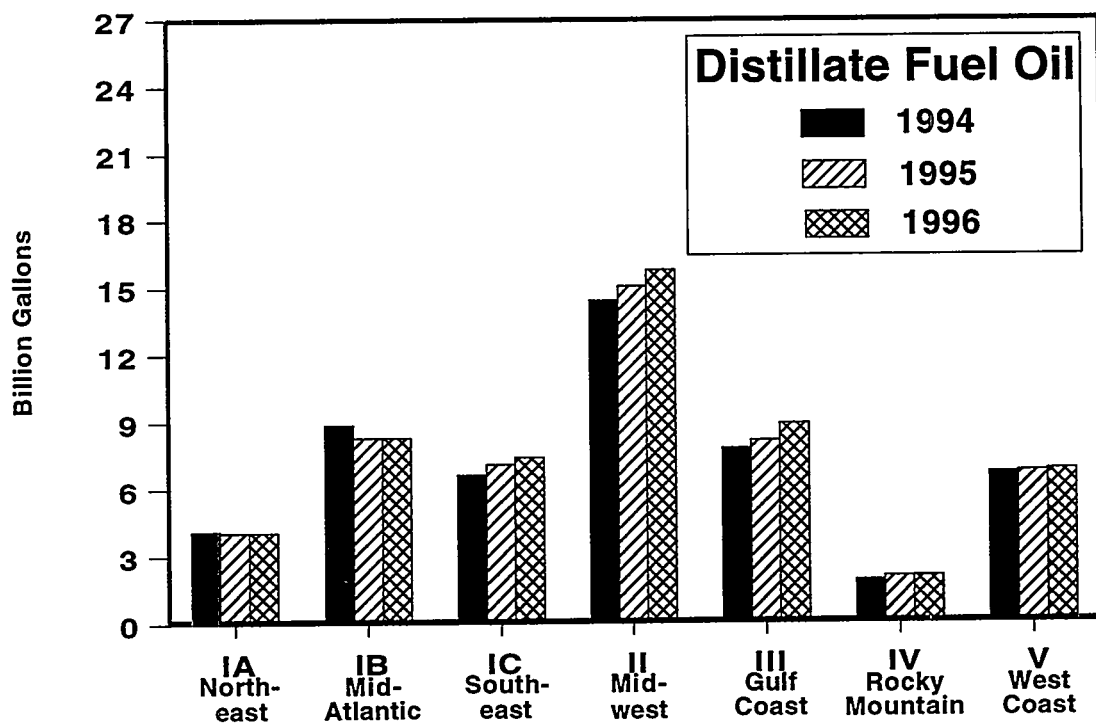
Distillate sales for construction and road building are classified as off-highway use.

Figure HL1. U.S. Sales of Distillate and Residual Fuel Oils by End Use, 1994-1996



*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," 1995 and 1996.

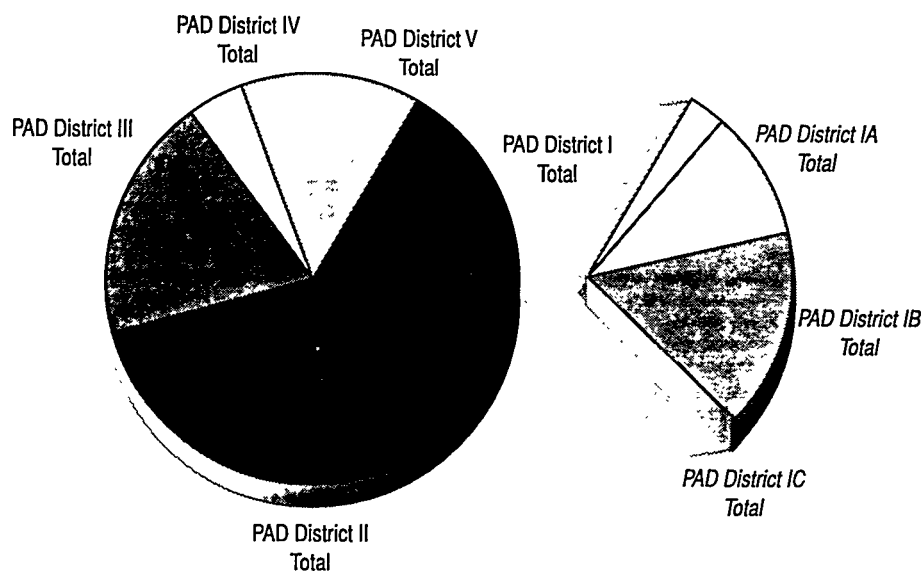
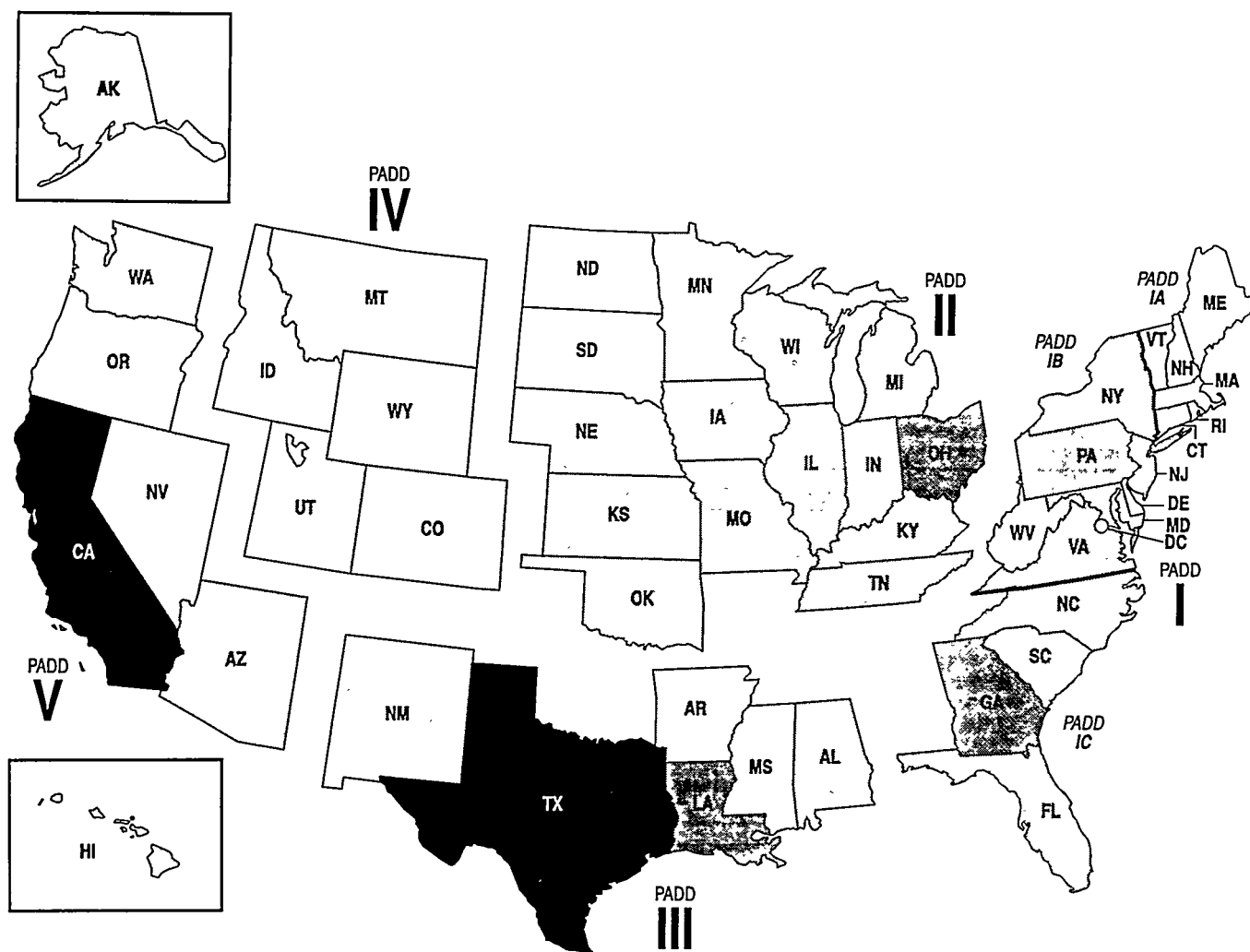
Figure HL2. Volume Distribution of Distillate and Residual Fuel Oils by PAD District, 1994-1996



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

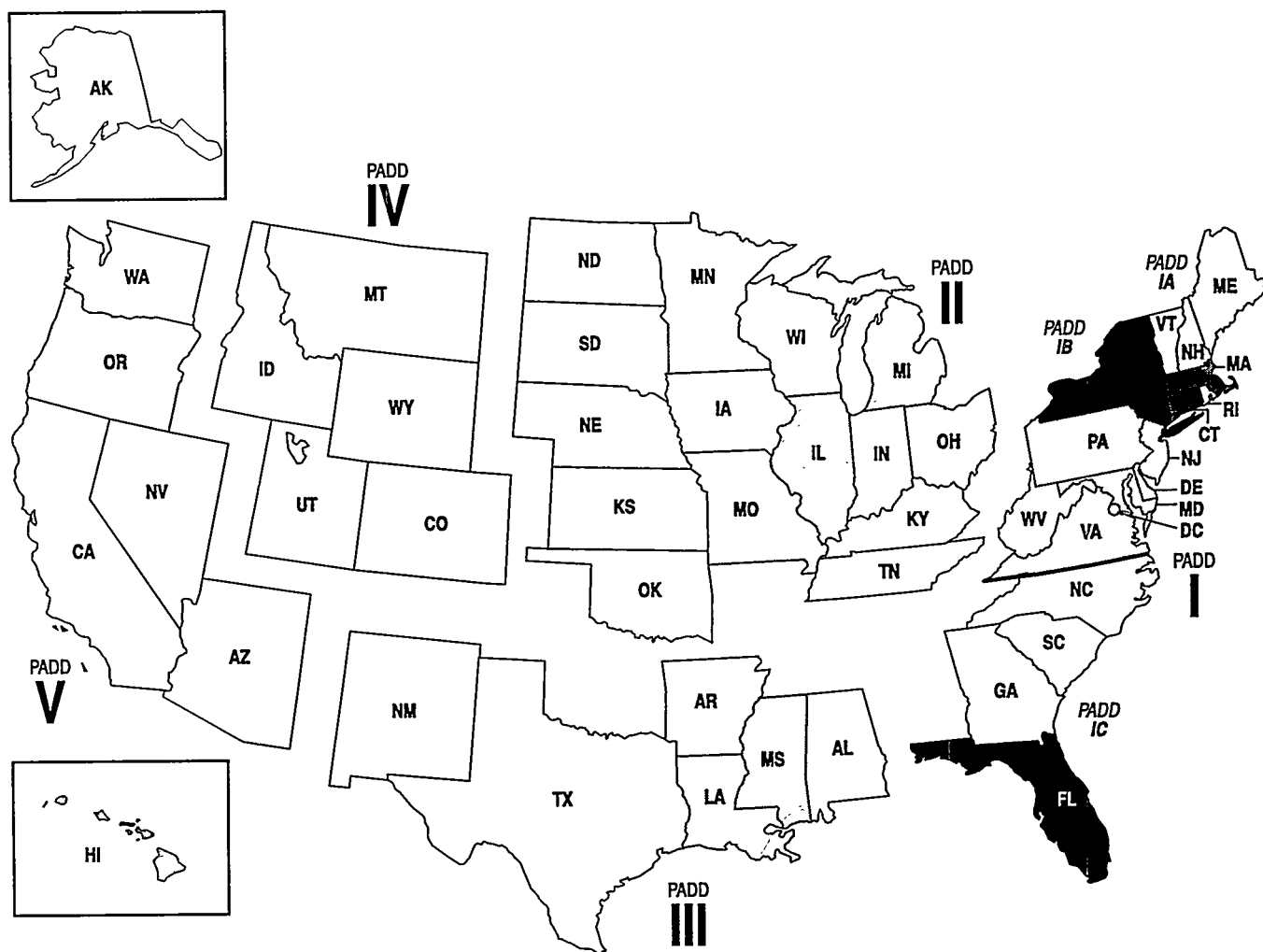
Sources: Energy Information Administration, Form EIA-821, "Fuel Oil and Kerosene Sales Report," 1995 and 1996.

Figure HL3. Distillate Sales for Transportation End-Use by PAD District and State, 1996



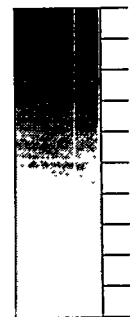
Sources: Energy Information Administration, Form EIA-821, "Fuel Oil and Kerosene Sales Report," 1996.

Figure HL4. Residual Fuel Oil Sales for Electric Utility End-Use by PAD District and State, 1996



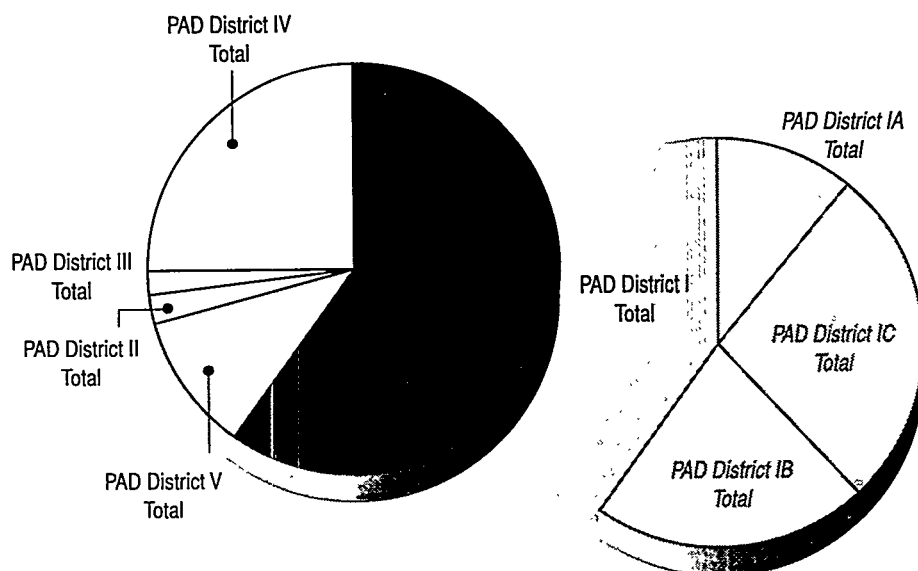
Shading Represents State Sales

1.5 Billion Gallons



0 to .000076
Billion Gallons

*Residual fuel oil sales for some states
are too small to appear in this graph.*



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

Table 1. Sales of Distillate Fuel Oil by End Use in the United States: 1992-1996
(Thousand Gallons)

End Use	Distillate Fuel Oil				
	1992	1993	1994	1995	1996
U.S. Total	47,261,552	48,290,076	50,423,596	51,469,264	53,379,033
Residential	7,291,444	7,287,196	7,232,733	6,859,786	6,910,018
Commercial	3,771,021	3,689,509	3,774,929	3,630,856	3,603,620
Industrial	2,312,146	2,130,358	2,269,007	2,238,873	2,288,689
Oil Company	664,408	709,404	675,228	686,750	730,676
Farm	3,499,518	3,410,827	3,270,227	3,476,472	3,591,383
Electric Utility	540,683	550,752	663,814	597,461	657,881
Railroad	3,172,724	3,000,104	3,141,324	3,428,829	3,446,939
Vessel Bunkering	2,218,592	2,154,757	2,189,346	2,339,010	2,490,793
On-Highway Diesel	21,374,872	22,758,842	24,442,609	25,576,433	26,958,668
Military	652,507	491,320	610,474	461,740	454,443
Off-Highway Diesel	1,757,788	2,104,299	2,153,153	2,173,054	2,245,922
All Other	5,848	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 1992-1996.

• 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: 1992-1996
(Thousand Gallons)

End Use	Residual Fuel Oil				
	1992	1993	1994	1995	1996
U.S. Total	16,199,042	15,064,305	14,825,378	12,318,128	13,256,998
Commercial	1,176,049	1,025,895	1,061,450	922,572	927,834
Industrial	2,126,857	2,378,191	2,337,188	1,977,567	2,089,436
Oil Company	271,070	266,518	242,754	211,450	167,425
Electric Utility	5,961,441	6,035,413	5,729,485	3,262,492	4,304,492
Vessel Bunkering	6,563,220	5,281,869	5,386,407	5,886,409	5,701,233
Military	91,791	72,540	61,946	50,902	56,225
All Other	8,613	3,878	6,111	6,735	10,354

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 1992-1996.

Table 3. Sales of Kerosene by End Use in the United States: 1992-1996
(Thousand Gallons)

End Use	Kerosene				
	1992	1993	1994	1995	1996
U.S. Total	636,426	760,788	750,330	828,450	948,990
Residential	481,511	560,103	480,916	550,336	657,636
Commercial	82,398	103,996	144,142	163,716	155,792
Industrial	46,099	58,190	86,629	86,902	102,322
Farm	20,036	27,695	27,686	19,919	26,017
All Other	6,382	10,805	10,957	7,576	7,223

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, 1992-1996, (DOE/EIA-0340(92)/1 - (96)/1).

Table 4. Sales of Distillate Fuel Oil by End Use, 1995 and 1996

(Thousand Gallons)

Destination	Residential		Commercial		Industrial	
	1995	1996	1995	1996	1995	1996
U.S. Total	6,859,786	6,910,018	3,630,856	3,603,620	2,238,873	2,288,689
PAD District I Total	5,675,138	5,721,287	2,421,064	2,430,182	759,001	760,880
Subdistrict IA Total	2,228,279	2,156,102	633,406	606,041	103,547	97,688
Connecticut	553,290	573,873	133,258	128,589	21,671	22,685
Maine	336,839	328,133	100,905	105,342	27,799	27,455
Massachusetts	886,113	798,127	286,118	245,020	31,043	24,534
New Hampshire	196,452	201,806	49,849	57,387	9,313	6,720
Rhode Island	153,064	151,241	32,722	35,127	7,726	9,475
Vermont	102,521	102,922	30,554	34,575	5,994	6,820
Subdistrict IB Total	2,971,469	3,056,516	1,312,577	1,357,941	238,616	236,870
Delaware	49,155	47,433	12,433	16,638	6,990	8,352
District of Columbia	12,558	13,134	36,647	41,774	188	457
Maryland	217,407	252,604	136,795	142,124	26,964	37,714
New Jersey	531,291	528,956	153,122	214,902	52,217	44,142
New York	1,264,185	1,314,434	693,853	675,093	56,235	49,221
Pennsylvania	896,873	899,955	279,727	267,409	96,023	96,984
Subdistrict IC Total	475,390	508,669	475,081	466,200	416,838	426,322
Florida	10,061	9,263	130,013	92,167	64,619	47,355
Georgia	7,244	6,557	64,164	50,243	42,539	61,682
North Carolina	177,670	185,044	103,565	122,749	79,258	88,908
South Carolina	30,549	30,944	44,260	41,888	27,022	27,694
Virginia	227,959	250,809	117,323	147,697	74,907	79,727
West Virginia	21,908	26,053	15,757	11,456	128,494	120,956
PAD District II Total	897,664	903,197	576,995	576,601	639,882	662,986
Illinois	33,607	32,425	82,596	79,018	57,909	53,891
Indiana	65,186	62,906	48,748	41,931	65,886	71,424
Iowa	34,481	33,645	18,330	15,483	15,857	21,014
Kansas	631	755	24,837	24,085	9,564	10,816
Kentucky	31,914	28,792	49,179	51,855	190,269	187,129
Michigan	168,476	167,724	72,333	76,763	40,418	44,156
Minnesota	136,254	150,007	38,052	44,055	43,585	39,696
Missouri	19,273	14,364	52,563	56,897	26,248	34,483
Nebraska	3,888	4,917	7,138	10,015	3,941	4,199
North Dakota	31,656	35,548	6,534	9,062	10,442	6,819
Ohio	176,580	164,172	75,471	58,032	81,341	74,546
Oklahoma	480	1,012	11,923	16,643	5,773	9,080
South Dakota	22,137	27,085	13,290	10,895	8,224	9,850
Tennessee	11,489	11,676	32,617	39,366	31,782	40,766
Wisconsin	161,614	168,168	43,384	42,502	48,642	55,119
PAD District III Total	1,037	656	195,721	184,027	289,688	290,841
Alabama	461	437	28,439	24,166	62,143	62,302
Arkansas	90	39	13,296	12,637	15,079	11,304
Louisiana	62	28	11,366	5,842	17,883	24,524
Mississippi	22	27	14,039	17,268	24,803	25,994
New Mexico	127	122	10,691	7,639	25,375	30,167
Texas	275	3	117,890	116,474	144,405	136,549
PAD District IV Total	35,858	37,495	81,436	89,290	137,194	134,538
Colorado	1,540	1,941	31,030	31,834	17,342	14,665
Idaho	19,431	16,978	17,305	19,758	28,126	23,027
Montana	9,608	14,144	4,501	9,941	26,415	18,679
Utah	3,187	3,238	16,881	16,272	18,995	20,511
Wyoming	2,092	1,194	11,720	11,485	46,316	57,657
PAD District V Total	250,088	247,383	355,640	323,520	413,108	439,445
Alaska	89,404	83,778	45,694	51,333	49,480	61,990
Arizona	255	419	15,647	25,715	89,912	110,277
California	7,735	6,423	139,723	111,251	79,050	57,337
Hawaii	79	10	15,162	9,723	3,234	3,834
Nevada	7,772	8,621	36,723	42,911	133,688	146,846
Oregon	56,363	52,404	46,877	39,596	27,564	35,516
Washington	88,480	95,728	55,812	42,990	30,181	23,645

See footnotes at end of table.

