Fuel Oil and Kerosene Sales 1998

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Contacts

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Fuel Oil and Kerosene Data Available Through Electronic Access

Annual petroleum marketing data are available through electronic access that contains statistics from the *Fuel Oil* and *Kerosene Sales 1998* report. Included are annual sales data on petroleum volumes of kerosene, distillate fuel oils, and residual fuel oils by State. Annual historical data at the national level are provided in summary tables.

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

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

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Introduction

The Fuel Oil and Kerosene Sales 1998 report provides information, illustrations and State-level statistical data on end-use sales of kerosene; No.1, No. 2, and No. 4 distillate fuel oil; and residual fuel oil. State-level kerosene sales include volumes for residential, commercial, industrial, farm, and all other uses. Statelevel distillate sales include volumes for residential, commercial, industrial, oil company, railroad, vessel bunkering, military, electric utility, farm, on-highway, off highway construction, and other uses. State-level residual fuel sales include volumes for commercial, industrial, oil company, vessel bunkering, military, electric utility, and other uses. The Petroleum Division, Office of Oil and Gas, Energy Information Administration ensures the accuracy, quality, and confidentiality of the published data in the Fuel Oil and Kerosene Sales 1998.

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

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

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

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

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

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

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

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

Highlights

Sales of Fuel Oil and Kerosene in 1998

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

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

Distillate Fuel Oil

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

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

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

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

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

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

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

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

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

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

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

Oil company direct use of distillate fuel oil decreased sharply as companies curtailed drilling and other activities. In 1998, driven by falling crude oil and natural gas prices the number of rotary rigs in operation dropped steadily. As oil prices fell, rig counts plunged, falling by 35 percent between January and December. In comparison to 1997, the yearly average rig count fell by 12.3 percent.⁵ Other than in PAD District V⁶, the West Coast, direct oil company use decreased throughout the U.S.

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

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

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

¹US Department of Commerce, Bureau of Economic Analysis.

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

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

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

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

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

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

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

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

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

Residual Fuel Oil

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

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

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

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

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

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

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

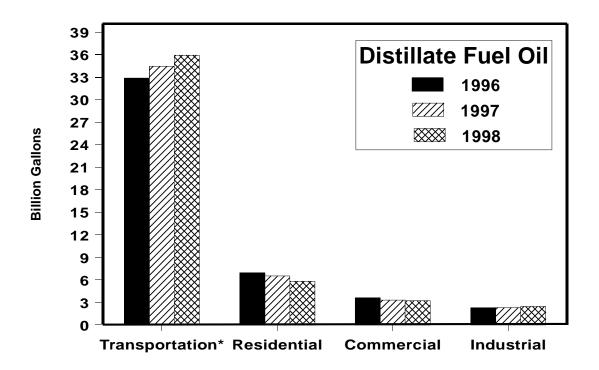
⁸Economic Indicators, April 1999, Washington D.C. US Government Printingt Office, p.17.

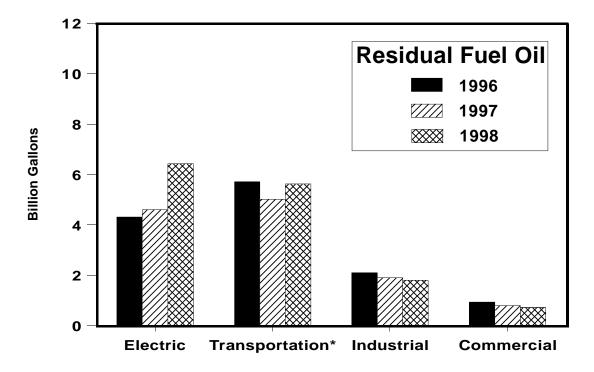
Kerosene

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

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

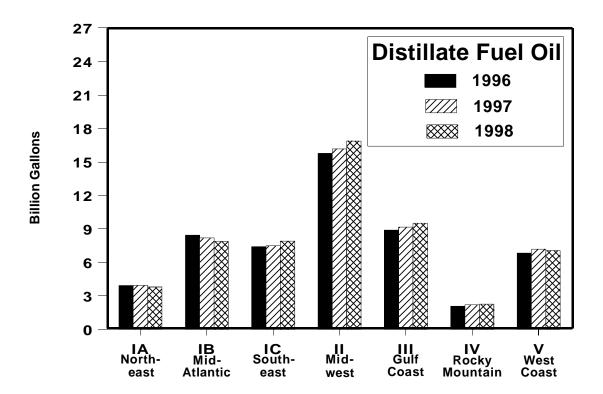
Figure HL1. U.S. Sales of Distillate and Residual Fuel Oils by End Use, 1996-1998