Table 4. Sales of Distillate Fuel Oil by End Use, 1995 and 1996 (Continued)

(Thousand Gallons)

Destination	Oil Company		Farm		Electric Utility	
	1995	1996	1995	1996	1995	1996
U.S. Total	686,750	730,676	3,476,472	3,591,383	597,461	657,881
PAD District I Total	10,363	9,932	397,145	409,674	257,997	272,879
Subdistrict IA Total	1,423	558	17,465	16,587	21,866	20,018
Connecticut	389	235	5,469	2,659	2,858	1,663
Maine	87	—	3,810	3,797	1,051	845
Massachusetts	480	229	2,241	4,148	11,366	12,099
New Hampshire	—	—	985	926	1,204	1,609
Rhode Island	444	91	54	100	5,054	3,741
Vermont	22	2	4,906	4,957	333	62
Subdistrict IB Total	3,623	4,445	104,672	108,154	112,865	106,046
Delaware	305	769	3,209	5,647	3,118	8,016
District of Columbia	—	—	—	—	23,567	16,587
Maryland	616	134	26,787	26,691	27,029	23,278
New Jersey	931	1,522	7,108	7,300	3,895	4,974
New York	1,255	1,017	34,203	33,839	9,203	14,299
Pennsylvania	515	1,003	33,367	34,676	46,054	38,891
Subdistrict IC Total	5,317	4,930	275,007	284,933	123,266	146,815
Florida	1,155	560	68,083	76,350	53,446	67,739
Georgia	1,366	1,280	101,034	102,239	16,270	26,214
North Carolina	140	115	44,385	34,423	22,352	22,454
South Carolina	1	416	16,690	24,414	12,743	8,364
Virginia	1,983	1,226	40,687	43,275	7,231	9,831
West Virginia	672	1,333	4,129	4,232	11,225	12,213
PAD District II Total	47,290	49,821	1,725,632	1,696,468	135,966	158,398
Illinois	2,444	1,364	221,678	207,442	25,667	29,294
Indiana	2,211	2,843	110,926	94,802	16,839	17,663
Iowa	6	10	181,808	208,617	2,183	2,357
Kansas	5,012	4,967	166,519	165,362	2,647	6,028
Kentucky	585	306	39,165	32,554	9,035	8,708
Michigan	2,203	2,017	60,078	64,427	23,238	24,541
Minnesota	68	—	173,945	182,324	4,906	9,470
Missouri	55	40	60,615	59,398	6,293	5,102
Nebraska	774	628	186,677	177,287	1,594	1,451
North Dakota	6,208	8,449	108,785	105,271	3,945	5,293
Ohio	2,172	1,159	101,864	94,195	21,569	21,594
Oklahoma	25,412	27,858	73,958	77,087	885	389
South Dakota	29	79	80,066	80,785	278	1,193
Tennessee	108	100	65,524	58,642	9,825	17,297
Wisconsin	2	2	94,022	88,273	7,062	8,017
PAD District III Total	547,164	570,782	742,083	842,036	45,745	62,717
Alabama	9,429	9,902	50,169	37,780	8,180	12,298
Arkansas	1,349	1,672	123,348	107,664	9,954	5,412
Louisiana	329,392	339,031	70,393	62,143	8,578	18,006
Mississippi	2,458	1,329	105,755	95,195	1,539	4,265
New Mexico	23,829	19,861	17,064	17,685	1,192	1,500
Texas	180,706	198,986	375,353	521,569	16,302	21,236
PAD District IV Total	24,161	25,986	188,770	204,954	5,122	6,066
Colorado	9,075	7,742	55,982	68,033	661	858
Idaho	—	2	48,785	46,361	350	333
Montana	1,201	1,418	58,017	64,996	38	63
Utah	3,513	4,268	14,228	14,700	1,691	2,149
Wyoming	10,373	12,557	11,759	10,864	2,383	2,663
PAD District V Total	57,772	74,155	422,842	438,252	152,631	157,822
Alaska	46,571	66,990	158	2	35,713	37,660
Arizona	267	100	28,950	27,380	2,370	2,497
California	9,717	5,093	256,297	289,264	4,289	4,107
Hawaii	997	664	6,440	8,462	108,713	108,863
Nevada	74	505	4,397	6,472	501	1,792
Oregon	5	51	60,973	39,673	825	825
Washington	141	752	65,627	66,999	220	2,078

See footnotes at end of table.

Table 4. Sales of Distillate Fuel Oil by End Use, 1995 and 1996 (Continued)

(Thousand Gallons)

Destination	Railroad		Vessel Bunkering		On-Highway	
	1995	1996	1995	1996	1995	1996
U.S. Total	3,428,829	3,446,939	2,339,010	2,490,793	25,576,433	26,958,668
PAD District I Total	561,677	579,618	541,806	523,630	8,099,324	8,372,128
Subdistrict IA Total	29,655	25,354	80,833	73,340	837,751	858,402
Connecticut	6,788	6,338	3,358	2,521	199,252	^E 208,249
Maine	6,792	5,852	19,632	12,726	129,755	135,339
Massachusetts	15,170	12,372	47,798	47,198	315,292	313,984
New Hampshire	305	152	332	752	63,113	60,949
Rhode Island	19	97	9,253	9,669	44,142	44,378
Vermont	581	542	461	475	86,197	95,503
Subdistrict IB Total	195,481	146,456	159,573	140,785	3,007,852	3,063,474
Delaware	463	423	1,353	6,507	62,912	59,290
District of Columbia	5,751	6,283	13	2	21,205	20,949
Maryland	28,245	28,932	20,852	20,645	323,559	355,412
New Jersey	78,277	65,054	108,512	82,680	488,531	532,936
New York	11,578	7,180	11,865	14,157	915,846	924,782
Pennsylvania	71,167	38,584	16,978	16,793	1,195,799	1,170,105
Subdistrict IC Total	336,541	407,808	301,400	309,504	4,253,721	4,450,252
Florida	94,200	106,030	167,123	169,329	1,003,655	^E 962,504
Georgia	71,536	78,361	15,348	10,605	1,107,982	1,345,755
North Carolina	75,483	74,266	18,142	19,715	774,747	794,837
South Carolina	7,187	11,397	4,078	11,093	460,194	458,312
Virginia	73,546	131,296	31,318	26,610	688,044	757,666
West Virginia	14,591	6,458	65,391	72,152	219,099	131,178
PAD District II Total	1,427,588	1,440,730	415,963	486,978	8,572,145	9,125,173
Illinois	177,790	204,872	49,141	47,864	^E 845,546	884,696
Indiana	141,093	130,281	15,369	17,278	976,069	1,036,200
Iowa	58,777	67,532	6,358	7,153	409,958	458,660
Kansas	215,698	124,233	—	—	343,175	352,872
Kentucky	113,285	106,426	146,352	149,299	581,148	587,549
Michigan	60,488	44,511	3,672	4,850	735,953	772,262
Minnesota	111,512	73,042	5,162	4,933	453,926	482,131
Missouri	20,728	23,245	86,383	166,736	737,909	767,383
Nebraska	108,815	169,069	—	50	312,127	336,764
North Dakota	44,827	47,410	—	—	131,234	135,043
Ohio	127,304	137,926	7,553	8,619	1,100,569	1,275,402
Oklahoma	97,374	155,215	512	150	496,860	541,337
South Dakota	4,662	1,996	—	—	135,905	141,728
Tennessee	92,764	98,703	92,313	77,901	728,024	754,982
Wisconsin	52,470	56,267	3,148	2,146	583,742	598,164
PAD District III Total	666,829	653,208	950,382	1,115,468	4,089,230	4,522,044
Alabama	52,669	52,942	62,981	65,703	691,273	646,567
Arkansas	62,499	67,559	3,107	3,334	488,499	495,380
Louisiana	22,647	28,011	564,367	717,578	481,346	508,414
Mississippi	28,351	24,897	25,381	27,191	374,214	400,100
New Mexico	18,263	22,442	—	—	107,055	314,590
Texas	482,400	457,357	294,546	301,661	1,946,843	2,156,993
PAD District IV Total	341,923	346,232	55	260	1,117,000	1,094,512
Colorado	104,913	100,324	—	—	276,585	273,207
Idaho	29,506	29,101	33	241	167,819	187,828
Montana	79,246	71,530	4	3	158,451	140,625
Utah	31,626	40,899	18	16	258,135	255,192
Wyoming	96,633	104,379	—	—	256,010	237,660
PAD District V Total	430,811	427,151	430,804	364,457	3,698,734	3,844,811
Alaska	4,438	4,495	147,529	143,756	109,740	34,918
Arizona	4,615	3,745	20	17	483,186	543,643
California	236,401	252,463	104,067	100,226	2,089,687	2,115,704
Hawaii	—	—	82,814	23,722	27,080	40,447
Nevada	15,847	8,284	—	—	^E 172,332	^E 244,609
Oregon	92,627	83,034	22,019	23,627	^E 353,384	386,239
Washington	76,883	75,129	74,355	73,109	463,325	479,251

See footnotes at end of table.

Table 4. Sales of Distillate Fuel Oil by End Use, 1995 and 1996 (Continued)

(Thousand Gallons)

Destination	Military		Off-Highway		All Other		Total	
	1995	1996	1995	1996	1995	1996	1995	1996
U.S. Total	461,740	454,443	2,173,054	2,245,922	—	—	51,469,264	53,379,033
PAD District I Total	98,681	81,726	609,920	624,949	—	—	19,432,116	19,786,887
Subdistrict IA Total	19,724	11,281	70,646	75,466	—	—	4,044,594	3,940,837
Connecticut	660	3,945	10,101	9,660	—	—	937,093	960,417
Maine	2,725	3,599	21,355	26,799	—	—	650,750	649,888
Massachusetts	9,524	1,459	22,667	24,077	—	—	1,627,812	1,483,248
New Hampshire	1,291	54	8,825	9,450	—	—	331,669	339,803
Rhode Island	5,253	1,933	4,148	3,092	—	—	261,880	258,943
Vermont	270	291	3,550	2,389	—	—	235,390	248,538
Subdistrict IB Total	25,405	37,931	163,188	173,025	—	—	8,295,323	8,431,642
Delaware	1,200	1,355	4,471	7,117	—	—	145,608	161,547
District of Columbia	1,050	2,048	503	326	—	—	101,482	101,561
Maryland	13,521	18,370	22,366	24,887	—	—	844,141	930,794
New Jersey	814	1,972	27,829	30,784	—	—	1,452,526	1,515,222
New York	2,112	2,401	43,930	48,629	—	—	3,044,266	3,085,052
Pennsylvania	6,709	11,785	64,088	61,282	—	—	2,707,300	2,637,466
Subdistrict IC Total	53,551	32,514	376,086	376,459	—	—	7,092,200	7,414,407
Florida	12,034	7,412	121,943	121,285	—	—	1,726,331	1,659,994
Georgia	10,834	3,037	75,427	73,161	—	—	1,513,743	1,759,135
North Carolina	8,512	3,946	81,136	66,580	—	—	1,385,389	1,413,037
South Carolina	1,250	1,981	40,370	39,822	—	—	644,343	656,326
Virginia	20,517	15,562	44,114	65,571	—	—	1,327,628	1,529,269
West Virginia	405	576	13,096	10,040	—	—	494,766	396,646
PAD District II Total	16,026	22,269	599,047	649,150	—	—	15,054,198	15,771,771
Illinois	424	1,428	64,471	71,593	—	—	1,561,274	1,613,887
Indiana	652	1,893	31,444	33,958	—	—	1,474,424	1,511,180
Iowa	199	228	51,230	41,918	—	—	779,188	856,619
Kansas	1,062	943	31,689	28,577	—	—	800,834	718,638
Kentucky	2,161	1,408	40,256	45,018	—	—	1,203,350	1,199,043
Michigan	352	1,627	49,973	58,458	—	—	1,217,182	1,261,334
Minnesota	259	683	48,768	60,955	—	—	1,016,437	1,047,298
Missouri	2,702	2,802	46,366	44,342	—	—	1,059,136	1,174,791
Nebraska	396	474	18,286	18,010	—	—	643,636	722,864
North Dakota	1,230	1,874	8,262	6,030	—	—	353,124	360,800
Ohio	858	771	73,489	73,893	—	—	1,768,769	1,910,309
Oklahoma	1,522	1,794	21,746	33,248	—	—	736,444	863,812
South Dakota	888	1,711	8,931	8,587	—	—	274,409	283,909
Tennessee	1,215	1,403	65,221	62,740	—	—	1,130,882	1,163,576
Wisconsin	2,108	3,230	38,914	61,824	—	—	1,035,109	1,083,712
PAD District III Total	191,386	186,951	432,062	472,755	—	—	8,151,328	8,901,482
Alabama	6,623	3,090	72,449	111,108	—	—	1,044,816	1,026,297
Arkansas	984	1,680	38,706	26,843	—	—	756,912	733,524
Louisiana	31,333	40,567	83,508	118,717	—	—	1,620,875	1,862,860
Mississippi	5,964	4,473	38,375	45,175	—	—	620,903	645,913
New Mexico	1,479	2,174	17,958	20,246	—	—	223,032	436,426
Texas	145,004	134,968	181,065	150,666	—	—	3,884,790	4,196,462
PAD District IV Total	1,989	4,444	116,996	131,634	—	—	2,050,503	2,075,412
Colorado	1,365	855	39,006	42,468	—	—	537,499	541,926
Idaho	76	517	23,105	24,896	—	—	334,535	349,041
Montana	331	207	15,198	26,568	—	—	353,010	348,174
Utah	201	2,846	24,326	19,652	—	—	372,800	379,742
Wyoming	14	20	15,360	18,051	—	—	452,660	456,529
PAD District V Total	153,659	159,052	415,029	367,433	—	—	6,781,119	6,843,480
Alaska	5,619	5,488	40,669	33,261	—	—	575,014	523,670
Arizona	996	1,078	39,407	38,988	—	—	665,626	753,859
California	128,743	94,422	170,093	164,053	—	—	3,225,802	3,200,343
Hawaii	8,583	19,617	13,545	7,699	—	—	266,648	223,041
Nevada	1,155	1,468	14,288	18,257	—	—	386,778	479,765
Oregon	1,210	2,353	68,502	35,739	—	—	730,347	699,057
Washington	7,354	34,626	68,525	69,437	—	—	930,904	963,745

^E Estimated data. Florida's 1996 estimate is based on seven months of data. Nevada's 1996 estimate is based on eight months of data. Illinois' and Nevada's 1995 data are based on eleven months of data. Oregon's 1995 and Connecticut's 1996 data are a Federal Highway Administration estimate.

Dashes (-) = No data reported.

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

Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 1995 and 1996.

• 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, 1995 and 1996

(Thousand Gallons)

Destination	Commercial		Industrial		Oil Company		Electric Utility	
	1995	1996	1995	1996	1995	1996	1995	1996
U.S. Total	922,572	927,834	1,977,567	2,089,436	211,450	167,425	3,262,492	4,304,492
PAD District I Total	896,305	892,897	1,440,632	1,595,527	101,087	101,783	2,757,058	3,657,186
Subdistrict IA Total	200,493	194,722	457,776	503,004	207	822	636,040	940,989
Connecticut	18,333	19,327	30,061	40,733	207	243	91,312	419,126
Maine	15,139	21,593	302,153	328,008	-	-	57,674	60,487
Massachusetts	125,824	103,341	59,636	71,286	-	580	391,725	407,212
New Hampshire	17,864	19,010	44,753	40,680	-	-	93,992	54,164
Rhode Island	20,441	28,371	15,260	13,378	-	-	1,338	-
Vermont	2,892	3,081	5,912	8,919	-	-	-	-
Subdistrict IB Total	672,123	671,825	271,859	334,383	100,249	100,576	963,580	1,166,608
Delaware	5,388	9,410	28,800	39,056	35,541	23,018	76,774	68,711
District of Columbia	5,333	4,074	6	10	-	-	-	-
Maryland	4,881	4,572	29,235	57,229	630	653	84,940	76,380
New Jersey	50,735	54,474	75,461	68,261	2,463	2,341	83,618	143,806
New York	555,716	543,869	80,419	103,534	1,147	893	584,682	718,952
Pennsylvania	50,071	55,425	57,938	66,294	60,468	73,672	133,566	158,759
Subdistrict IC Total	23,689	26,350	710,998	758,140	631	384	1,157,438	1,549,590
Florida	5,649	4,198	201,259	158,621	60	78	1,126,980	1,502,436
Georgia	471	449	106,539	146,479	-	-	1,637	4,113
North Carolina	7,592	9,340	236,862	266,980	-	-	-	-
South Carolina	1,566	1,592	86,324	95,334	168	144	-	-
Virginia	8,412	10,770	71,957	75,935	402	162	28,821	43,041
West Virginia	-	-	8,057	14,792	-	-	-	-
PAD District II Total	14,540	22,117	202,623	255,397	64,084	28,733	86,734	97,019
Illinois	1,841	8,061	4,605	21,195	10,255	3,979	41,773	45,194
Indiana	1,301	577	34,947	43,439	29,284	-	3,574	-
Iowa	-	34	3,769	3,963	-	-	-	-
Kansas	483	76	752	5,637	-	-	-	-
Kentucky	-	7	3,540	6,647	4,709	3,681	-	-
Michigan	197	194	15,472	15,022	956	2,610	33,394	39,797
Minnesota	4,570	5,881	13,334	18,387	8,623	8,959	-	3,417
Missouri	42	240	13,085	13,120	-	-	6,818	8,004
Nebraska	25	-	4,925	7,114	-	-	-	-
North Dakota	775	247	2,593	5,504	3,349	-	-	5
Ohio	186	73	52,703	63,305	3,114	4,726	1,175	602
Oklahoma	11	-	13,490	10,994	-	-	-	-
South Dakota	100	-	460	1,700	-	-	-	-
Tennessee	582	1,178	14,001	7,566	178	113	-	-
Wisconsin	4,429	5,550	24,947	31,801	3,617	4,665	-	-
PAD District III Total	108	59	155,920	168,522	192	-	463	79,902
Alabama	108	24	20,653	29,974	-	-	-	-
Arkansas	-	9	8,362	4,915	-	-	-	4,849
Louisiana	-	26	15,659	31,670	-	-	435	5,675
Mississippi	-	-	3,303	4,778	-	-	27	69,336
New Mexico	-	-	7,323	8,239	-	-	-	-
Texas	-	-	100,619	88,946	192	-	-	43
PAD District IV Total	848	865	10,055	3,659	11,779	7,488	311	-
Colorado	-	-	7	168	-	-	-	-
Idaho	178	179	93	96	-	-	245	-
Montana	135	106	841	99	8,707	7,488	-	-
Utah	523	574	8,434	3,087	3,073	-	-	-
Wyoming	12	6	680	209	-	-	66	-
PAD District V Total	10,770	11,896	168,338	66,332	34,309	29,421	417,927	470,384
Alaska	-	-	15,377	16,456	-	-	-	-
Arizona	-	204	2,782	3,382	42	-	-	-
California	164	520	59,985	11,478	36	1,427	-	-
Hawaii	2,554	535	7,354	10,858	32,992	27,256	417,822	470,307
Nevada	-	-	44,324	5,368	40	114	-	-
Oregon	3,554	3,511	13,303	5,680	-	-	105	77
Washington	4,499	7,125	25,213	13,109	1,199	624	-	-

See footnotes at end of table.

Table 5. Sales of Residual Fuel Oil by End Use, 1995 and 1996 (Continued)

(Thousand Gallons)

Destination	Vessel Bunkering		Military		All Other		Total	
	1995	1996	1995	1996	1995	1996	1995	1996
U.S. Total	5,886,409	5,701,233	50,902	56,225	6,735	10,354	12,318,128	13,256,998
PAD District I Total	1,189,352	1,336,126	39,976	39,403	4,578	7,653	6,428,987	7,630,574
Subdistrict IA Total	9,750	84,532	7,316	11,012	1,139	348	1,312,720	1,735,428
Connecticut	-	174	470	1,352	679	-	141,062	480,955
Maine	3,768	2,019	4,589	6,556	328	348	383,650	419,010
Massachusetts	5,941	82,041	2,226	3,104	132	-	585,484	667,562
New Hampshire	-	209	-	-	-	-	156,609	114,063
Rhode Island	41	91	31	-	-	-	37,110	41,840
Vermont	-	-	-	-	-	-	8,804	11,999
Subdistrict IB Total	681,807	774,069	19,128	13,767	6	-	2,708,752	3,061,228
Delaware	40,462	84,114	1,769	792	6	-	188,740	225,102
District of Columbia	-	-	-	-	-	-	5,339	4,084
Maryland	28,594	25,512	9,579	6,611	-	-	157,859	170,957
New Jersey	327,291	251,288	2,692	4,213	-	-	542,260	524,381
New York	91,781	273,006	3,245	874	-	-	1,316,990	1,641,127
Pennsylvania	193,679	140,149	1,842	1,278	-	-	497,564	495,577
Subdistrict IC Total	497,795	477,525	13,532	14,624	3,434	7,305	2,407,516	2,833,917
Florida	343,562	343,976	2,259	1,552	2,854	7,253	1,682,623	2,018,114
Georgia	56,717	52,604	-	-	-	-	165,365	203,644
North Carolina	5,960	7,437	6,297	6,517	63	52	256,772	290,327
South Carolina	16,264	25,272	1,447	2,868	36	-	105,805	125,209
Virginia	75,292	48,065	3,529	3,687	481	-	188,893	181,661
West Virginia	-	171	-	-	-	-	8,057	14,963
PAD District II Total	18,768	23,991	310	646	169	-	387,227	427,903
Illinois	1,143	1,263	310	21	35	-	59,961	79,713
Indiana	9,626	12,447	-	-	-	-	78,731	56,463
Iowa	-	-	-	-	8	-	3,777	3,998
Kansas	-	-	-	-	-	-	1,234	5,713
Kentucky	-	-	-	-	-	-	8,249	10,334
Michigan	3,853	5,103	-	120	40	-	53,911	62,847
Minnesota	-	-	-	-	-	-	26,526	36,644
Missouri	865	243	-	505	-	-	20,809	22,111
Nebraska	-	-	-	-	3	-	4,953	7,114
North Dakota	-	-	-	-	-	-	6,716	5,757
Ohio	2,306	3,506	-	-	-	-	59,485	72,212
Oklahoma	-	-	-	-	-	-	13,502	10,994
South Dakota	-	-	-	-	-	-	560	1,700
Tennessee	77	89	-	-	-	-	14,838	8,946
Wisconsin	898	1,341	-	-	84	-	33,975	43,357
PAD District III Total	1,958,248	2,014,085	1,792	4,682	-	30	2,116,724	2,267,280
Alabama	106,730	104,103	-	-	-	-	127,491	134,101
Arkansas	-	-	-	-	-	-	8,362	9,773
Louisiana	927,338	1,081,956	1,792	1,847	-	-	945,225	1,121,173
Mississippi	103,276	71,219	-	-	-	-	106,606	145,332
New Mexico	-	-	-	-	-	30	7,323	8,270
Texas	820,905	756,807	-	2,835	-	-	921,716	848,631
PAD District IV Total	-	-	-	7	209	69	23,202	12,089
Colorado	-	-	-	7	3	4	10	179
Idaho	-	-	-	-	29	5	544	280
Montana	-	-	-	-	-	-	9,682	7,693
Utah	-	-	-	-	40	23	12,070	3,685
Wyoming	-	-	-	-	137	38	895	253
PAD District V Total	2,720,041	2,327,031	8,824	11,488	1,779	2,601	3,361,987	2,919,153
Alaska	4,674	149	-	-	-	-	20,051	16,606
Arizona	-	-	-	-	-	-	2,824	3,586
California	1,797,809	1,650,161	7,807	7,374	104	27	1,865,905	1,670,988
Hawaii	109,640	26,450	120	3,398	1,653	2,574	572,135	541,377
Nevada	-	-	-	-	-	-	44,364	5,482
Oregon	129,370	128,963	897	-	22	-	147,250	138,233
Washington	678,548	521,308	-	716	-	-	709,459	542,881

Dashes (-) = No data reported.

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

Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 1995 and 1996.

Table 6. Sales of Kerosene by End Use, 1995 and 1996

(Thousand Gallons)

Destination	Residential		Commercial		Industrial	
	1995	1996	1995	1996	1995	1996
U.S. Total	550,336	657,636	163,716	155,792	86,902	102,322
PAD District I Total	440,639	530,407	132,354	116,949	59,357	65,977
Subdistrict IA Total	78,901	95,280	16,254	13,593	7,148	2,962
Connecticut	5,127	5,217	1,144	3,012	3,904	1,062
Maine	45,725	57,548	6,783	6,222	933	453
Massachusetts	5,463	6,219	4,615	1,965	1,365	474
New Hampshire	13,901	16,486	1,834	1,746	603	435
Rhode Island	1,123	1,268	1,278	82	284	119
Vermont	7,563	8,542	600	566	60	420
Subdistrict IB Total	176,460	206,836	90,240	75,937	40,764	47,702
Delaware	5,037	7,574	99	260	10	2,017
District of Columbia	265	259	5,402	4,251	-	-
Maryland	22,450	24,925	8,807	6,324	1,520	1,305
New Jersey	9,926	11,912	23,761	10,216	17,257	13,030
New York	52,099	60,898	30,006	31,554	16,640	27,225
Pennsylvania	86,682	101,268	22,166	23,333	5,337	4,125
Subdistrict IC Total	185,278	228,291	25,859	27,418	11,444	15,312
Florida	8,846	11,067	4,002	4,445	210	1,230
Georgia	5,278	6,047	1,477	1,311	1,053	1,379
North Carolina	88,104	106,932	6,178	7,496	3,429	5,399
South Carolina	19,751	23,570	1,094	977	2,849	3,417
Virginia	51,244	64,847	11,566	11,651	1,838	1,485
West Virginia	12,055	15,829	1,542	1,538	2,065	2,401
PAD District II Total	93,893	107,822	25,255	30,506	15,373	19,453
Illinois	3,521	4,020	3,375	2,826	3,991	4,917
Indiana	9,016	12,096	2,947	2,887	1,221	1,903
Iowa	1,032	1,247	106	184	205	118
Kansas	533	808	236	208	90	115
Kentucky	17,428	18,410	4,925	4,649	2,813	3,092
Michigan	9,772	9,646	4,285	6,278	894	937
Minnesota	2,097	2,558	979	1,123	106	97
Missouri	1,357	2,368	432	1,138	111	1,034
Nebraska	157	159	168	167	27	44
North Dakota	154	224	54	74	2	3
Ohio	31,432	34,377	3,727	6,507	4,355	5,204
Oklahoma	156	843	216	210	104	181
South Dakota	156	216	30	25	3	8
Tennessee	15,644	19,139	3,362	3,722	1,110	1,357
Wisconsin	1,439	1,711	412	510	341	444
PAD District III Total	5,758	6,706	3,241	2,768	8,889	10,679
Alabama	2,789	2,675	402	392	1,739	1,988
Arkansas	584	493	190	222	422	299
Louisiana	380	707	250	313	796	971
Mississippi	847	941	312	233	724	796
New Mexico	235	274	147	31	220	331
Texas	923	1,616	1,940	1,577	4,987	6,293
PAD District IV Total	1,632	1,626	441	585	1,022	1,158
Colorado	836	868	190	245	55	62
Idaho	627	526	128	153	4	7
Montana	21	28	11	20	3	3
Utah	121	176	45	119	50	73
Wyoming	27	29	66	49	909	1,013
PAD District V Total	8,415	11,075	2,426	4,984	2,263	5,055
Alaska	13	12	20	6	5	4
Arizona	85	118	49	102	18	47
California	3,397	4,343	1,122	2,889	1,782	4,404
Hawaii	1	1	5	2	14	15
Nevada	240	263	53	64	53	55
Oregon	1,072	1,700	594	1,580	103	205
Washington	3,607	4,640	582	342	287	326

See footnotes at end of table.

Table 6. Sales of Kerosene by End Use, 1995 and 1996 (Continued)

(Thousand Gallons)

Destination	Farm		All Other		Total	
	1995	1996	1995	1996	1995	1996
U.S. Total	19,919	26,017	7,576	7,223	828,450	948,990
PAD District I Total	7,629	9,408	3,476	3,008	643,455	725,749
Subdistrict IA Total	685	974	413	236	103,401	113,046
Connecticut	20	9	58	-	10,254	9,300
Maine	220	239	146	40	53,806	64,502
Massachusetts	65	106	51	26	11,559	8,788
New Hampshire	105	186	86	81	16,529	18,934
Rhode Island	-	-	-	1	2,685	1,470
Vermont	274	434	72	88	8,569	10,050
Subdistrict IB Total	1,707	2,702	1,800	2,244	310,972	335,421
Delaware	44	35	151	1	5,341	9,886
District of Columbia	-	-	-	-	5,667	4,510
Maryland	728	875	157	265	33,662	33,693
New Jersey	7	38	126	140	51,077	35,337
New York	287	1,099	255	337	99,287	121,113
Pennsylvania	641	655	1,111	1,501	115,938	130,882
Subdistrict IC Total	5,238	5,732	1,262	528	229,082	277,282
Florida	80	140	18	8	13,156	16,891
Georgia	172	2	227	159	8,206	8,898
North Carolina	781	1,433	619	105	99,111	121,364
South Carolina	217	279	182	11	24,094	28,254
Virginia	3,246	3,239	56	59	67,951	81,282
West Virginia	743	639	160	186	16,564	20,593
PAD District II Total	10,186	14,878	2,603	2,916	147,310	175,575
Illinois	881	4,303	547	666	12,315	16,733
Indiana	498	1,331	182	296	13,865	18,513
Iowa	1,499	691	37	23	2,879	2,262
Kansas	222	397	115	21	1,197	1,549
Kentucky	1,305	1,729	724	273	27,194	28,152
Michigan	233	382	205	429	15,389	17,672
Minnesota	1,167	1,190	14	191	4,362	5,158
Missouri	237	302	95	49	2,231	4,892
Nebraska	249	315	101	125	702	810
North Dakota	8	7	6	15	224	322
Ohio	3,161	3,488	350	592	43,025	50,167
Oklahoma	82	62	65	55	623	1,351
South Dakota	67	99	3	15	259	364
Tennessee	374	264	74	104	20,564	24,586
Wisconsin	204	318	84	62	2,480	3,046
PAD District III Total	425	516	837	517	19,149	21,185
Alabama	9	8	135	19	5,075	5,082
Arkansas	84	52	349	34	1,629	1,099
Louisiana	17	69	111	214	1,554	2,274
Mississippi	24	84	67	9	1,974	2,064
New Mexico	24	13	52	59	678	709
Texas	267	290	122	182	8,240	9,958
PAD District IV Total	175	186	101	126	3,369	3,681
Colorado	84	120	58	71	1,223	1,366
Idaho	35	35	34	5	828	726
Montana	4	3	-	1	40	54
Utah	52	20	2	7	270	394
Wyoming	-	9	6	41	1,008	1,141
PAD District V Total	1,504	1,029	560	657	15,167	22,801
Alaska	-	-	-	1	37	23
Arizona	4	5	2	17	159	288
California	308	359	267	365	6,877	12,360
Hawaii	1	3	-	-	22	22
Nevada	12	15	11	3	370	399
Oregon	605	71	248	182	2,623	3,737
Washington	574	576	31	89	5,081	5,972

Dashes (-) = No data reported.

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

Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 1995 and 1996.

Table 7. Sales for Residential Use: Distillate Fuel Oil and Kerosene, 1996
(Thousand Gallons)

Destination	Distillate Fuel Oil			Kerosene
	No. 1	No. 2	Total	
U.S. Total	198,624	6,711,394	6,910,018	657,636
PAD District I Total	32,490	5,688,798	5,721,288	530,407
Subdistrict IA Total	13,867	2,142,235	2,156,102	95,280
Connecticut	2,476	571,397	573,873	5,217
Maine	2,814	325,320	328,134	57,548
Massachusetts	7,682	790,445	798,127	6,219
New Hampshire	896	200,910	201,806	16,486
Rhode Island	-	151,241	151,241	1,268
Vermont	-	102,922	102,922	8,542
Subdistrict IB Total	15,465	3,041,051	3,056,516	206,836
Delaware	-	47,433	47,433	7,574
District of Columbia	-	13,134	13,134	259
Maryland	527	252,077	252,604	24,925
New Jersey	55	528,901	528,956	11,912
New York	-	1,314,434	1,314,434	60,898
Pennsylvania	14,883	885,072	899,955	101,268
Subdistrict IC Total	3,157	505,512	508,669	228,291
Florida	21	9,241	9,262	11,067
Georgia	65	6,492	6,557	6,047
North Carolina	165	184,879	185,044	106,932
South Carolina	1,084	29,860	30,944	23,570
Virginia	1,367	249,442	250,809	64,847
West Virginia	455	25,597	26,052	15,829
PAD District II Total	109,972	793,225	903,197	107,822
Illinois	5,541	26,884	32,425	4,020
Indiana	10,086	52,820	62,906	12,096
Iowa	6,296	27,349	33,645	1,247
Kansas	409	346	755	808
Kentucky	1,779	27,014	28,793	18,410
Michigan	14,816	152,908	167,724	9,646
Minnesota	32,772	117,235	150,007	2,558
Missouri	2,335	12,029	14,364	2,368
Nebraska	1,836	3,081	4,917	159
North Dakota	7,399	28,150	35,549	224
Ohio	3,398	160,774	164,172	34,377
Oklahoma	845	167	1,012	843
South Dakota	7,150	19,935	27,085	216
Tennessee	1,031	10,645	11,676	19,139
Wisconsin	14,280	153,888	168,168	1,711
PAD District III Total	96	560	656	6,706
Alabama	47	390	437	2,675
Arkansas	-	39	39	493
Louisiana	24	5	29	707
Mississippi	1	26	27	941
New Mexico	24	98	122	274
Texas	-	3	3	1,616
PAD District IV Total	13,501	23,994	37,495	1,626
Colorado	201	1,739	1,940	868
Idaho	3,114	13,864	16,978	526
Montana	9,584	4,560	14,144	28
Utah	357	2,881	3,238	176
Wyoming	245	949	1,194	29
PAD District V Total	42,565	204,818	247,383	11,075
Alaska	33,887	49,891	83,778	12
Arizona	30	389	419	118
California	312	6,111	6,423	4,343
Hawaii	-	10	10	1
Nevada	423	8,198	8,621	263
Oregon	3,365	49,039	52,404	1,700
Washington	4,548	91,179	95,727	4,640

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.

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

Table 8. Sales for Commercial Use: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 1996
(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	139,332	1,540,121	1,080,073	498,422	3,118,616	345,672	3,603,620	927,834	155,792
PAD District I Total	22,247	1,393,582	465,740	204,178	2,063,499	344,436	2,430,182	892,897	116,949
Subdistrict IA Total	3,514	431,354	85,887	21,178	538,420	64,107	606,041	194,722	13,593
Connecticut	123	99,299	19,344	962	119,605	8,861	128,589	19,327	3,012
Maine	498	82,862	16,029	1,930	100,821	4,023	105,342	21,593	6,222
Massachusetts	596	166,405	25,452	12,401	204,258	40,166	245,020	103,341	1,965
New Hampshire	286	38,550	12,286	985	51,821	5,280	57,387	19,010	1,746
Rhode Island	2,011	20,560	7,030	1,579	29,169	3,947	35,127	28,371	82
Vermont	-	23,678	5,747	3,321	32,746	1,830	34,575	3,081	566
Subdistrict IB Total	17,064	812,046	199,999	53,344	1,065,388	275,488	1,357,941	671,825	75,937
Delaware	-	10,895	2,312	1,510	14,717	1,922	16,638	9,410	260
District of Columbia	-	28,093	5,900	1,046	35,038	6,736	41,774	4,074	4,251
Maryland	515	91,252	30,336	17,986	139,574	2,035	142,124	4,572	6,324
New Jersey	14,478	129,679	32,964	4,829	167,472	32,951	214,902	54,474	10,216
New York	1,869	390,255	52,940	5,386	448,581	224,643	675,093	543,869	31,554
Pennsylvania	201	161,872	75,547	22,587	260,006	7,201	267,409	55,425	23,333
Subdistrict IC Total	1,669	150,181	179,853	129,657	459,691	4,840	466,200	26,350	27,418
Florida	726	5,506	65,060	20,711	91,277	164	92,167	4,198	4,445
Georgia	264	5,766	31,930	12,283	49,979	-	50,243	449	1,311
North Carolina	33	49,792	23,170	47,041	120,002	2,714	122,749	9,340	7,496
South Carolina	4	5,138	22,154	14,593	41,885	-	41,888	1,592	977
Virginia	85	80,973	31,972	32,807	145,752	1,860	147,697	10,770	11,651
West Virginia	557	3,005	5,568	2,222	10,795	103	11,456	-	1,538
PAD District II Total	70,558	109,831	249,691	145,785	505,306	737	576,601	22,117	30,506
Illinois	30,978	14,840	18,608	14,511	47,960	80	79,018	8,061	2,826
Indiana	2,838	12,877	14,257	11,956	39,090	3	41,931	577	2,887
Iowa	4,248	2,224	7,527	1,484	11,235	-	15,483	34	184
Kansas	3,462	295	15,796	4,532	20,622	-	24,085	76	208
Kentucky	346	4,620	27,174	19,444	51,238	271	51,855	7	4,649
Michigan	11,318	13,812	38,597	13,036	65,445	-	76,763	194	6,278
Minnesota	6,812	17,675	12,762	6,805	37,242	-	44,055	5,881	1,123
Missouri	2,897	4,282	24,021	25,660	53,963	37	56,897	240	1,138
Nebraska	1,017	619	6,695	1,684	8,998	-	10,015	-	167
North Dakota	1,314	4,201	2,453	1,093	7,747	-	9,062	247	74
Ohio	131	10,142	25,745	21,764	57,652	250	58,032	73	6,507
Oklahoma	387	-	14,996	1,260	16,256	-	16,643	-	210
South Dakota	1,497	4,935	3,894	569	9,398	-	10,895	-	25
Tennessee	147	2,561	22,503	14,129	39,193	25	39,366	1,178	3,722
Wisconsin	3,164	16,748	14,662	7,857	39,267	71	42,502	5,550	510
PAD District III Total	3,936	7,666	106,217	66,208	180,091	-	184,027	59	2,768
Alabama	22	2,091	13,642	8,411	24,144	-	24,166	24	392
Arkansas	80	6	6,931	5,620	12,557	-	12,637	9	222
Louisiana	160	195	3,266	2,221	5,682	-	5,842	26	313
Mississippi	24	570	9,946	6,728	17,244	-	17,268	-	233
New Mexico	225	65	6,036	1,313	7,414	-	7,639	-	31
Texas	3,425	4,740	66,395	41,914	113,049	-	116,474	-	1,577
PAD District IV Total	12,229	5,793	60,525	10,743	77,061	-	89,290	865	585
Colorado	6,009	982	23,531	1,311	25,825	-	31,834	-	245
Idaho	980	1,354	11,798	5,626	18,778	-	19,758	179	153
Montana	1,215	1,514	7,060	152	8,726	-	9,941	106	20
Utah	1,059	589	11,272	3,353	15,213	-	16,272	574	119
Wyoming	2,966	1,354	6,864	301	8,519	-	11,485	6	49
PAD District V Total	30,362	23,249	197,901	71,508	292,658	499	323,520	11,896	4,984
Alaska	21,993	14,552	44	14,257	28,852	488	51,333	-	6
Arizona	140	13	21,482	4,081	25,576	-	25,715	204	102
California	691	2,435	92,522	15,603	110,560	-	111,251	520	2,889
Hawaii	4	139	6,612	2,968	9,719	-	9,723	535	2
Nevada	1,105	1,433	34,110	6,263	41,806	-	42,911	-	64
Oregon	2,328	2,517	18,539	16,201	37,257	11	39,596	3,511	1,580
Washington	4,101	2,160	24,593	12,137	38,889	-	42,990	7,125	342

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.

• Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1996,

(DOE/EIA-0340(96)/1).

Table 9. Sales for Industrial Use: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 1996
(Thousand Gallons)

Destination	Distillate Fuel Oil							Residual Fuel Oil	Kerosene
	No. 1 Distillate	No. 2 Distillate				No. 4 Fuel	Total Distillate		
		No. 2 Fuel Oil	Low Sulfur Diesel	High Sulfur Diesel	No. 2 Total				
U.S. Total	60,003	457,744	593,730	1,114,789	2,166,263	62,423	2,288,689	2,089,436	102,322
PAD District I Total	3,085	273,647	96,780	329,687	700,114	57,681	760,880	1,595,527	65,977
Subdistrict IA Total	65	61,479	10,437	4,703	76,618	21,004	97,688	503,004	2,962
Connecticut	-	11,832	747	133	12,713	9,972	22,685	40,733	1,062
Maine	65	23,844	1,864	487	26,195	1,195	27,455	328,008	453
Massachusetts	-	14,201	2,986	2,518	19,706	4,829	24,534	71,286	474
New Hampshire	-	3,588	1,516	476	5,580	1,140	6,720	40,680	435
Rhode Island	-	3,469	2,703	625	6,796	2,678	9,475	13,378	119
Vermont	-	4,544	620	464	5,629	1,191	6,820	8,919	420
Subdistrict IB Total	803	108,667	41,786	57,343	207,796	28,270	236,870	334,383	47,702
Delaware	-	1,679	3,708	2,850	8,236	116	8,352	39,056	2,017
District of Columbia	-	322	135	-	457	-	457	10	-
Maryland	608	16,106	10,869	8,321	35,296	1,810	37,714	57,229	1,305
New Jersey	2	26,780	1,011	4,533	32,324	11,816	44,142	68,261	13,030
New York	-	33,289	2,857	7,064	43,209	6,012	49,221	103,534	27,225
Pennsylvania	193	30,491	23,207	34,576	88,273	8,517	96,984	66,294	4,125
Subdistrict IC Total	2,217	103,502	44,557	267,641	415,700	8,406	426,322	758,140	15,312
Florida	14	5,365	6,623	30,434	42,422	4,919	47,355	158,621	1,230
Georgia	-	12,584	6,734	41,950	61,268	414	61,682	146,479	1,379
North Carolina	-	38,400	12,930	35,461	86,790	2,118	88,908	266,980	5,399
South Carolina	-	11,255	5,005	10,942	27,202	492	27,694	95,334	3,417
Virginia	-	22,802	6,871	49,602	79,275	451	79,727	75,935	1,485
West Virginia	2,202	13,095	6,394	99,252	118,742	13	120,956	14,792	2,401
PAD District II Total	26,143	153,232	120,700	359,988	633,920	2,923	662,986	255,397	19,453
Illinois	1,519	12,619	9,032	30,671	52,322	51	53,891	21,195	4,917
Indiana	2,116	28,075	21,835	19,190	69,100	209	71,424	43,439	1,903
Iowa	1,799	1,569	14,763	2,883	19,216	-	21,014	3,963	118
Kansas	509	870	5,678	3,744	10,292	15	10,816	5,637	115
Kentucky	211	9,827	12,351	164,073	186,252	666	187,129	6,647	3,092
Michigan	535	13,656	11,008	18,957	43,621	-	44,156	15,022	937
Minnesota	8,520	20,346	3,409	7,337	31,092	84	39,696	18,387	97
Missouri	2,257	10,634	12,173	9,064	31,872	353	34,483	13,120	1,034
Nebraska	565	160	1,009	2,464	3,633	-	4,199	7,114	44
North Dakota	1,014	3,716	1,182	906	5,805	-	6,819	5,504	3
Ohio	116	13,582	8,236	52,185	74,003	426	74,546	63,305	5,204
Oklahoma	-	1,812	775	6,492	9,079	-	9,080	10,994	181
South Dakota	989	1,182	6,216	1,189	8,587	273	9,850	1,700	8
Tennessee	-	6,400	6,612	26,955	39,967	800	40,766	7,566	1,357
Wisconsin	5,994	28,783	6,419	13,877	49,078	47	55,119	31,801	444
PAD District III Total	3,335	13,728	94,864	178,853	287,446	60	290,841	168,522	10,679
Alabama	1	3,274	11,390	47,637	62,302	-	62,302	29,974	1,988
Arkansas	-	54	2,265	8,984	11,304	-	11,304	4,915	299
Louisiana	-	5,665	2,070	16,788	24,524	-	24,524	31,670	971
Mississippi	-	3,250	8,762	13,922	25,934	60	25,994	4,778	796
New Mexico	2,055	72	17,440	10,600	28,113	-	30,167	8,239	331
Texas	1,279	1,412	52,936	80,922	135,270	-	136,549	88,946	6,293
PAD District IV Total	12,603	2,222	96,496	23,128	121,847	89	134,538	3,659	1,158
Colorado	1,627	-	9,864	3,174	13,038	-	14,665	168	62
Idaho	2,084	147	8,503	12,291	20,942	-	23,027	96	7
Montana	3,069	55	14,438	1,117	15,610	-	18,679	99	3
Utah	1,081	563	12,903	5,956	19,422	8	20,511	3,087	73
Wyoming	4,741	1,457	50,788	589	52,835	81	57,657	209	1,013
PAD District V Total	14,838	14,915	184,889	223,133	422,937	1,670	439,445	66,332	5,055
Alaska	5,961	9,011	29,563	17,433	56,007	21	61,990	16,456	4
Arizona	1,383	-	32,678	76,181	108,859	35	110,277	3,382	47
California	6	1,427	49,960	4,330	55,717	1,614	57,337	11,478	4,404
Hawaii	-	128	1,125	2,580	3,834	-	3,834	10,858	15
Nevada	6,496	8	46,588	93,754	140,349	-	146,846	5,368	55
Oregon	614	2,460	12,728	19,714	34,902	-	35,516	5,680	205
Washington	377	1,880	12,249	9,139	23,267	-	23,645	13,109	326

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.

• Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1996, (DOE/EIA-0340(96)/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, 1996
(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	3,478,602	112,781	3,591,383	26,017	657,881	4,304,492	730,676	167,425
PAD District I Total	361,353	48,322	409,674	9,408	272,879	3,657,186	9,932	101,783
Subdistrict IA Total	12,280	4,307	16,587	974	20,018	940,989	558	822
Connecticut	1,980	679	2,659	9	1,663	419,126	235	243
Maine	2,299	1,498	3,797	239	845	60,487	-	-
Massachusetts	3,508	641	4,148	106	12,099	407,212	229	580
New Hampshire	562	364	926	186	1,609	54,164	-	-
Rhode Island	56	43	100	-	3,741	-	91	-
Vermont	3,875	1,082	4,957	434	62	-	2	-
Subdistrict IB Total	82,480	25,674	108,154	2,702	106,046	1,166,608	4,445	100,576
Delaware	5,574	73	5,647	35	8,016	68,711	769	23,018
District of Columbia	-	-	-	-	16,587	-	-	-
Maryland	23,275	3,417	26,691	875	23,278	76,380	134	653
New Jersey	6,271	1,029	7,300	38	4,974	143,806	1,522	2,341
New York	21,690	12,150	33,839	1,099	14,299	718,952	1,017	893
Pennsylvania	25,670	9,005	34,676	655	38,891	158,759	1,003	73,672
Subdistrict IC Total	266,592	18,341	284,933	5,732	146,815	1,549,590	4,930	384
Florida	76,161	190	76,350	140	67,739	1,502,436	560	78
Georgia	101,643	597	102,239	2	26,214	4,113	1,280	-
North Carolina	30,623	3,800	34,423	1,433	22,454	-	115	-
South Carolina	19,741	4,673	24,414	279	8,364	-	416	144
Virginia	35,197	8,079	43,275	3,239	9,831	43,041	1,226	162
West Virginia	3,228	1,003	4,232	639	12,213	-	1,333	-
PAD District II Total	1,639,885	56,582	1,696,468	14,878	158,398	97,019	49,821	28,733
Illinois	204,678	2,764	207,442	4,303	29,294	45,194	1,364	3,979
Indiana	92,540	2,262	94,802	1,331	17,663	-	2,843	-
Iowa	199,014	9,603	208,617	691	2,357	-	10	-
Kansas	164,660	702	165,362	397	6,028	-	4,967	-
Kentucky	31,532	1,022	32,554	1,729	8,708	-	306	3,681
Michigan	59,032	5,396	64,427	382	24,541	39,797	2,017	2,610
Minnesota	167,307	15,017	182,324	1,190	9,470	3,417	-	8,959
Missouri	59,006	392	59,398	302	5,102	8,004	40	-
Nebraska	175,858	1,429	177,287	315	1,451	-	628	-
North Dakota	104,208	1,063	105,271	7	5,293	5	8,449	-
Ohio	88,755	5,440	94,195	3,488	21,594	602	1,159	4,726
Oklahoma	76,743	344	77,087	62	389	-	27,858	-
South Dakota	75,886	4,899	80,785	99	1,193	-	79	-
Tennessee	58,415	227	58,642	264	17,297	-	100	113
Wisconsin	82,252	6,021	88,273	318	8,017	-	2	4,665
PAD District III Total	840,432	1,604	842,036	516	62,717	79,902	570,782	-
Alabama	37,686	94	37,780	8	12,298	-	9,902	-
Arkansas	107,623	41	107,664	52	5,412	4,849	1,672	-
Louisiana	62,143	-	62,143	69	18,006	5,675	339,031	-
Mississippi	94,814	381	95,195	84	4,265	69,336	1,329	-
New Mexico	17,685	-	17,685	13	1,500	-	19,861	-
Texas	520,481	1,089	521,569	290	21,236	43	198,986	-
PAD District IV Total	203,309	1,645	204,954	186	6,066	-	25,986	7,488
Colorado	67,533	500	68,033	120	858	-	7,742	-
Idaho	46,336	25	46,361	35	333	-	2	-
Montana	64,006	990	64,996	3	63	-	1,418	7,488
Utah	14,583	116	14,700	20	2,149	-	4,268	-
Wyoming	10,850	14	10,864	9	2,663	-	12,557	-
PAD District V Total	433,623	4,628	438,252	1,029	157,822	470,384	74,155	29,421
Alaska	1	1	2	-	37,660	-	66,990	-
Arizona	27,380	-	27,380	5	2,497	-	100	-
California	288,442	821	289,264	359	4,107	-	5,093	1,427
Hawaii	7,051	1,411	8,462	3	108,863	470,307	664	27,256
Nevada	6,443	29	6,472	15	1,792	-	505	114
Oregon	38,211	1,461	39,673	71	825	77	51	-
Washington	66,095	904	66,999	576	2,078	-	752	624

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.

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

Table 11. Sales for Transportation Use: Distillate Fuel Oil and Residual Fuel Oil, 1996
(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	3,446,939	2,490,793	5,701,233	26,958,668	32,896,400	5,701,233
PAD District I Total	579,618	523,630	1,336,126	8,372,128	9,475,376	1,336,126
Subdistrict IA Total	25,354	73,340	84,532	858,402	957,096	84,532
Connecticut	6,338	2,521	174	^E 208,249	217,109	174
Maine	5,852	12,726	2,019	135,339	153,917	2,019
Massachusetts	12,372	47,198	82,041	313,984	373,554	82,041
New Hampshire	152	752	209	60,949	61,853	209
Rhode Island	97	9,669	91	44,378	54,144	91
Vermont	542	475	—	95,503	96,520	—
Subdistrict IB Total	146,456	140,785	774,069	3,063,474	3,350,715	774,069
Delaware	423	6,507	84,114	59,290	66,220	84,114
District of Columbia	6,283	2	—	20,949	27,234	—
Maryland	28,932	20,645	25,512	355,412	404,990	25,512
New Jersey	65,054	82,680	251,288	532,936	680,670	251,288
New York	7,180	14,157	273,006	924,782	946,119	273,006
Pennsylvania	38,584	16,793	140,149	1,170,105	1,225,482	140,149
Subdistrict IC Total	407,808	309,504	477,525	4,450,252	5,167,564	477,525
Florida	106,030	169,329	343,976	^E 962,504	1,237,863	343,976
Georgia	78,361	10,605	52,604	1,345,755	1,434,721	52,604
North Carolina	74,266	19,715	7,437	794,837	888,818	7,437
South Carolina	11,397	11,093	25,272	458,312	480,802	25,272
Virginia	131,296	26,610	48,065	757,666	915,572	48,065
West Virginia	6,458	72,152	171	131,178	209,788	171
PAD District II Total	1,440,730	486,978	23,991	9,125,173	11,052,881	23,991
Illinois	204,872	47,864	1,263	884,696	1,137,432	1,263
Indiana	130,281	17,278	12,447	1,036,200	1,183,759	12,447
Iowa	67,532	7,153	—	458,660	533,345	—
Kansas	124,233	—	—	352,872	477,105	—
Kentucky	106,426	149,299	—	587,549	843,274	—
Michigan	44,511	4,850	5,103	772,262	821,623	5,103
Minnesota	73,042	4,933	—	482,131	560,106	—
Missouri	23,245	166,736	243	767,383	957,364	243
Nebraska	169,069	50	—	336,764	505,883	—
North Dakota	47,410	—	—	135,043	182,453	—
Ohio	137,926	8,619	3,506	1,275,402	1,421,947	3,506
Oklahoma	155,215	150	—	541,337	696,702	—
South Dakota	1,996	—	—	141,728	143,724	—
Tennessee	98,703	77,901	89	754,982	931,586	89
Wisconsin	56,267	2,146	1,341	598,164	656,578	1,341
PAD District III Total	653,208	1,115,468	2,014,085	4,522,044	6,290,719	2,014,085
Alabama	52,942	65,703	104,103	646,567	765,212	104,103
Arkansas	67,559	3,334	—	495,380	566,274	—
Louisiana	28,011	717,578	1,081,956	508,414	1,254,003	1,081,956
Mississippi	24,897	27,191	71,219	400,100	452,188	71,219
New Mexico	22,442	—	—	314,590	337,032	—
Texas	457,357	301,661	756,807	2,156,993	2,916,011	756,807
PAD District IV Total	346,232	260	—	1,094,512	1,441,005	—
Colorado	100,324	—	—	273,207	373,531	—
Idaho	29,101	241	—	187,828	217,170	—
Montana	71,530	3	—	140,625	212,158	—
Utah	40,899	16	—	255,192	296,106	—
Wyoming	104,379	—	—	237,660	342,039	—
PAD District V Total	427,151	364,457	2,327,031	3,844,811	4,636,419	2,327,031
Alaska	4,495	143,756	149	34,918	183,169	149
Arizona	3,745	17	—	543,643	547,405	—
California	252,463	100,226	1,650,161	2,115,704	2,468,394	1,650,161
Hawaii	—	23,722	26,450	40,447	64,169	26,450
Nevada	8,284	—	—	^E 244,609	252,893	—
Oregon	83,034	23,627	128,963	386,239	492,900	128,963
Washington	75,129	73,109	521,308	479,251	627,490	521,308

^E Estimated data. Florida's 1996 estimate is based on seven months of data. Nevada's 1996 estimate is based on eight months of data. Connecticut's 1996 data are a Federal Highway Administration estimate.

Dashes (-) = No data reported.

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

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

• 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, 1996
(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	405,844	48,600	454,443	56,225	1,776,271	469,651	2,245,922	-	10,354	7,223
PAD District I Total	42,083	39,643	81,726	39,403	514,219	110,730	624,949	-	7,653	3,008
Subdistrict IA Total	4,426	6,855	11,281	11,012	52,215	23,251	75,466	-	348	236
Connecticut	259	3,686	3,945	1,352	7,850	1,809	9,660	-	-	-
Maine	604	2,995	3,599	6,556	12,371	14,429	26,799	-	348	40
Massachusetts	1,405	54	1,459	3,104	22,995	1,081	24,077	-	-	26
New Hampshire	54	-	54	-	4,246	5,204	9,450	-	-	81
Rhode Island	1,902	30	1,933	-	2,810	282	3,092	-	-	1
Vermont	202	89	291	-	1,943	446	2,389	-	-	88
Subdistrict IB Total	13,254	24,677	37,931	13,767	161,596	11,429	173,025	-	-	2,244
Delaware	292	1,063	1,355	792	6,896	221	7,117	-	-	1
District of Columbia	74	1,973	2,048	-	326	-	326	-	-	-
Maryland	9,304	9,066	18,370	6,611	23,826	1,060	24,887	-	-	265
New Jersey	1,307	665	1,972	4,213	27,099	3,685	30,784	-	-	140
New York	236	2,165	2,401	874	48,448	181	48,629	-	-	337
Pennsylvania	2,040	9,745	11,785	1,278	55,001	6,282	61,282	-	-	1,501
Subdistrict IC Total	24,403	8,111	32,514	14,624	300,408	76,050	376,459	-	7,305	528
Florida	7,412	-	7,412	1,552	113,554	7,730	121,285	-	7,253	8
Georgia	2,604	433	3,037	-	51,373	21,788	73,161	-	-	159
North Carolina	2,927	1,019	3,946	6,517	57,418	9,162	66,580	-	52	105
South Carolina	1,298	683	1,981	2,868	20,854	18,968	39,822	-	-	11
Virginia	9,962	5,600	15,562	3,687	48,878	16,693	65,571	-	-	59
West Virginia	200	375	576	-	8,331	1,709	10,040	-	-	186
PAD District II Total	19,080	3,189	22,269	646	546,372	102,778	649,150	-	-	2,916
Illinois	1,277	151	1,428	21	65,853	5,740	71,593	-	-	666
Indiana	1,687	207	1,893	-	24,311	9,646	33,958	-	-	296
Iowa	228	-	228	-	31,104	10,814	41,918	-	-	23
Kansas	943	-	943	-	28,013	564	28,577	-	-	21
Kentucky	1,408	-	1,408	-	38,376	6,642	45,018	-	-	273
Michigan	401	1,226	1,627	120	43,984	14,474	58,458	-	-	429
Minnesota	683	-	683	-	45,002	15,954	60,955	-	-	191
Missouri	2,144	659	2,802	505	37,403	6,939	44,342	-	-	49
Nebraska	474	-	474	-	16,239	1,771	18,010	-	-	125
North Dakota	1,748	126	1,874	-	5,178	852	6,030	-	-	15
Ohio	766	5	771	-	68,311	5,582	73,893	-	-	592
Oklahoma	1,794	-	1,794	-	29,803	3,445	33,248	-	-	55
South Dakota	907	805	1,711	-	7,180	1,407	8,587	-	-	15
Tennessee	1,403	-	1,403	-	54,707	8,032	62,740	-	-	104
Wisconsin	3,219	11	3,230	-	50,909	10,915	61,824	-	-	62
PAD District III Total	186,122	830	186,951	4,682	350,002	122,753	472,755	-	30	517
Alabama	3,090	-	3,090	-	67,966	43,142	111,108	-	-	19
Arkansas	850	830	1,680	-	15,046	11,798	26,843	-	-	34
Louisiana	40,567	-	40,567	1,847	109,862	8,855	118,717	-	-	214
Mississippi	4,473	-	4,473	-	17,927	27,248	45,175	-	-	9
New Mexico	2,174	-	2,174	-	17,899	2,347	20,246	-	30	59
Texas	134,968	-	134,968	2,835	121,302	29,364	150,666	-	-	182
PAD District IV Total	1,800	2,644	4,444	7	105,855	25,780	131,634	-	69	126
Colorado	783	72	855	7	40,708	1,760	42,468	-	4	71
Idaho	517	-	517	-	12,549	12,347	24,896	-	5	5
Montana	207	-	207	-	22,132	4,435	26,568	-	-	1
Utah	273	2,573	2,846	-	16,541	3,111	19,652	-	23	7
Wyoming	20	-	20	-	13,924	4,127	18,051	-	38	41
PAD District V Total	156,760	2,293	159,052	11,488	259,823	107,610	367,433	-	2,601	657
Alaska	4,808	680	5,488	-	15,956	17,305	33,261	-	-	1
Arizona	1,064	14	1,078	-	35,588	3,400	38,988	-	-	17
California	94,261	162	94,422	7,374	128,106	35,946	164,053	-	27	365
Hawaii	19,617	-	19,617	3,398	7,132	567	7,699	-	2,574	-
Nevada	1,468	-	1,468	-	16,563	1,693	18,257	-	-	3
Oregon	2,294	59	2,353	-	14,090	21,649	35,739	-	-	182
Washington	33,247	1,379	34,626	716	42,387	27,049	69,437	-	-	89

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.

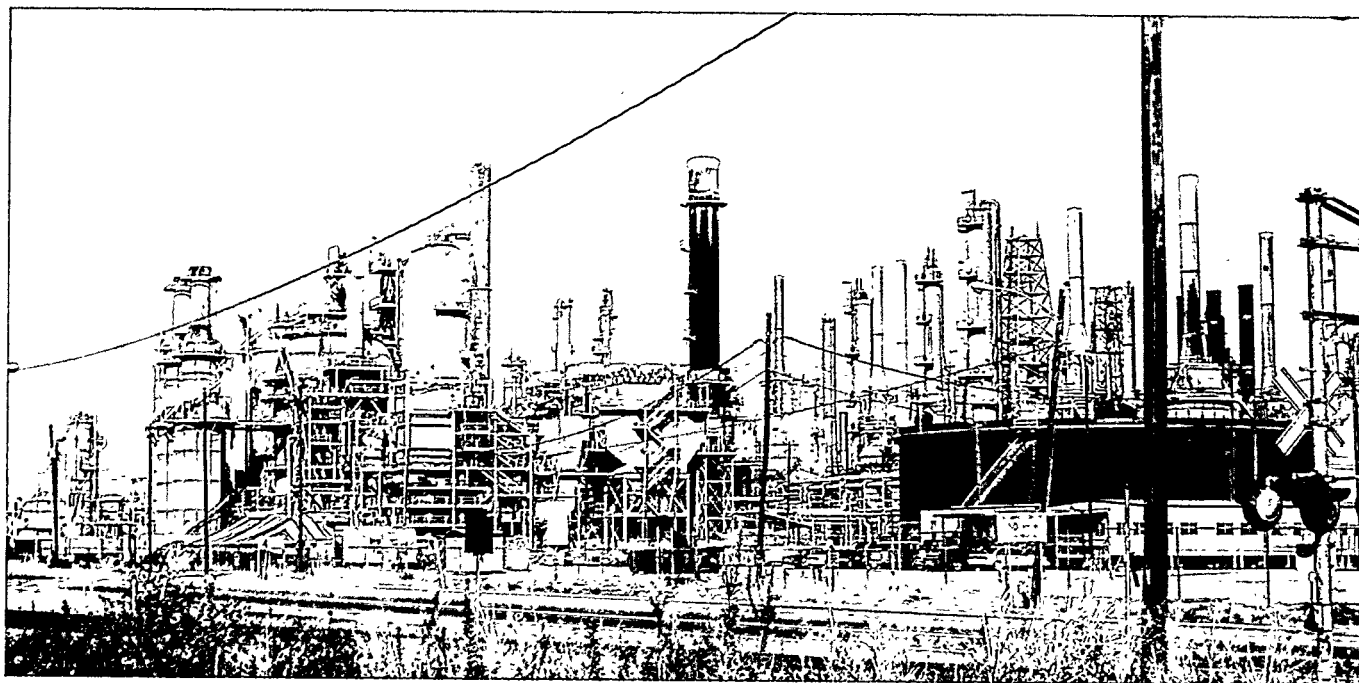
• Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1996, (DOE/EIA-0340(96)/1).

Adjusted Sales of Fuel Oil and Kerosene in 1996

The following tables contain estimates of distillate fuel oil that have been adjusted at the PAD district level to equal published EIA volume estimates of petroleum products supplied in the U.S. marketplace. The kerosene and residual fuel oil sales estimates have been adjusted at the national level. Historically, kerosene estimates have always been adjusted at the PAD district level. However, in 1992, certain kerosene estimates at the PAD district level resulted in negative numbers. Hence, the adjustment procedure was changed to display positive sales volumes of kerosene for all PAD districts.

The products supplied estimates can be found in the 1994 through 1996 issues of the *Petroleum Supply Annual*. For certain sales categories, data obtained from alternate sources are used instead of the adjusted numbers. See "Technical Note 3" in the Appendix for further explanation of data adjustments.

Total domestic adjusted sales of fuel oil and kerosene increased 4.2 percent from 63.0 billion gallons in 1995 to 65.7 billion gallons in 1996. While adjusted sales of distillate increased 5.2 percent in 1996, residual fuel oil dropped 0.1 percent. Kerosene adjusted sales increased by 14.6 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: 1992-1996
(Thousand Gallons)

End Use	Distillate Fuel Oil				
	1992	1993	1994	1995	1996
U.S. Total	45,791,466	46,621,806	48,477,156	49,157,598	51,730,518
Residential	6,238,133	6,577,146	6,335,853	6,370,381	6,707,714
Commercial	3,347,133	3,342,105	3,343,090	3,318,818	3,433,555
Industrial	2,218,843	1,965,557	2,091,611	2,027,409	2,107,190
Oil Company	785,120	763,068	703,946	556,126	625,608
Farm	3,504,846	3,238,675	3,198,640	3,230,765	3,334,420
Electric Utility	468,795	586,845	755,219	601,185	684,263
Railroad	3,217,231	2,906,998	3,063,441	3,191,023	3,266,861
Vessel Bunkering	2,240,170	2,043,745	2,026,899	1,978,105	2,177,608
On-Highway Diesel	21,374,872	22,758,842	24,442,609	25,576,433	26,958,668
Military	650,178	482,773	526,563	368,219	371,093
Off-Highway Diesel	1,739,068	1,953,640	1,988,481	1,939,133	2,063,538
All Other	7,075	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 1992-1996.

• 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, 1992-1996, (DOE/EIA-0340(92)/1 - (96)/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: 1992-1996
(Thousand Gallons)

End Use	Residual Fuel Oil				
	1992	1993	1994	1995	1996
U.S. Total	16,816,674	16,559,004	15,648,654	13,058,262	13,041,042
Commercial	1,289,987	1,217,796	1,171,495	1,007,962	944,717
Industrial	2,332,911	2,823,049	2,579,494	2,160,606	2,127,457
Oil Company	297,332	316,372	267,921	231,022	170,471
Electric Utility	5,587,235	5,841,192	5,609,752	3,164,462	3,925,629
Vessel Bunkering	7,199,078	6,269,882	5,944,838	6,431,238	5,804,977
Military	100,684	86,109	68,368	55,614	57,249
All Other	9,448	4,604	6,745	7,359	10,542

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 1992-1996.

• 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, 1992-1996, (DOE/EIA-0340(92)/1 - (96)/1).

Table 15. Adjusted Sales of Kerosene by End Use in the United States: 1992-1996
(Thousand Gallons)

End Use	Kerosene				
	1992	1993	1994	1995	1996
U.S. Total	636,426	760,788	750,330	828,450	948,990
Residential	481,511	560,103	480,916	550,336	657,636
Commercial	82,398	103,996	144,142	163,716	155,792
Industrial	46,099	58,190	86,629	86,902	102,322
Farm	20,036	27,695	27,686	19,919	26,017
All Other	6,382	10,805	10,957	7,576	7,223

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, 1992-1996, (DOE/EIA-0340(92)/1 - (96)/1).

Table 16. Adjusted Sales of Distillate Fuel Oil by End Use, 1995 and 1996

(Thousand Gallons)

Destination	Residential		Commercial		Industrial	
	1995	1996	1995	1996	1995	1996
U.S. Total	6,370,381	6,707,714	3,318,818	3,433,555	2,027,409	2,107,190
PAD District I Total	5,230,793	5,610,264	2,231,502	2,383,023	699,573	746,115
Subdistrict IA Total	2,053,812	2,114,262	583,812	594,280	95,439	95,792
Connecticut	509,969	562,736	122,824	126,094	19,974	22,245
Maine	310,466	321,766	93,004	103,298	25,623	26,922
Massachusetts	816,733	782,640	263,716	240,265	28,613	24,058
New Hampshire	181,071	197,889	45,946	56,274	8,583	6,589
Rhode Island	141,080	148,306	30,160	34,445	7,121	9,291
Vermont	94,494	100,925	28,162	33,904	5,525	6,687
Subdistrict IB Total	2,738,813	2,997,204	1,209,806	1,331,590	219,933	232,274
Delaware	45,306	46,513	11,459	16,316	6,442	8,190
District of Columbia	11,575	12,879	33,777	40,964	173	448
Maryland	200,384	247,702	126,085	139,366	24,853	36,982
New Jersey	489,693	518,691	141,133	210,732	48,129	43,285
New York	1,165,204	1,288,927	639,527	661,993	51,832	48,266
Pennsylvania	826,651	882,491	257,826	262,220	88,504	95,102
Subdistrict IC Total	438,168	498,798	437,884	457,154	384,201	418,049
Florida	9,273	9,083	119,833	90,379	59,559	46,436
Georgia	6,677	6,430	59,140	49,268	39,208	60,485
North Carolina	163,759	181,453	95,456	120,367	73,053	87,182
South Carolina	28,157	30,344	40,794	41,076	24,906	27,157
Virginia	210,110	245,942	108,137	144,831	69,042	78,180
West Virginia	20,193	25,547	14,523	11,234	118,433	118,609
PAD District II Total	923,558	885,239	593,639	565,136	658,340	649,804
Illinois	34,576	31,780	84,979	77,447	59,580	52,819
Indiana	67,067	61,655	50,155	41,097	67,786	70,004
Iowa	35,476	32,976	18,859	15,175	16,315	20,597
Kansas	649	740	25,553	23,606	9,840	10,601
Kentucky	32,835	28,220	50,597	50,824	195,758	183,408
Michigan	173,335	164,389	74,420	75,236	41,584	43,278
Minnesota	140,184	147,025	39,150	43,179	44,842	38,907
Missouri	19,828	14,078	54,079	55,765	27,005	33,797
Nebraska	4,000	4,819	7,344	9,816	4,055	4,115
North Dakota	32,569	34,842	6,723	8,881	10,744	6,683
Ohio	181,673	160,908	77,648	56,879	83,688	73,064
Oklahoma	494	992	12,267	16,312	5,939	8,899
South Dakota	22,775	26,546	13,674	10,679	8,461	9,654
Tennessee	11,820	11,444	33,558	38,583	32,698	39,956
Wisconsin	166,276	164,824	44,635	41,657	50,045	54,023
PAD District III Total	817	556	154,060	156,172	228,026	246,818
Alabama	363	371	22,385	20,509	48,915	52,872
Arkansas	71	33	10,466	10,724	11,870	9,593
Louisiana	49	24	8,947	4,958	14,077	20,812
Mississippi	17	23	11,051	14,654	19,523	22,060
New Mexico	100	103	8,415	6,483	19,973	25,601
Texas	217	3	92,796	98,844	113,668	115,881
PAD District IV Total	39,542	48,833	89,802	116,291	151,288	175,221
Colorado	1,699	2,528	34,217	41,460	19,123	19,100
Idaho	21,427	22,112	19,082	25,733	31,016	29,990
Montana	10,595	18,422	4,963	12,947	29,128	24,327
Utah	3,515	4,217	18,615	21,193	20,946	26,713
Wyoming	2,307	1,554	12,924	14,958	51,074	75,092
PAD District V Total	175,671	162,821	249,814	212,933	290,182	289,232
Alaska	62,800	55,141	32,097	33,786	34,756	40,800
Arizona	179	276	10,991	16,925	63,157	72,582
California	5,433	4,227	98,146	73,223	55,527	37,738
Hawaii	56	7	10,651	6,400	2,272	2,523
Nevada	5,459	5,674	25,796	28,243	93,907	96,650
Oregon	39,591	34,491	32,928	26,061	19,362	23,376
Washington	62,151	63,006	39,205	28,295	21,200	15,562

See footnotes at end of table.

Table 16. Adjusted Sales of Distillate Fuel Oil by End Use, 1995 and 1996 (Continued)

(Thousand Gallons)

Destination	Oil Company		Farm		Electric Utility	
	1995	1996	1995	1996	1995	1996
U.S. Total	556,126	625,608	3,230,765	3,334,420	601,185	684,263
PAD District I Total	9,552	9,739	366,050	401,724	259,605	283,822
Subdistrict IA Total	1,311	547	16,097	16,265	22,002	20,821
Connecticut	359	230	5,041	2,608	2,876	1,730
Maine	80	—	3,511	3,723	1,057	879
Massachusetts	442	225	2,066	4,068	11,437	12,584
New Hampshire	—	—	908	908	1,212	1,673
Rhode Island	409	90	50	98	5,085	3,891
Vermont	21	2	4,522	4,861	335	64
Subdistrict IB Total	3,339	4,358	96,477	106,055	113,569	110,298
Delaware	282	754	2,957	5,537	3,138	8,337
District of Columbia	—	—	—	—	23,714	17,252
Maryland	568	131	24,689	26,173	27,197	24,212
New Jersey	858	1,492	6,551	7,159	3,919	5,173
New York	1,157	997	31,525	33,183	9,260	14,873
Pennsylvania	475	983	30,754	34,003	46,341	40,451
Subdistrict IC Total	4,901	4,834	253,475	279,404	124,035	152,703
Florida	1,065	549	62,753	74,869	53,779	70,455
Georgia	1,259	1,256	93,123	100,255	16,371	27,265
North Carolina	129	113	40,910	33,755	22,491	23,354
South Carolina	1	408	15,383	23,940	12,822	8,700
Virginia	1,827	1,202	37,501	42,435	7,276	10,225
West Virginia	619	1,307	3,806	4,150	11,295	12,703
PAD District II Total	48,654	48,831	1,775,409	1,662,736	136,813	164,750
Illinois	2,515	1,337	228,073	203,318	25,827	30,469
Indiana	2,275	2,787	114,126	92,917	16,944	18,371
Iowa	6	10	187,053	204,469	2,197	2,452
Kansas	5,156	4,868	171,323	162,074	2,664	6,270
Kentucky	602	300	40,295	31,907	9,092	9,057
Michigan	2,266	1,977	61,811	63,146	23,383	25,525
Minnesota	70	—	178,963	178,699	4,936	9,850
Missouri	57	39	62,364	58,217	6,332	5,307
Nebraska	796	616	192,062	173,762	1,604	1,509
North Dakota	6,388	8,281	111,923	103,178	3,969	5,506
Ohio	2,234	1,136	104,803	92,322	21,703	22,460
Oklahoma	26,145	27,304	76,091	75,554	890	404
South Dakota	30	77	82,375	79,179	280	1,241
Tennessee	111	98	67,414	57,476	9,886	17,990
Wisconsin	2	2	96,734	86,518	7,106	8,338
PAD District III Total	430,696	484,386	584,125	714,583	46,031	65,232
Alabama	7,422	8,403	39,490	32,062	8,231	12,792
Arkansas	1,062	1,419	97,092	91,367	10,016	5,629
Louisiana	259,279	287,714	55,409	52,736	8,632	18,728
Mississippi	1,935	1,128	83,245	80,786	1,549	4,436
New Mexico	18,757	16,855	13,432	15,008	1,199	1,560
Texas	142,242	168,867	295,457	442,623	16,404	22,088
PAD District IV Total	26,643	33,844	208,162	266,930	5,154	6,309
Colorado	10,007	10,083	61,732	88,606	665	892
Idaho	—	—	53,796	60,380	352	347
Montana	1,325	1,846	63,977	84,651	38	65
Utah	3,873	5,559	15,689	19,145	1,701	2,235
Wyoming	11,438	16,354	12,967	14,149	2,398	2,769
PAD District V Total	40,581	48,807	297,020	288,447	153,582	164,151
Alaska	32,713	44,091	111	2	35,935	39,170
Arizona	188	66	20,335	18,021	2,385	2,597
California	6,826	3,352	180,032	190,386	4,316	4,272
Hawaii	700	437	4,524	5,569	109,390	113,229
Nevada	52	332	3,089	4,260	504	1,864
Oregon	3	34	42,830	26,112	830	858
Washington	99	495	46,099	44,097	221	2,162

See footnotes at end of table.

Table 16. Adjusted Sales of Distillate Fuel Oil by End Use, 1995 and 1996 (Continued)

(Thousand Gallons)

Destination	Railroad		Vessel Bunkering		On-Highway	
	1995	1996	1995	1996	1995	1996
U.S. Total	3,191,023	3,266,861	1,978,105	2,177,608	25,576,433	26,958,668
PAD District I Total	517,700	568,371	499,385	513,469	8,099,324	8,372,128
Subdistrict IA Total	27,333	24,862	74,504	71,917	837,751	858,402
Connecticut	6,256	6,215	3,095	2,472	199,252	^E 208,249
Maine	6,261	5,738	18,095	12,479	129,755	135,339
Massachusetts	13,982	12,132	44,055	46,282	315,292	313,984
New Hampshire	281	149	306	737	63,113	60,949
Rhode Island	17	96	8,529	9,481	44,142	44,378
Vermont	536	532	424	466	86,197	95,503
Subdistrict IB Total	180,176	143,614	147,079	138,053	3,007,852	3,063,474
Delaware	427	415	1,247	6,381	62,912	59,290
District of Columbia	5,301	6,161	12	2	21,205	20,949
Maryland	26,033	28,371	19,219	20,245	323,559	355,412
New Jersey	72,148	63,791	100,016	81,076	488,531	532,936
New York	10,672	7,041	10,936	13,882	915,846	924,782
Pennsylvania	65,595	37,836	15,648	16,467	1,195,799	1,170,105
Subdistrict IC Total	310,191	399,895	277,802	303,498	4,253,721	4,450,252
Florida	86,824	103,973	154,038	166,043	1,003,655	^E 962,504
Georgia	65,935	76,841	14,147	10,399	1,107,982	1,345,755
North Carolina	69,573	72,825	16,722	19,332	774,747	794,837
South Carolina	6,624	11,176	3,759	10,878	460,194	458,312
Virginia	67,787	128,748	28,866	26,093	688,044	757,666
West Virginia	13,449	6,332	60,271	70,752	219,099	131,178
PAD District II Total	1,468,768	1,412,083	427,962	477,296	8,572,145	9,125,173
Illinois	182,919	200,798	50,558	46,912	^E 845,546	884,696
Indiana	145,163	127,691	15,812	16,934	976,069	1,036,200
Iowa	60,472	66,190	6,542	7,011	409,958	458,660
Kansas	221,920	121,763	—	—	343,175	352,872
Kentucky	116,553	104,310	150,574	146,330	581,148	587,549
Michigan	62,233	43,626	3,778	4,753	735,953	772,262
Minnesota	114,729	71,590	5,311	4,835	453,926	482,131
Missouri	21,326	22,782	88,875	163,421	737,909	767,383
Nebraska	111,954	165,708	—	49	312,127	336,764
North Dakota	46,120	46,467	—	—	131,234	135,043
Ohio	130,977	135,184	7,771	8,447	1,100,569	1,275,402
Oklahoma	100,183	152,129	527	147	496,860	541,337
South Dakota	4,797	1,957	—	—	135,905	141,728
Tennessee	95,440	96,740	94,976	76,352	728,024	754,982
Wisconsin	53,984	55,149	3,239	2,103	583,742	598,164
PAD District III Total	524,890	554,336	748,086	946,627	4,089,230	4,522,044
Alabama	41,458	44,929	49,575	55,758	691,273	646,567
Arkansas	49,196	57,333	2,446	2,830	488,499	495,380
Louisiana	17,826	23,771	444,237	608,963	481,346	508,414
Mississippi	22,317	21,128	19,978	23,075	374,214	400,100
New Mexico	14,375	19,045	—	—	107,055	314,590
Texas	379,717	388,130	231,850	256,001	1,946,843	2,156,993
PAD District IV Total	377,048	450,930	60	339	1,117,000	1,094,512
Colorado	115,691	130,661	—	—	276,585	273,207
Idaho	32,537	37,901	37	314	167,819	187,828
Montana	87,387	93,160	4	5	158,451	140,625
Utah	34,874	53,266	20	20	258,135	255,192
Wyoming	106,559	135,942	—	—	256,010	237,660
PAD District V Total	302,617	281,141	302,612	239,877	3,698,734	3,844,811
Alaska	3,118	2,959	103,629	94,617	109,740	34,918
Arizona	3,241	2,465	14	11	483,186	543,643
California	166,057	166,165	73,101	65,966	2,089,687	2,115,704
Hawaii	—	—	58,171	15,613	27,080	40,447
Nevada	11,132	5,452	—	—	^E 172,332	^E 244,609
Oregon	65,064	54,651	15,467	15,551	^E 353,384	386,239
Washington	54,005	49,448	52,230	48,119	463,325	479,251

See footnotes at end of table.

Table 16. Adjusted Sales of Distillate Fuel Oil by End Use, 1995 and 1996 (Continued)

(Thousand Gallons)

Destination	Military		Off-Highway		All Other		Total	
	1995	1996	1995	1996	1995	1996	1995	1996
U.S. Total	368,219	371,093	1,939,133	2,063,538	-	-	49,157,598	51,730,518
PAD District I Total	90,954	80,141	562,165	612,822	-	-	18,566,604	19,581,618
Subdistrict IA Total	18,180	11,062	65,115	74,001	-	-	3,795,357	3,882,213
Connecticut	608	3,869	9,310	9,472	-	-	879,564	945,920
Maine	2,512	3,530	19,683	26,279	-	-	610,046	639,953
Massachusetts	8,778	1,431	20,892	23,609	-	-	1,526,007	1,461,278
New Hampshire	1,190	52	8,134	9,266	-	-	310,744	334,487
Rhode Island	4,841	1,895	3,824	3,032	-	-	245,259	255,002
Vermont	249	286	3,272	2,342	-	-	223,737	245,572
Subdistrict IB Total	23,416	37,195	150,411	169,667	-	-	7,890,871	8,333,782
Delaware	1,106	1,328	4,121	6,979	-	-	139,397	160,039
District of Columbia	968	2,008	464	320	-	-	97,189	100,984
Maryland	12,463	18,014	20,615	24,404	-	-	805,665	921,013
New Jersey	750	1,934	25,650	30,187	-	-	1,377,377	1,496,457
New York	1,947	2,354	40,491	47,685	-	-	2,878,395	3,043,983
Pennsylvania	6,183	11,556	59,070	60,093	-	-	2,592,848	2,611,306
Subdistrict IC Total	49,359	31,883	346,640	369,153	-	-	6,880,376	7,365,623
Florida	11,092	7,268	112,395	118,931	-	-	1,674,266	1,650,490
Georgia	9,986	2,978	69,521	71,741	-	-	1,483,349	1,752,673
North Carolina	7,846	3,869	74,783	65,288	-	-	1,339,467	1,402,377
South Carolina	1,152	1,943	37,210	39,049	-	-	631,002	652,981
Virginia	18,910	15,260	40,660	64,299	-	-	1,278,162	1,514,881
West Virginia	373	564	12,070	9,845	-	-	474,131	392,221
PAD District II Total	16,488	21,826	616,327	636,243	-	-	15,238,104	15,649,116
Illinois	436	1,400	66,331	70,169	-	-	1,581,339	1,601,145
Indiana	671	1,856	32,352	33,283	-	-	1,488,418	1,502,795
Iowa	205	223	52,708	41,085	-	-	789,789	848,848
Kansas	1,093	924	32,604	28,009	-	-	813,975	711,727
Kentucky	2,223	1,380	41,417	44,123	-	-	1,221,094	1,187,407
Michigan	362	1,535	51,414	57,295	-	-	1,230,538	1,253,082
Minnesota	266	670	50,175	59,743	-	-	1,032,553	1,036,628
Missouri	2,780	2,747	47,704	43,460	-	-	1,068,260	1,166,996
Nebraska	407	465	18,814	17,652	-	-	653,162	715,274
North Dakota	1,265	1,837	8,500	5,911	-	-	359,435	356,628
Ohio	882	755	75,608	72,424	-	-	1,787,557	1,898,980
Oklahoma	1,566	1,758	22,373	32,587	-	-	743,335	857,424
South Dakota	913	1,677	9,188	8,416	-	-	278,398	281,154
Tennessee	1,250	1,375	67,103	61,492	-	-	1,142,281	1,156,489
Wisconsin	2,169	3,165	40,037	60,595	-	-	1,047,969	1,074,538
PAD District III Total	150,648	158,654	340,094	401,197	-	-	7,296,702	8,250,606
Alabama	5,213	2,622	57,027	94,290	-	-	971,354	971,175
Arkansas	774	1,425	30,468	22,780	-	-	701,959	698,514
Louisiana	24,663	34,426	65,733	100,748	-	-	1,380,197	1,661,294
Mississippi	4,695	3,796	30,207	38,337	-	-	568,730	609,523
New Mexico	1,164	1,845	14,135	17,181	-	-	198,606	418,272
Texas	114,139	114,539	142,524	127,861	-	-	3,475,855	3,891,829
PAD District IV Total	2,193	5,788	129,014	171,440	-	-	2,145,906	2,370,438
Colorado	1,506	1,113	43,013	55,310	-	-	564,238	622,960
Idaho	84	673	25,479	32,424	-	-	351,628	397,704
Montana	365	269	16,760	34,602	-	-	372,993	410,918
Utah	222	3,706	26,825	25,595	-	-	384,416	416,842
Wyoming	16	26	16,938	23,509	-	-	472,631	522,014
PAD District V Total	107,936	104,684	291,532	241,836	-	-	5,910,282	5,878,740
Alaska	3,947	3,612	28,567	21,892	-	-	447,415	370,986
Arizona	699	709	27,681	25,661	-	-	612,058	682,956
California	90,434	62,147	119,480	107,976	-	-	2,889,039	2,831,157
Hawaii	6,029	12,912	9,515	5,067	-	-	228,388	202,203
Nevada	811	967	10,036	12,016	-	-	323,119	400,068
Oregon	850	1,548	48,118	23,523	-	-	618,427	592,443
Washington	5,165	22,790	48,135	45,702	-	-	791,837	798,927

^E Estimated data. Florida's 1996 estimate is based on seven months of data. Nevada's 1996 estimate is based on eight months of data. Illinois' and Nevada's 1995 data are based on eleven months of data. Oregon's 1995 and Connecticut's 1996 data are a Federal Highway Administration estimate.

Dashes (-) = No data reported.

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

Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 1995 and 1996.

• 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, 1995 and 1996

(Thousand Gallons)

Destination	Commercial		Industrial		Oil Company		Electric Utility	
	1995	1996	1995	1996	1995	1996	1995	1996
U.S. Total	1,007,962	944,717	2,160,606	2,127,457	231,022	170,471	3,164,462	3,925,629
PAD District I Total	979,265	909,145	1,573,973	1,624,561	110,443	103,635	2,674,215	3,335,296
Subdistrict IA Total	219,050	198,265	500,146	512,157	226	837	616,928	858,167
Connecticut	20,030	19,679	32,844	41,475	226	247	88,568	382,237
Maine	16,540	21,986	330,119	333,976	-	-	55,941	55,163
Massachusetts	137,470	105,221	65,156	72,583	-	590	379,955	371,371
New Hampshire	19,518	19,356	48,895	41,421	-	-	91,167	49,397
Rhode Island	22,333	28,887	16,672	13,622	-	-	1,297	-
Vermont	3,160	3,137	6,460	9,081	-	-	-	-
Subdistrict IB Total	734,333	684,050	297,021	340,468	109,528	102,406	934,627	1,063,928
Delaware	5,887	9,581	31,465	39,767	38,831	23,437	74,467	62,664
District of Columbia	5,827	4,148	7	10	-	-	-	-
Maryland	5,332	4,656	31,941	58,270	688	665	82,388	69,658
New Jersey	55,431	55,465	82,445	69,503	2,691	2,383	81,105	131,149
New York	607,151	553,766	87,863	105,418	1,253	909	567,114	655,673
Pennsylvania	54,705	56,434	63,300	67,500	66,065	75,012	129,553	144,785
Subdistrict IC Total	25,881	26,829	776,806	771,936	689	391	1,122,659	1,413,201
Florida	6,171	4,275	219,887	161,507	65	79	1,093,117	1,370,198
Georgia	515	457	116,400	149,144	-	-	1,588	3,751
North Carolina	8,294	9,510	258,785	271,839	-	-	-	-
South Carolina	1,711	1,621	94,314	97,068	184	147	-	-
Virginia	9,190	10,966	78,617	77,317	440	165	27,955	39,253
West Virginia	-	-	8,803	15,061	-	-	-	-
PAD District II Total	15,886	22,520	221,377	260,044	70,015	29,256	84,128	88,480
Illinois	2,011	8,208	5,031	21,581	11,204	4,051	40,518	41,217
Indiana	1,421	587	38,181	44,230	31,995	-	3,466	-
Iowa	-	35	4,118	4,036	-	-	-	-
Kansas	527	77	821	5,740	-	-	-	-
Kentucky	-	7	3,868	6,767	5,144	3,748	-	-
Michigan	215	198	16,904	15,296	1,044	2,658	32,391	36,294
Minnesota	4,993	5,988	14,568	18,722	9,421	9,122	-	3,117
Missouri	46	244	14,296	13,359	-	-	6,613	7,299
Nebraska	27	-	5,381	7,244	-	-	-	-
North Dakota	846	252	2,833	5,604	3,659	-	-	5
Ohio	203	74	57,582	64,457	3,402	4,812	1,140	549
Oklahoma	12	-	14,739	11,194	-	-	-	-
South Dakota	109	-	503	1,731	-	-	-	-
Tennessee	636	1,199	15,297	7,704	195	115	-	-
Wisconsin	4,839	5,651	27,256	32,380	3,952	4,750	-	-
PAD District III Total	119	60	170,352	171,588	210	-	449	72,869
Alabama	118	25	22,565	30,520	-	-	-	-
Arkansas	-	9	9,136	5,005	-	-	-	4,422
Louisiana	-	26	17,109	32,246	-	-	422	5,175
Mississippi	-	-	3,608	4,865	-	-	27	63,233
New Mexico	-	-	8,001	8,389	-	-	-	-
Texas	-	-	109,932	90,565	210	-	-	39
PAD District IV Total	927	881	10,985	3,725	12,870	7,624	302	-
Colorado	-	-	7	171	-	-	-	-
Idaho	195	182	101	98	-	-	237	-
Montana	147	108	919	101	9,512	7,624	-	-
Utah	572	585	9,215	3,143	3,357	-	-	-
Wyoming	13	6	743	213	-	-	64	-
PAD District V Total	11,767	12,112	183,919	67,539	37,484	29,956	405,369	428,983
Alaska	-	-	16,800	16,756	-	-	-	-
Arizona	-	208	3,040	3,443	46	-	-	-
California	179	529	65,537	11,687	39	1,453	-	-
Hawaii	2,790	545	8,034	11,056	36,045	27,752	405,268	428,912
Nevada	-	-	48,426	5,465	44	116	-	-
Oregon	3,883	3,575	14,534	5,784	-	-	101	71
Washington	4,915	7,255	27,547	13,347	1,310	635	-	-

See footnotes at end of table.

Table 17. Adjusted Sales of Residual Fuel Oil by End Use, 1995 and 1996 (Continued)

(Thousand Gallons)

Destination	Vessel Bunkering		Military		All Other		Total	
	1995	1996	1995	1996	1995	1996	1995	1996
U.S. Total	6,431,238	5,804,977	55,614	57,249	7,359	10,542	13,058,262	13,041,042
PAD District I Total	1,299,435	1,360,439	43,676	40,120	5,002	7,792	6,686,008	7,380,987
Subdistrict IA Total	10,652	86,070	7,993	11,212	1,244	354	1,356,240	1,667,063
Connecticut	-	177	514	1,376	741	-	142,923	445,191
Maine	4,117	2,055	5,013	6,676	358	354	412,089	420,210
Massachusetts	6,490	83,533	2,432	3,160	144	-	591,648	636,458
New Hampshire	-	212	-	-	-	-	159,580	110,385
Rhode Island	45	92	34	-	-	-	40,381	42,601
Vermont	-	-	-	-	-	-	9,619	12,218
Subdistrict IB Total	744,913	788,155	20,898	14,018	6	-	2,841,327	2,993,025
Delaware	44,207	85,645	1,933	806	6	-	196,796	221,901
District of Columbia	-	-	-	-	-	-	5,833	4,158
Maryland	31,241	25,976	10,466	6,731	-	-	162,056	165,955
New Jersey	357,584	255,860	2,941	4,289	-	-	582,198	518,649
New York	100,276	277,974	3,545	890	-	-	1,367,202	1,594,629
Pennsylvania	211,605	142,699	2,013	1,302	-	-	527,241	487,732
Subdistrict IC Total	543,869	486,214	14,785	14,890	3,752	7,438	2,488,441	2,720,900
Florida	375,361	350,235	2,468	1,581	3,118	7,385	1,700,189	1,895,260
Georgia	61,967	53,561	-	-	-	-	180,470	206,913
North Carolina	6,511	7,572	6,880	6,635	68	53	280,538	295,610
South Carolina	17,769	25,732	1,581	2,920	39	-	115,598	127,487
Virginia	82,261	48,940	3,856	3,754	525	-	202,843	180,395
West Virginia	-	174	-	-	-	-	8,803	15,235
PAD District II Total	20,505	24,428	338	657	185	-	412,434	425,385
Illinois	1,248	1,286	338	21	38	-	60,389	76,363
Indiana	10,517	12,674	-	-	-	-	85,580	57,491
Iowa	-	-	-	-	8	-	4,126	4,070
Kansas	-	-	-	-	-	-	1,349	5,817
Kentucky	-	-	-	-	-	-	9,012	10,522
Michigan	4,209	5,196	-	122	43	-	54,807	59,763
Minnesota	-	-	-	-	-	-	28,982	36,948
Missouri	945	247	-	514	-	-	21,900	21,663
Nebraska	-	-	-	-	3	-	5,411	7,244
North Dakota	-	-	-	-	-	-	7,338	5,861
Ohio	2,519	3,570	-	-	-	-	64,847	73,462
Oklahoma	-	-	-	-	-	-	14,751	11,194
South Dakota	-	-	-	-	-	-	611	1,731
Tennessee	84	90	-	-	-	-	16,211	9,109
Wisconsin	981	1,365	-	-	92	-	37,119	44,146
PAD District III Total	2,139,498	2,050,735	1,958	4,767	-	31	2,312,585	2,300,050
Alabama	116,608	105,997	-	-	-	-	139,291	136,541
Arkansas	-	-	-	-	-	-	9,136	9,436
Louisiana	1,013,170	1,101,644	1,958	1,881	-	-	1,032,660	1,140,972
Mississippi	112,835	72,515	-	-	-	-	116,470	140,613
New Mexico	-	-	-	-	-	31	8,001	8,420
Texas	896,885	770,579	-	2,886	-	-	1,007,027	864,069
PAD District IV Total	-	-	-	8	228	71	25,312	12,309
Colorado	-	-	-	8	4	4	11	182
Idaho	-	-	-	-	31	5	564	285
Montana	-	-	-	-	-	-	10,578	7,833
Utah	-	-	-	-	44	24	13,188	3,752
Wyoming	-	-	-	-	150	38	970	257
PAD District V Total	2,971,800	2,369,375	9,641	11,697	1,944	2,649	3,621,924	2,922,311
Alaska	5,106	152	-	-	-	-	21,907	16,908
Arizona	-	-	-	-	-	-	3,086	3,651
California	1,964,209	1,680,188	8,530	7,509	114	28	2,038,608	1,701,395
Hawaii	119,788	26,931	131	3,460	1,806	2,621	573,863	501,276
Nevada	-	-	-	-	-	-	48,470	5,582
Oregon	141,344	131,310	980	-	24	-	160,866	140,740
Washington	741,353	530,794	-	729	-	-	775,124	552,760

Dashes (-) = No data reported.

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

Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 1995 and 1996.

• 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, 1995 and 1996, (DOE/EIA-0340(95)/1 - (96)/1).

Table 18. Adjusted Sales of Kerosene by End Use, 1995 and 1996

(Thousand Gallons)

Destination	Residential		Commercial		Industrial	
	1995	1996	1995	1996	1995	1996
U.S. Total	550,336	657,636	163,716	155,792	86,902	102,322
PAD District I Total	440,639	530,407	132,354	116,949	59,357	65,977
Subdistrict IA Total	78,901	95,280	16,254	13,593	7,148	2,962
Connecticut	5,127	5,217	1,144	3,012	3,904	1,062
Maine	45,725	57,548	6,783	6,222	933	453
Massachusetts	5,463	6,219	4,615	1,965	1,365	474
New Hampshire	13,901	16,486	1,834	1,746	603	435
Rhode Island	1,123	1,268	1,278	82	284	119
Vermont	7,563	8,542	600	566	60	420
Subdistrict IB Total	176,460	206,836	90,240	75,937	40,764	47,702
Delaware	5,037	7,574	99	260	10	2,017
District of Columbia	265	259	5,402	4,251	—	—
Maryland	22,450	24,925	8,807	6,324	1,520	1,305
New Jersey	9,926	11,912	23,761	10,216	17,257	13,030
New York	52,099	60,898	30,006	31,554	16,640	27,225
Pennsylvania	86,682	101,268	22,166	23,333	5,337	4,125
Subdistrict IC Total	185,278	228,291	25,859	27,418	11,444	15,312
Florida	8,846	11,067	4,002	4,445	210	1,230
Georgia	5,278	6,047	1,477	1,311	1,053	1,379
North Carolina	88,104	106,932	6,178	7,496	3,429	5,399
South Carolina	19,751	23,570	1,094	977	2,849	3,417
Virginia	51,244	64,847	11,566	11,651	1,838	1,485
West Virginia	12,055	15,829	1,542	1,538	2,065	2,401
PAD District II Total	93,893	107,822	25,255	30,506	15,373	19,453
Illinois	3,521	4,020	3,375	2,826	3,991	4,917
Indiana	9,016	12,096	2,947	2,887	1,221	1,903
Iowa	1,032	1,247	106	184	205	118
Kansas	533	808	236	208	90	115
Kentucky	17,428	18,410	4,925	4,649	2,813	3,092
Michigan	9,772	9,646	4,285	6,278	894	937
Minnesota	2,097	2,558	979	1,123	106	97
Missouri	1,357	2,368	432	1,138	111	1,034
Nebraska	157	159	168	167	27	44
North Dakota	154	224	54	74	2	3
Ohio	31,432	34,377	3,727	6,507	4,355	5,204
Oklahoma	156	843	216	210	104	181
South Dakota	156	216	30	25	3	8
Tennessee	15,644	19,139	3,362	3,722	1,110	1,357
Wisconsin	1,439	1,711	412	510	341	444
PAD District III Total	5,758	6,706	3,241	2,768	8,889	10,679
Alabama	2,789	2,675	402	392	1,739	1,988
Arkansas	584	493	190	222	422	299
Louisiana	380	707	250	313	796	971
Mississippi	847	941	312	233	724	796
New Mexico	235	274	147	31	220	331
Texas	923	1,616	1,940	1,577	4,987	6,293
PAD District IV Total	1,632	1,626	441	585	1,022	1,158
Colorado	836	868	190	245	55	62
Idaho	627	526	128	153	4	7
Montana	21	28	11	20	3	3
Utah	121	176	45	119	50	73
Wyoming	27	29	66	49	909	1,013
PAD District V Total	8,415	11,075	2,426	4,984	2,263	5,055
Alaska	13	12	20	6	5	4
Arizona	85	118	49	102	18	47
California	3,397	4,343	1,122	2,889	1,782	4,404
Hawaii	1	1	5	2	14	15
Nevada	240	263	53	64	53	55
Oregon	1,072	1,700	594	1,580	103	205
Washington	3,607	4,640	582	342	287	326

See footnotes at end of table.

Table 18. Adjusted Sales of Kerosene by End Use, 1995 and 1996 (Continued)

(Thousand Gallons)

Destination	Farm		All Other		Total	
	1995	1996	1995	1996	1995	1996
U.S. Total	19,919	26,017	7,576	7,223	828,450	948,990
PAD District I Total	7,629	9,408	3,476	3,008	643,455	725,749
Subdistrict IA Total	685	974	413	236	103,401	113,046
Connecticut	20	9	58	-	10,254	9,300
Maine	220	239	146	40	53,806	64,502
Massachusetts	65	106	51	26	11,559	8,788
New Hampshire	105	186	86	81	16,529	18,934
Rhode Island	-	-	-	1	2,685	1,470
Vermont	274	434	72	88	8,569	10,050
Subdistrict IB Total	1,707	2,702	1,800	2,244	310,972	335,421
Delaware	44	35	151	1	5,341	9,886
District of Columbia	-	-	-	-	5,667	4,510
Maryland	728	875	157	265	33,662	33,693
New Jersey	7	38	126	140	51,077	35,337
New York	287	1,099	255	337	99,287	121,113
Pennsylvania	641	655	1,111	1,501	115,938	130,882
Subdistrict IC Total	5,238	5,732	1,262	528	229,082	277,282
Florida	80	140	18	8	13,156	16,891
Georgia	172	2	227	159	8,206	8,898
North Carolina	781	1,433	619	105	99,111	121,364
South Carolina	217	279	182	11	24,094	28,254
Virginia	3,246	3,239	56	59	67,951	81,282
West Virginia	743	639	160	186	16,564	20,593
PAD District II Total	10,186	14,878	2,603	2,916	147,310	175,575
Illinois	881	4,303	547	666	12,315	16,733
Indiana	498	1,331	182	296	13,865	18,513
Iowa	1,499	691	37	23	2,879	2,262
Kansas	222	397	115	21	1,197	1,549
Kentucky	1,305	1,729	724	273	27,194	28,152
Michigan	233	382	205	429	15,389	17,672
Minnesota	1,167	1,190	14	191	4,362	5,158
Missouri	237	302	95	49	2,231	4,892
Nebraska	249	315	101	125	702	810
North Dakota	8	7	6	15	224	322
Ohio	3,161	3,488	350	592	43,025	50,167
Oklahoma	82	62	65	55	623	1,351
South Dakota	67	99	3	15	259	364
Tennessee	374	264	74	104	20,564	24,586
Wisconsin	204	318	84	62	2,480	3,046
PAD District III Total	425	516	837	517	19,149	21,185
Alabama	9	8	135	19	5,075	5,082
Arkansas	84	52	349	34	1,629	1,099
Louisiana	17	69	111	214	1,554	2,274
Mississippi	24	84	67	9	1,974	2,064
New Mexico	24	13	52	59	678	709
Texas	267	290	122	182	8,240	9,958
PAD District IV Total	175	186	101	126	3,369	3,681
Colorado	84	120	58	71	1,223	1,366
Idaho	35	35	34	5	828	726
Montana	4	3	-	1	40	54
Utah	52	20	2	7	270	394
Wyoming	-	9	6	41	1,008	1,141
PAD District V Total	1,504	1,029	560	657	15,167	22,801
Alaska	-	-	-	1	37	23
Arizona	4	5	2	17	159	288
California	308	359	267	365	6,877	12,360
Hawaii	1	3	-	-	22	22
Nevada	12	15	11	3	370	399
Oregon	605	71	248	182	2,623	3,737
Washington	574	576	31	89	5,081	5,972

Dashes (-) = No data reported.

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

Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 1995 and 1996.

• Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1995 and 1996, (DOE/EIA-0340(95)/1 - (96)/1).

Table 19. Adjusted Sales for Residential Use: Distillate Fuel Oil and Kerosene, 1996
(Thousand Gallons)

Destination	Distillate Fuel Oil			Kerosene
	No. 1	No. 2	Total	
U.S. Total	185,326	6,522,388	6,707,714	657,636
PAD District I Total	31,859	5,578,405	5,610,264	530,407
Subdistrict IA Total	13,598	2,100,664	2,114,262	95,280
Connecticut	2,428	560,309	562,737	5,217
Maine	2,759	319,007	321,766	57,548
Massachusetts	7,533	775,106	782,639	6,219
New Hampshire	879	197,011	197,890	16,486
Rhode Island	-	148,306	148,306	1,268
Vermont	-	100,925	100,925	8,542
Subdistrict IB Total	15,165	2,982,039	2,997,204	206,836
Delaware	-	46,513	46,513	7,574
District of Columbia	-	12,879	12,879	259
Maryland	517	247,186	247,703	24,925
New Jersey	54	518,637	518,691	11,912
New York	-	1,288,927	1,288,927	60,898
Pennsylvania	14,594	867,897	882,491	101,268
Subdistrict IC Total	3,096	495,702	498,798	228,291
Florida	21	9,062	9,083	11,067
Georgia	64	6,366	6,430	6,047
North Carolina	162	181,291	181,453	106,932
South Carolina	1,063	29,281	30,344	23,570
Virginia	1,340	244,602	245,942	64,847
West Virginia	446	25,101	25,547	15,829
PAD District II Total	107,786	777,453	885,239	107,822
Illinois	5,431	26,350	31,781	4,020
Indiana	9,885	51,770	61,655	12,096
Iowa	6,171	26,805	32,976	1,247
Kansas	401	339	740	808
Kentucky	1,743	26,477	28,220	18,410
Michigan	14,521	149,868	164,389	9,646
Minnesota	32,121	114,904	147,025	2,558
Missouri	2,289	11,790	14,079	2,368
Nebraska	1,799	3,020	4,819	159
North Dakota	7,252	27,590	34,842	224
Ohio	3,330	157,577	160,907	34,377
Oklahoma	828	164	992	843
South Dakota	7,008	19,539	26,547	216
Tennessee	1,011	10,434	11,445	19,139
Wisconsin	13,996	150,828	164,824	1,711
PAD District III Total	81	475	556	6,706
Alabama	40	331	371	2,675
Arkansas	-	33	33	493
Louisiana	20	4	24	707
Mississippi	1	22	23	941
New Mexico	20	83	103	274
Texas	-	3	3	1,616
PAD District IV Total	17,584	31,249	48,833	1,626
Colorado	262	2,265	2,527	868
Idaho	4,055	18,057	22,112	526
Montana	12,482	5,939	18,421	28
Utah	465	3,752	4,217	176
Wyoming	319	1,236	1,555	29
PAD District V Total	28,015	134,806	162,821	11,075
Alaska	22,304	32,837	55,141	12
Arizona	20	256	276	118
California	205	4,022	4,227	4,343
Hawaii	-	7	7	1
Nevada	279	5,396	5,675	263
Oregon	2,215	32,276	34,491	1,700
Washington	2,994	60,012	63,006	4,640

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.

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

Table 20. Adjusted Sales for Commercial Use: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 1996
(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	130,221	1,503,538	1,000,648	460,345	2,964,532	338,803	3,433,555	944,717	155,792
PAD District I Total	21,815	1,366,539	456,702	200,216	2,023,457	337,752	2,383,023	909,145	116,949
Subdistrict IA Total	3,446	422,984	84,221	20,767	527,971	62,863	594,280	198,265	13,593
Connecticut	120	97,372	18,969	943	117,284	8,689	126,094	19,679	3,012
Maine	489	81,254	15,718	1,893	98,865	3,945	103,298	21,986	6,222
Massachusetts	584	163,176	24,958	12,161	200,294	39,386	240,265	105,221	1,965
New Hampshire	281	37,802	12,047	966	50,815	5,178	56,274	19,356	1,746
Rhode Island	1,972	20,161	6,894	1,548	28,603	3,871	34,445	28,887	82
Vermont	-	23,218	5,635	3,257	32,110	1,794	33,904	3,137	566
Subdistrict IB Total	16,733	796,288	196,118	52,309	1,044,714	270,142	1,331,590	684,050	75,937
Delaware	-	10,684	2,267	1,481	14,431	1,884	16,316	9,581	260
District of Columbia	-	27,548	5,785	1,026	34,359	6,605	40,964	4,148	4,251
Maryland	505	89,481	29,748	17,637	136,865	1,996	139,366	4,656	6,324
New Jersey	14,197	127,163	32,324	4,735	164,223	32,312	210,732	55,465	10,216
New York	1,833	382,682	51,913	5,281	439,876	220,284	661,993	553,766	31,554
Pennsylvania	197	158,731	74,081	22,149	254,961	7,062	262,220	56,434	23,333
Subdistrict IC Total	1,636	147,267	176,363	127,140	450,771	4,747	457,154	26,829	27,418
Florida	712	5,399	63,797	20,309	89,506	161	90,379	4,275	4,445
Georgia	259	5,655	31,310	12,044	49,009	-	49,268	457	1,311
North Carolina	32	48,826	22,720	46,128	117,674	2,661	120,367	9,510	7,496
South Carolina	4	5,038	21,724	14,310	41,072	-	41,076	1,621	977
Virginia	83	79,402	31,352	32,170	142,924	1,823	144,831	10,966	11,651
West Virginia	546	2,947	5,460	2,179	10,586	101	11,234	-	1,538
PAD District II Total	69,155	107,647	244,726	142,886	495,259	722	565,136	22,520	30,506
Illinois	30,362	14,545	18,238	14,223	47,006	78	77,447	8,208	2,826
Indiana	2,781	12,621	13,973	11,719	38,313	3	41,097	587	2,887
Iowa	4,164	2,180	7,377	1,454	11,012	-	15,175	35	184
Kansas	3,393	289	15,482	4,442	20,212	-	23,606	77	208
Kentucky	340	4,528	26,634	19,058	50,219	265	50,824	7	4,649
Michigan	11,093	13,538	37,829	12,776	64,144	-	75,236	198	6,278
Minnesota	6,677	17,323	12,508	6,670	36,502	-	43,179	5,988	1,123
Missouri	2,840	4,197	23,543	25,149	52,890	36	55,765	244	1,138
Nebraska	997	606	6,562	1,651	8,819	-	9,816	-	167
North Dakota	1,288	4,118	2,404	1,072	7,593	-	8,881	252	74
Ohio	128	9,940	25,233	21,332	56,505	245	56,879	74	6,507
Oklahoma	379	-	14,698	1,235	15,933	-	16,312	-	210
South Dakota	1,467	4,836	3,817	558	9,211	-	10,679	-	25
Tennessee	144	2,510	22,056	13,848	38,414	25	38,583	1,199	3,722
Wisconsin	3,101	16,415	14,371	7,701	38,486	70	41,657	5,651	510
PAD District III Total	3,340	6,506	90,140	56,187	152,832	-	156,172	60	2,768
Alabama	19	1,775	11,577	7,138	20,490	-	20,509	25	392
Arkansas	68	5	5,882	4,769	10,656	-	10,724	9	222
Louisiana	135	165	2,772	1,885	4,822	-	4,958	26	313
Mississippi	21	483	8,441	5,710	14,634	-	14,654	-	233
New Mexico	191	55	5,123	1,114	6,292	-	6,483	-	31
Texas	2,907	4,022	56,345	35,570	95,938	-	98,844	-	1,577
PAD District IV Total	15,927	7,545	78,827	13,992	100,364	-	116,291	881	585
Colorado	7,826	1,279	30,647	1,708	33,634	-	41,460	-	245
Idaho	1,277	1,764	15,365	7,327	24,456	-	25,733	182	153
Montana	1,582	1,972	9,195	198	11,365	-	12,947	108	20
Utah	1,380	766	14,680	4,366	19,813	-	21,193	585	119
Wyoming	3,863	1,764	8,939	392	11,095	-	14,958	6	49
PAD District V Total	19,984	15,302	130,254	47,065	192,621	329	212,933	12,112	4,984
Alaska	14,475	9,577	29	9,383	18,989	321	33,786	-	6
Arizona	92	8	14,139	2,686	16,833	-	16,925	208	102
California	455	1,603	60,896	10,270	72,768	-	73,223	529	2,889
Hawaii	3	92	4,352	1,953	6,397	-	6,400	545	2
Nevada	727	943	22,450	4,122	27,516	-	28,243	-	64
Oregon	1,532	1,657	12,202	10,663	24,522	7	26,061	3,575	1,580
Washington	2,699	1,422	16,186	7,988	25,596	-	28,295	7,255	342

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.

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

Table 21. Adjusted Sales for Industrial Use: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 1996
(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	57,658	442,883	541,074	1,004,883	1,988,840	60,692	2,107,190	2,127,457	102,322
PAD District I Total	3,025	268,337	94,902	323,289	686,528	56,562	746,115	1,624,561	65,977
Subdistrict IA Total	64	60,286	10,234	4,612	75,132	20,597	95,792	512,157	2,962
Connecticut	-	11,603	733	131	12,466	9,778	22,245	41,475	1,062
Maine	64	23,381	1,828	477	25,687	1,171	26,922	333,976	453
Massachusetts	-	13,926	2,928	2,469	19,323	4,735	24,058	72,583	474
New Hampshire	-	3,518	1,486	467	5,471	1,118	6,589	41,421	435
Rhode Island	-	3,402	2,650	613	6,665	2,626	9,291	13,622	119
Vermont	-	4,456	608	455	5,519	1,168	6,687	9,081	420
Subdistrict IB Total	788	106,558	40,975	56,231	203,764	27,722	232,274	340,468	47,702
Delaware	-	1,646	3,636	2,795	8,077	113	8,190	39,767	2,017
District of Columbia	-	316	133	-	448	-	448	10	-
Maryland	596	15,794	10,658	8,159	34,611	1,775	36,982	58,270	1,305
New Jersey	2	26,260	991	4,445	31,697	11,587	43,285	69,503	13,030
New York	-	32,643	2,801	6,927	42,371	5,895	48,266	105,418	27,225
Pennsylvania	189	29,899	22,756	33,905	86,560	8,352	95,102	67,500	4,125
Subdistrict IC Total	2,173	101,493	43,693	262,447	407,633	8,243	418,049	771,936	15,312
Florida	14	5,261	6,495	29,843	41,599	4,823	46,436	161,507	1,230
Georgia	-	12,340	6,603	41,136	60,079	406	60,485	149,144	1,379
North Carolina	-	37,655	12,679	34,772	85,106	2,077	87,182	271,839	5,399
South Carolina	-	11,037	4,908	10,730	26,674	482	27,157	97,068	3,417
Virginia	-	22,360	6,737	48,640	77,737	443	78,180	77,317	1,485
West Virginia	2,159	12,841	6,270	97,326	116,437	12	118,609	15,061	2,401
PAD District II Total	25,623	150,186	118,300	352,830	621,316	2,865	649,804	260,044	19,453
Illinois	1,488	12,368	8,852	30,061	51,281	50	52,819	21,581	4,917
Indiana	2,074	27,517	21,401	18,808	67,726	205	70,004	44,230	1,903
Iowa	1,763	1,538	14,470	2,826	18,834	-	20,597	4,036	118
Kansas	499	853	5,565	3,670	10,088	15	10,601	5,740	115
Kentucky	207	9,632	12,106	160,811	182,549	653	183,408	6,767	3,092
Michigan	524	13,384	10,790	18,580	42,754	-	43,278	15,296	937
Minnesota	8,350	19,942	3,341	7,191	30,474	83	38,907	18,722	97
Missouri	2,212	10,423	11,931	8,884	31,239	346	33,797	13,359	1,034
Nebraska	554	157	989	2,415	3,561	-	4,115	7,244	44
North Dakota	993	3,642	1,159	888	5,690	-	6,683	5,604	3
Ohio	114	13,312	8,073	51,147	72,532	418	73,064	64,457	5,204
Oklahoma	-	1,776	760	6,363	8,899	-	8,899	11,194	181
South Dakota	969	1,158	6,093	1,166	8,417	268	9,654	1,731	8
Tennessee	-	6,272	6,480	26,419	39,172	784	39,956	7,704	1,357
Wisconsin	5,875	28,211	6,291	13,601	48,102	46	54,023	32,380	444
PAD District III Total	2,830	11,650	80,505	151,782	243,937	51	246,818	171,588	10,679
Alabama	1	2,779	9,666	40,427	52,871	-	52,872	30,520	1,988
Arkansas	-	46	1,923	7,624	9,593	-	9,593	5,005	299
Louisiana	-	4,808	1,757	14,247	20,812	-	20,812	32,246	971
Mississippi	-	2,758	7,436	11,814	22,009	51	22,060	4,865	796
New Mexico	1,744	61	14,801	8,996	23,857	-	25,601	8,389	331
Texas	1,085	1,198	44,923	68,673	114,795	-	115,881	90,565	6,293
PAD District IV Total	16,414	2,894	125,676	30,122	158,692	115	175,221	3,725	1,158
Colorado	2,119	-	12,847	4,133	16,981	-	19,100	171	62
Idaho	2,715	192	11,075	16,008	27,275	-	29,990	98	7
Montana	3,997	71	18,804	1,455	20,330	-	24,327	101	3
Utah	1,408	733	16,805	7,757	25,295	11	26,713	3,143	73
Wyoming	6,175	1,898	66,146	768	68,812	105	75,092	213	1,013
PAD District V Total	9,766	9,816	121,690	146,861	278,367	1,099	289,232	67,539	5,055
Alaska	3,924	5,931	19,458	11,474	36,863	14	40,800	16,756	4
Arizona	911	-	21,508	50,141	71,649	23	72,582	3,443	47
California	4	939	32,882	2,850	36,672	1,062	37,738	11,687	4,404
Hawaii	-	84	740	1,698	2,523	-	2,523	11,056	15
Nevada	4,276	5	30,663	61,707	92,375	-	96,650	5,465	55
Oregon	404	1,619	8,377	12,976	22,972	-	23,376	5,784	205
Washington	248	1,237	8,062	6,015	15,314	-	15,562	13,347	326

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.

• Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1996, (DOE/EIA-0340(96)/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, 1996
(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	3,225,029	109,391	3,334,420	26,017	684,263	3,925,629	625,608	170,471
PAD District I Total	354,340	47,384	401,724	9,408	283,822	3,335,296	9,739	103,635
Subdistrict IA Total	12,042	4,223	16,265	974	20,821	858,167	547	837
Connecticut	1,942	666	2,608	9	1,730	382,237	230	247
Maine	2,254	1,469	3,723	239	879	55,163	—	—
Massachusetts	3,440	628	4,068	106	12,584	371,371	225	590
New Hampshire	551	357	908	186	1,673	49,397	—	—
Rhode Island	55	43	98	—	3,891	—	90	—
Vermont	3,800	1,061	4,861	434	64	—	2	—
Subdistrict IB Total	80,880	25,175	106,055	2,702	110,298	1,063,928	4,358	102,406
Delaware	5,466	71	5,537	35	8,337	62,664	754	23,437
District of Columbia	—	—	—	—	17,252	—	—	—
Maryland	22,823	3,351	26,173	875	24,212	69,658	131	665
New Jersey	6,149	1,009	7,159	38	5,173	131,149	1,492	2,383
New York	21,269	11,914	33,183	1,099	14,873	655,673	997	909
Pennsylvania	25,172	8,831	34,003	655	40,451	144,785	983	75,012
Subdistrict IC Total	261,419	17,985	279,404	5,732	152,703	1,413,201	4,834	391
Florida	74,683	186	74,869	140	70,455	1,370,198	549	79
Georgia	99,670	585	100,255	2	27,265	3,751	1,256	—
North Carolina	30,029	3,726	33,755	1,433	23,354	—	113	—
South Carolina	19,358	4,583	23,940	279	8,700	—	408	147
Virginia	34,514	7,922	42,435	3,239	10,225	39,253	1,202	165
West Virginia	3,166	984	4,150	639	12,703	—	1,307	—
PAD District II Total	1,607,279	55,457	1,662,736	14,878	164,750	88,480	48,831	29,256
Illinois	200,609	2,709	203,318	4,303	30,469	41,217	1,337	4,051
Indiana	90,700	2,217	92,917	1,331	18,371	—	2,787	—
Iowa	195,057	9,412	204,469	691	2,452	—	10	—
Kansas	161,386	688	162,074	397	6,270	—	4,868	—
Kentucky	30,905	1,002	31,907	1,729	9,057	—	300	3,748
Michigan	57,858	5,289	63,146	382	25,525	36,294	1,977	2,658
Minnesota	163,981	14,719	178,699	1,190	9,850	3,117	—	9,122
Missouri	57,833	384	58,217	302	5,307	7,299	39	—
Nebraska	172,361	1,401	173,762	315	1,509	—	616	—
North Dakota	102,136	1,042	103,178	7	5,506	5	8,281	—
Ohio	86,990	5,332	92,322	3,488	22,460	549	1,136	4,812
Oklahoma	75,217	337	75,554	62	404	—	27,304	—
South Dakota	74,377	4,802	79,179	99	1,241	—	77	—
Tennessee	57,254	223	57,476	264	17,990	—	98	115
Wisconsin	80,616	5,902	86,518	318	8,338	—	2	4,750
PAD District III Total	713,221	1,361	714,583	516	65,232	72,869	484,386	—
Alabama	31,982	80	32,062	8	12,792	—	8,403	—
Arkansas	91,333	34	91,367	52	5,629	4,422	1,419	—
Louisiana	52,736	—	52,736	69	18,728	5,175	287,714	—
Mississippi	80,463	323	80,786	84	4,436	63,233	1,128	—
New Mexico	15,008	—	15,008	13	1,560	—	16,855	—
Texas	441,699	924	442,623	290	22,088	39	168,867	—
PAD District IV Total	264,788	2,142	266,930	186	6,309	—	33,844	7,624
Colorado	87,955	651	88,606	120	892	—	10,083	—
Idaho	60,348	33	60,380	35	347	—	2	—
Montana	83,361	1,289	84,651	3	65	—	1,846	7,624
Utah	18,993	152	19,145	20	2,235	—	5,559	—
Wyoming	14,131	18	14,149	9	2,769	—	16,354	—
PAD District V Total	285,401	3,046	288,447	1,029	164,151	428,983	48,807	29,956
Alaska	1	1	2	—	39,170	—	44,091	—
Arizona	18,021	—	18,021	5	2,597	—	66	—
California	189,846	541	190,386	359	4,272	—	3,352	1,453
Hawaii	4,641	928	5,569	3	113,229	428,912	437	27,752
Nevada	4,241	19	4,260	15	1,864	—	332	116
Oregon	25,150	962	26,112	71	858	71	34	—
Washington	43,502	595	44,097	576	2,162	—	495	635

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.

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

Table 23. Adjusted Sales for Transportation Use: Distillate Fuel Oil and Residual Fuel Oil, 1996
(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	3,266,861	2,177,608	5,804,977	26,958,668	32,403,137	5,804,977
PAD District I Total	568,371	513,469	1,360,439	8,372,128	9,453,967	1,360,439
Subdistrict IA Total	24,862	71,917	86,070	858,402	955,181	86,070
Connecticut	6,215	2,472	177	^E 208,249	216,937	177
Maine	5,738	12,479	2,055	135,339	153,556	2,055
Massachusetts	12,132	46,282	83,533	313,984	372,398	83,533
New Hampshire	149	737	212	60,949	61,836	212
Rhode Island	96	9,481	92	44,378	53,955	92
Vermont	532	466	—	95,503	96,501	—
Subdistrict IB Total	143,614	138,053	788,155	3,063,474	3,345,141	788,155
Delaware	415	6,381	85,645	59,290	66,086	85,645
District of Columbia	6,161	2	—	20,949	27,112	—
Maryland	28,371	20,245	25,976	355,412	404,028	25,976
New Jersey	63,791	81,076	255,860	532,936	677,803	255,860
New York	7,041	13,882	277,974	924,782	945,705	277,974
Pennsylvania	37,836	16,467	142,699	1,170,105	1,224,408	142,699
Subdistrict IC Total	399,895	303,498	486,214	4,450,252	5,153,645	486,214
Florida	103,973	166,043	350,235	^E 962,504	1,232,520	350,235
Georgia	76,841	10,399	53,561	1,345,755	1,432,995	53,561
North Carolina	72,825	19,332	7,572	794,837	886,994	7,572
South Carolina	11,176	10,878	25,732	458,312	480,366	25,732
Virginia	128,748	26,093	48,940	757,666	912,508	48,940
West Virginia	6,332	70,752	174	131,178	208,262	174
PAD District II Total	1,412,083	477,296	24,428	9,125,173	11,014,552	24,428
Illinois	200,798	46,912	1,286	884,696	1,132,407	1,286
Indiana	127,691	16,934	12,674	1,036,200	1,180,825	12,674
Iowa	66,190	7,011	—	458,660	531,860	—
Kansas	121,763	—	—	352,872	474,635	—
Kentucky	104,310	146,330	—	587,549	838,189	—
Michigan	43,626	4,753	5,196	772,262	820,641	5,196
Minnesota	71,590	4,835	—	482,131	558,556	—
Missouri	22,782	163,421	247	767,383	953,586	247
Nebraska	165,708	49	—	336,764	502,521	—
North Dakota	46,467	—	—	135,043	181,510	—
Ohio	135,184	8,447	3,570	1,275,402	1,419,033	3,570
Oklahoma	152,129	147	—	541,337	693,613	—
South Dakota	1,957	—	—	141,728	143,685	—
Tennessee	96,740	76,352	90	754,982	928,074	90
Wisconsin	55,149	2,103	1,365	598,164	655,416	1,365
PAD District III Total	554,336	946,627	2,050,735	4,522,044	6,023,008	2,050,735
Alabama	44,929	55,758	105,997	646,567	747,254	105,997
Arkansas	57,333	2,830	—	495,380	555,543	—
Louisiana	23,771	608,963	1,101,644	508,414	1,141,149	1,101,644
Mississippi	21,128	23,075	72,515	400,100	444,304	72,515
New Mexico	19,045	—	—	314,590	333,635	—
Texas	388,130	256,001	770,579	2,156,993	2,801,124	770,579
PAD District IV Total	450,930	339	—	1,094,512	1,545,781	—
Colorado	130,661	—	—	273,207	403,868	—
Idaho	37,901	314	—	187,828	226,043	—
Montana	93,160	5	—	140,625	233,789	—
Utah	53,266	20	—	255,192	308,478	—
Wyoming	135,942	—	—	237,660	373,602	—
PAD District V Total	281,141	239,877	2,369,375	3,844,811	4,365,829	2,369,375
Alaska	2,959	94,617	152	34,918	132,493	152
Arizona	2,465	11	—	543,643	546,119	—
California	166,165	65,966	1,680,188	2,115,704	2,347,836	1,680,188
Hawaii	—	15,613	26,931	40,447	56,060	26,931
Nevada	5,452	—	—	^E 244,609	250,061	—
Oregon	54,651	15,551	131,310	386,239	456,441	131,310
Washington	49,448	48,119	530,794	479,251	576,818	530,794

^E Estimated data. Florida's 1996 estimate is based on seven months of data. Nevada's 1996 estimate is based on eight months of data. Connecticut's 1996 data are a Federal Highway Administration estimate.

Dashes (—) = No data reported.

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

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

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

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

Table 24. Adjusted Sales for Military, Off-Highway, and All Other Uses: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 1996
(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	323,436	47,657	371,093	57,249	1,645,647	417,890	2,063,538	-	10,542	7,223
PAD District I Total	41,266	38,874	80,141	40,120	504,241	108,581	612,822	-	7,792	3,008
Subdistrict IA Total	4,341	6,722	11,062	11,212	51,202	22,800	74,001	-	354	236
Connecticut	254	3,615	3,869	1,376	7,698	1,774	9,472	-	-	-
Maine	593	2,937	3,530	6,676	12,131	14,149	26,279	-	354	40
Massachusetts	1,378	53	1,431	3,160	22,549	1,060	23,609	-	-	26
New Hampshire	52	-	52	-	4,163	5,103	9,266	-	-	81
Rhode Island	1,866	30	1,895	-	2,756	276	3,032	-	-	1
Vermont	198	88	286	-	1,905	437	2,342	-	-	88
Subdistrict IB Total	12,996	24,198	37,195	14,018	158,460	11,207	169,667	-	-	2,244
Delaware	286	1,042	1,328	806	6,763	216	6,979	-	-	1
District of Columbia	73	1,935	2,008	-	320	-	320	-	-	-
Maryland	9,124	8,890	18,014	6,731	23,364	1,040	24,404	-	-	265
New Jersey	1,282	652	1,934	4,289	26,573	3,614	30,187	-	-	140
New York	231	2,123	2,354	890	47,508	177	47,685	-	-	337
Pennsylvania	2,000	9,556	11,556	1,302	53,933	6,160	60,093	-	-	1,501
Subdistrict IC Total	23,930	7,954	31,883	14,890	294,579	74,575	369,153	-	7,438	528
Florida	7,268	-	7,268	1,581	111,351	7,580	118,931	-	7,385	8
Georgia	2,553	425	2,978	-	50,376	21,365	71,741	-	-	159
North Carolina	2,870	999	3,869	6,635	56,304	8,985	65,288	-	53	105
South Carolina	1,273	670	1,943	2,920	20,449	18,600	39,049	-	-	11
Virginia	9,769	5,491	15,260	3,754	47,930	16,369	64,299	-	-	59
West Virginia	196	368	564	-	8,169	1,676	9,845	-	-	186
PAD District II Total	18,700	3,126	21,826	657	535,509	100,734	636,243	-	-	2,916
Illinois	1,252	148	1,400	21	64,543	5,626	70,169	-	-	666
Indiana	1,653	203	1,856	-	23,828	9,455	33,283	-	-	296
Iowa	223	-	223	-	30,485	10,599	41,085	-	-	23
Kansas	924	-	924	-	27,456	553	28,009	-	-	21
Kentucky	1,380	-	1,380	-	37,613	6,510	44,123	-	-	273
Michigan	393	1,202	1,595	122	43,109	14,186	57,295	-	-	429
Minnesota	670	-	670	-	44,107	15,637	59,743	-	-	191
Missouri	2,101	645	2,747	514	36,659	6,801	43,460	-	-	49
Nebraska	465	-	465	-	15,916	1,736	17,652	-	-	125
North Dakota	1,713	124	1,837	-	5,075	835	5,911	-	-	15
Ohio	750	5	755	-	66,953	5,471	72,424	-	-	592
Oklahoma	1,758	-	1,758	-	29,210	3,377	32,587	-	-	55
South Dakota	889	789	1,677	-	7,037	1,379	8,416	-	-	15
Tennessee	1,375	-	1,375	-	53,620	7,872	61,492	-	-	104
Wisconsin	3,155	11	3,165	-	49,897	10,698	60,595	-	-	62
PAD District III Total	157,950	704	158,654	4,767	297,024	104,173	401,197	-	31	517
Alabama	2,622	-	2,622	-	57,678	36,612	94,290	-	-	19
Arkansas	721	704	1,425	-	12,768	10,012	22,780	-	-	34
Louisiana	34,426	-	34,426	1,881	93,233	7,514	100,748	-	-	214
Mississippi	3,796	-	3,796	-	15,214	23,124	38,337	-	-	9
New Mexico	1,845	-	1,845	-	15,189	1,992	17,181	-	31	59
Texas	114,539	-	114,539	2,886	102,941	24,919	127,861	-	-	182
PAD District IV Total	2,344	3,444	5,788	8	137,865	33,575	171,440	-	71	126
Colorado	1,020	93	1,113	8	53,018	2,292	55,310	-	4	71
Idaho	673	-	673	-	16,344	16,080	32,424	-	5	5
Montana	269	-	269	-	28,825	5,776	34,602	-	-	1
Utah	356	3,351	3,706	-	21,543	4,052	25,595	-	24	7
Wyoming	26	-	26	-	18,134	5,375	23,509	-	38	41
PAD District V Total	103,175	1,509	104,684	11,697	171,009	70,826	241,836	-	2,649	657
Alaska	3,164	448	3,612	-	10,502	11,390	21,892	-	-	1
Arizona	700	9	709	-	23,423	2,238	25,661	-	-	17
California	62,040	106	62,147	7,509	84,317	23,659	107,976	-	28	365
Hawaii	12,912	-	12,912	3,460	4,694	373	5,067	-	2,621	-
Nevada	967	-	967	-	10,902	1,114	12,016	-	-	3
Oregon	1,510	39	1,548	-	9,274	14,249	23,523	-	-	182
Washington	21,883	907	22,790	729	27,898	17,803	45,702	-	-	89

Dashes (-) = No data reported.

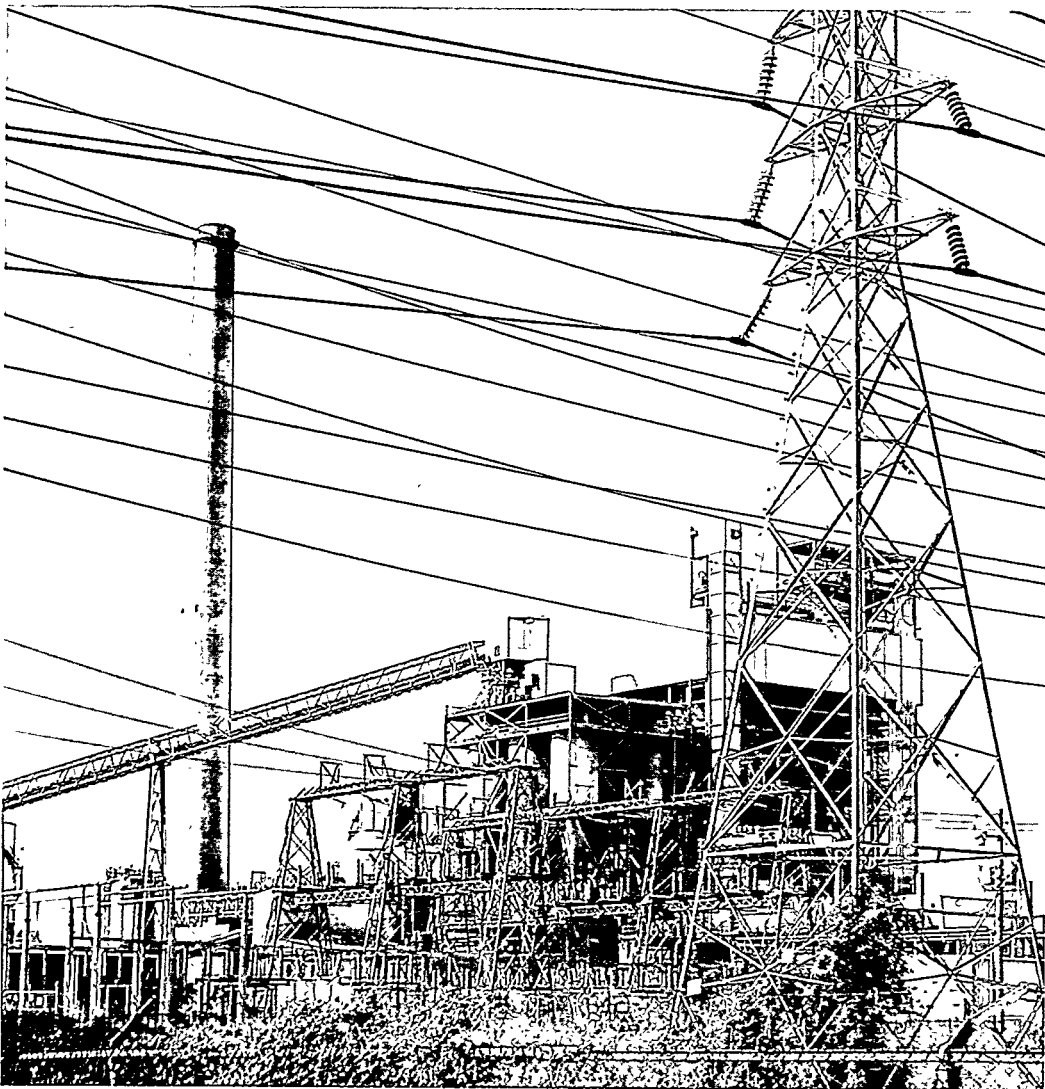
Note: Totals may not equal sum of components due to independent rounding.

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

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

Appendix A

Technical Notes



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

Appendix A

Technical Notes

Note 1: EIA-821: Annual Fuel Oil and Kerosene Sales Report, 1996

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 1996 EIA-821 survey. The EIA-863, "Petroleum Product Sales Identification Survey," was mailed to approximately 30,000 companies in January 1995 to collect 1994 State-level sales volume data for No. 2 distillate, residual fuel, motor gasoline, and propane. Companies also indicated if they sold kerosene. The No. 2 distillate data were further identified by residential and nonresidential end use, and non-end-use sales; the residual data were identified by end use and non-end-use; motor gasoline was identified by end use and non-end use and by conventional and oxygenated and/or reformulated; and propane was identified by residential, nonresidential, and non-end-use sales. The mailing list for the EIA-863 survey was constructed by

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

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

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

Discussion of the Sample Design

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

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

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

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

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

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

Imputation and Estimation

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

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

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 1996 EIA-821 data: distillate, 0.07 percent for oil company use to 15.8 percent for off-highway use; residual fuel oil, 0.01 percent for all other uses to 3.0 percent for military use; and kerosene, 0.7 percent for farm use to 4.1 percent for residential use.

Collection Methods

The EIA-821 form was mailed in January 1997 to all companies selected for participation in the 1996 reference year survey. The completed form was due to EIA on March 3, 1997. A second request was sent by certified mail to nonrespondents approximately 1 month after the filing deadline. Follow-up telephone calls were made to collect outstanding data and to verify reported data. Late submissions and resubmissions were processed when received.

Data Processing

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

Note 2: Reliability of the Data

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

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

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

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

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

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

where:

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

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

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

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

Response rates also offer some indication of the reliability and comprehensiveness of survey results. For the 1996 EIA-821 survey, the overall response rate (the number of submissions received, divided by the number of submissions solicited and expected, times 100) was 93.1 percent.

Coefficients of Variation for Sales of Fuel Oil, 1996

Geographic Area	Residential Distillate Fuel Oil	Non-Residential Retail Distillate Fuel Oil	Retail Residual Fuel Oil
U.S. Average	1.7	2.8	0.1
PAD District I Average	2.0	1.4	0.1
Subdistrict IA Average	3.2	1.8	0.1
Connecticut	4.7	3.5	0.0
Maine	13.2	3.9	0.0
Massachusetts	5.4	3.6	0.1
New Hampshire	6.4	3.5	0.0
Rhode Island	5.5	5.7	0.0
Vermont	3.2	3.8	0.0
Subdistrict IB Average	3.0	2.6	0.1
Delaware	3.2	5.9	0.0
District of Columbia	0.6	0.3	0.0
Maryland	3.7	3.4	0.0
New Jersey	4.7	3.6	0.0
New York	5.8	6.3	0.1
Pennsylvania	5.0	4.4	0.0
Subdistrict IC Average	3.3	2.0	0.1
Florida	10.7	2.6	0.0
Georgia	15.3	4.2	0.0
North Carolina	5.0	6.3	0.3
South Carolina	6.4	7.4	0.0
Virginia	5.5	5.1	0.0
West Virginia	7.8	3.0	0.0
PAD District II Average	2.9	1.3	0.1
Illinois	6.5	6.7	0.0
Indiana	6.4	2.6	0.0
Iowa	8.8	3.9	0.0
Kansas	15.8	6.9	1.3
Kentucky	7.4	3.2	0.0
Michigan	7.4	4.2	0.0
Minnesota	8.1	7.8	0.0
Missouri	5.8	4.6	0.0
Nebraska	15.3	3.8	0.0
North Dakota	7.7	3.8	0.0
Ohio	7.3	2.9	0.0
Oklahoma	62.3	5.8	0.0
South Dakota	9.8	4.5	0.0
Tennessee	17.4	2.5	0.0
Wisconsin	7.9	4.4	0.0
PAD District III Average	5.9	13.1	0.1
Alabama	7.6	6.2	0.1
Arkansas	42.3	4.1	0.0
Louisiana	41.0	8.6	0.0
Mississippi	4.5	4.7	0.0
New Mexico	2.8	4.5	0.0
Texas	0.0	23.6	0.0
PAD District IV Average	14.8	1.8	0.1
Colorado	66.4	3.5	0.0
Idaho	10.7	4.0	0.0
Montana	35.7	6.6	0.1
Utah	14.1	4.4	0.0
Wyoming	5.2	2.7	0.0
PAD District V Average	2.0	2.2	0.1
Alaska	2.9	1.4	0.0
Arizona	22.4	3.0	0.0
California	9.3	4.5	0.0
Hawaii	0.0	4.1	0.0
Nevada	1.7	3.9	0.0
Oregon	4.3	4.0	0.0
Washington	3.6	4.2	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 1996.

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 1992 through 1996 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 1992 through 1996 special fuels, more than 98 percent is diesel.

1992 through 1996 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 1996 survey resulted in 812,140 thousand gallons of kerosene at the national level. The products supplied volume at the national level for kerosene was 948,990 thousand gallons. Hence, the adjustment factor at the national level for 1996 was 1.17.

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 1996 are as follows:

Distillate Fuel Oil

- PAD District I: .98
- PAD District II: .98
- PAD District III: .85
- PAD District IV: 1.30
- PAD District V: .66

For Tables 13 through 24, total sales at the PAD district level equal the products supplied volumes as reported in the PSA, 1992 through 1996. For example, the 1996 survey yielded a volume for distillate residential use in PAD District II of 903,197 thousand gallons. The total distillate volume for PAD District II was 6,488,200 from the survey, after subtracting the volume coming from alternate sources. The product supplied total distillate volume for PAD District II was 6,359,193 after removing alternate source volume. Hence, the adjusted 1996 estimate of distillate for residential use in PAD District II was $(6,359,193/6,488,200) \times 903,197 = 885,239$.

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 1996 survey yielded 13,256,998 thousand gallons of residual fuel oil, while the products supplied volume at the national level was 13,041,042 thousand gallons. Thus, the adjustment factor at the national level for 1996 was 1.02, after subtracting the volumes coming from alternate sources. For residual fuel oil, the adjustments were made to each State and end-use category except electric utility use.

Note 4: End-Use Descriptions and Petroleum Product Definitions

End-Use Descriptions

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

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

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

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

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

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

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

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

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

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

Off-Highway Use. Includes sales for use in:

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

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

Definitions of Petroleum Products and Other Related Terms

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

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

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

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

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

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

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

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

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

3. **No. 4 Fuel.** A fuel oil for commercial burner installations not equipped for preheating facilities. It is used extensively in industrial plants. This grade is a blend of distillate fuel oil and residual fuel oil stocks that conforms to ASTM Specification D 396 or Federal Specification VV-F-815C; its kinematic viscosity is between 5.8 and 26.4 centistokes at 100 degrees Fahrenheit. Also included is No. 4-D, a fuel oil for low- and medium-speed diesel engines that conforms to ASTM Specification D 975.

Kerosene. A petroleum distillate that boils at a temperature between 300 and 550 degrees Fahrenheit, that has a flash point higher than 100 degrees Fahrenheit by ASTM Method D 56, that has a gravity range from 40 to 46 degrees API, and that has a burning point

in the range of 150 degrees to 175 degrees Fahrenheit. Included are the two classifications recognized by ASTM Specification D 3699: No. 1-K and No. 2-K, and all grades of kerosene called range or stove oil which have properties similar to No. 1 fuel oil, but with a gravity of about 43 degrees API and a maximum end-point of 625 degrees Fahrenheit. Kerosene is used in space heaters, cook stoves, and water heaters and is suitable for use as an illuminant when burned in wick lamps. **NOTE:** Respondents to the EIA-821 survey were instructed to report all volumes in accordance with what the product was sold as, regardless of the actual specifications of that product. For example, if a No. 2 distillate was sold as a heating oil or fuel oil, the volume would be reported in the category "No. 2 Fuel Oil" even if the product conformed to the higher specifications of a diesel fuel.

PAD District. Petroleum Administration for Defense Districts

PAD District I:

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

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

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

PAD District II:

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

PAD District III:

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

PAD District IV:

Colorado, Idaho, Montana, Utah, and Wyoming

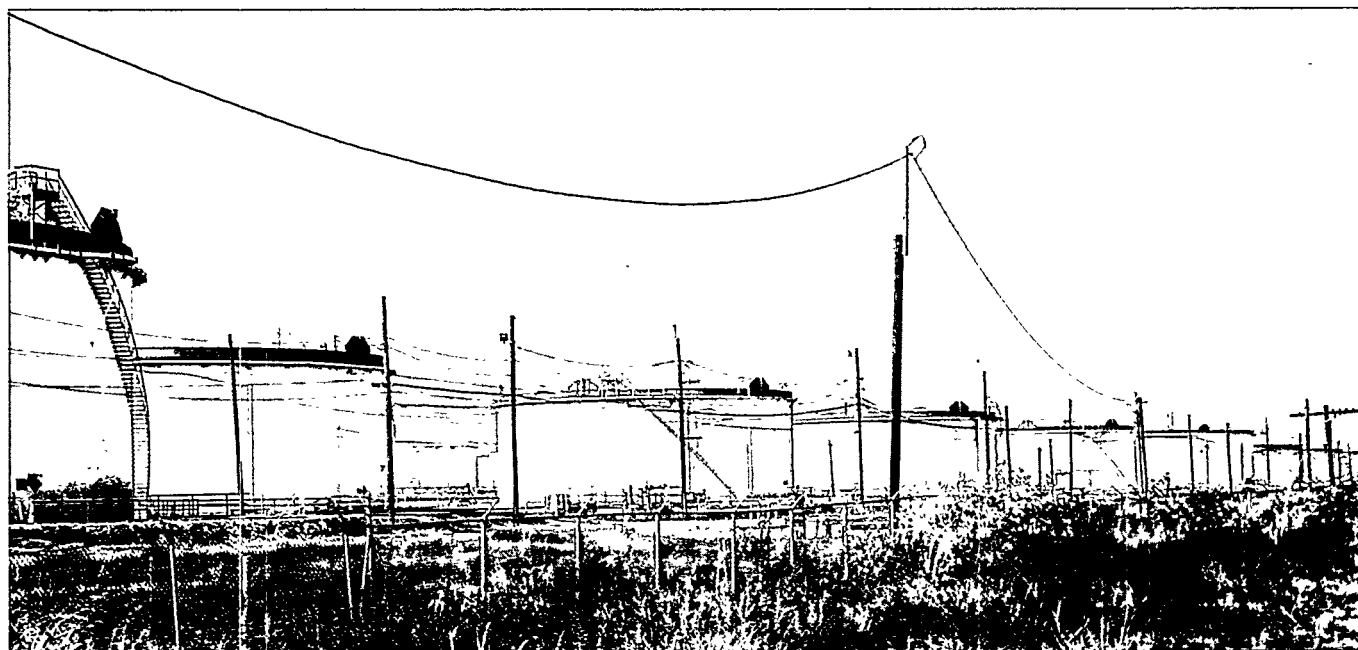
PAD District V:

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

Residual Fuel Oils. The topped crude of refinery operations, which includes No. 5 and No. 6 fuel oils, as defined in ASTM Specification D 396 and Federal Specification, VV-F-815C; Navy Special fuel oil as

defined in Military Specification MIL-F-859E including Amendment 2 (NATO symbol F-77); and Bunker C fuel oil. Residual fuel oil is used for the production of electric power, space heating, vessel bunkering, and various industrial purposes.

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



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

Appendix B

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

Appendix B

EIA-821 (12-96)

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 [][][] - [][][] - [][][][]		6. City	7. State 8. Zip Code						
9. Reference Year 1996	10. Type of Report (Check One) (1) <input type="checkbox"/> Original (2) <input type="checkbox"/> Resubmission	11. The Number of States for Which You Are Reporting [][]							
12. Which of the following best describes this firm at the end of 1996? a. <input type="checkbox"/> In operation - Sales include petroleum products Skip to and complete items 22-25 and Part II b. (1) <input type="checkbox"/> Sold or Merged } Complete items 13 to 25, and Part II for that portion of 1996 in which the firm was active under your ownership and control (2) <input type="checkbox"/> Leased } c. <input type="checkbox"/> Permanently ceased operation Complete item 13, then skip to and complete items 22-25 and Part II for the portion of 1996 in which the firm was active under your ownership and control d. <input type="checkbox"/> Subsidiary of another } Complete items 13 to 25, and Part II for that portion of 1996 in which the firm was active under your ownership and control e. <input type="checkbox"/> Commissioned Agent } f. <input type="checkbox"/> Not in petroleum business Skip to and complete items 22-25		13. Effective Date of Status Change <table border="1"> <thead> <tr> <th>Month</th> <th>Day</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td>[][]</td> <td>[][]</td> <td>[][]</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 [][][] - [][][] - [][][][]							
		17. Street							
		18. PO Box / RFD							
		19. City	20. State 21. Zip Code						
PREPARED BY: Check appropriate box. 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							
<p>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, Office of Statistical Standards 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.</p>									

Name of Firm Reporting		DOE ID Number	Reference Year 1996	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 1996	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)			