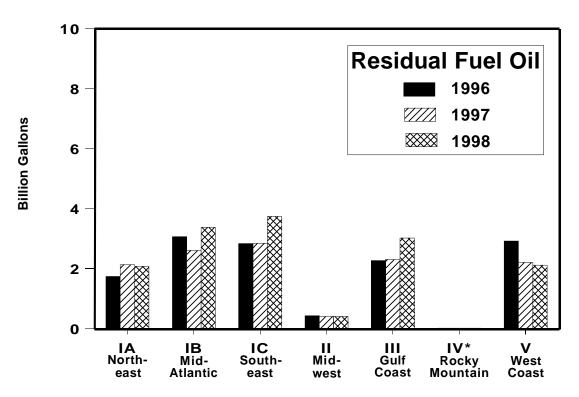




^{*}For distillate fuel oil, transportation use comprises railroad, vessel bunkering, and on-highway diesel end-use categories. For residual fuel oil, transportation use comprises the vessel bunkering end-use category. Sources: Energy Information Administration, Form EIA-821, "Fuel Oil and Kerosene Sales Report," 1997 and 1998.

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

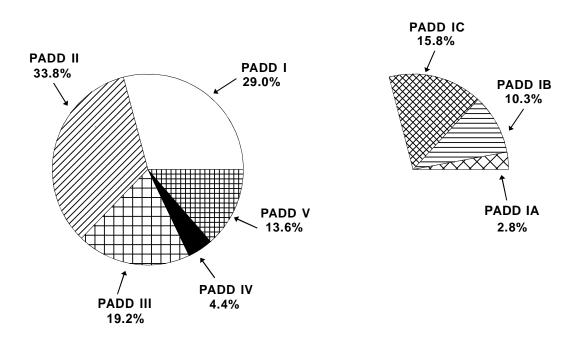




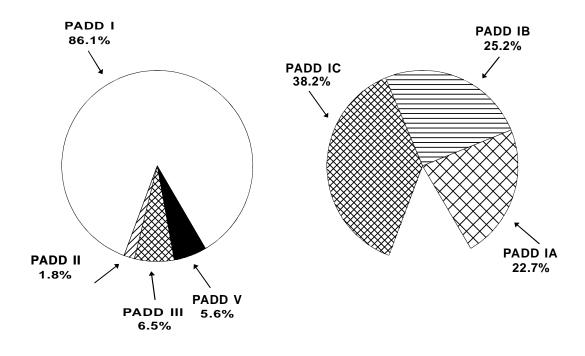
^{*}Residual fuel oil sales in PAD District IV are too small to appear in this graph. Sources: Energy Information Administration, Form EIA-821, "Fuel Oil and Kerosene Sales Report," 1997 and 1998.

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

Distillate: Transportation



Residual: Electric Utility



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

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

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

Dashes (-) = No data reported.

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

Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 1994-1998.

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

Table 2. Sales of Residual Fuel Oil by End Use in the United States: 1994-1998 (Thousand Gallons)

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

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

Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 1994-1998.

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

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

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

Note: Kerosene data in the Sales tables (1-12) are adjusted at the national level. See Technical Note 3 for further explanation.

Sources: • Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1994-1998, (DOE/EIA-0340(94)/1 - (98)/1).

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

Described to a	Reside	ential	Comm	ercial	Industrial		
Destination	1997	1998	1997	1998	1997	1998	
U.S. Total	6,531,416	5,819,959	3,314,956	3,233,350	2,309,615	2,462,355	
PAD District I Total	5,452,394	4,908,899	2,158,376	2,019,149	728,262	778.225	
Subdistrict IA Total	-, - ,	1,984,396	603,904	596,243	101,435	98,815	
Connecticut		485,725	127,696	115,527	25,878	22,994	
Maine	322,282	331,700	102,281	120,703	28,813	32,549	
Massachusetts		745,709	247,024	237,347	21,874	21,246	
New Hampshire		189,684	57,654	54,240	6,143	7,002	
Rhode Island		143,395	32,287	27,225	11,403	7,904	
Vermont	, -	88,183	36,962	41,201	7,325	7,119	
Subdistrict IB Total		2,518,766	1,125,748	998,535	207,291	258,142	
Delaware		35,335	14,726	12,718	8,334	4,750	
District of Columbia		10,330	22,010	13,976	285 25,850	300 69,000	
Maryland New Jersey	,	189,461 400,858	107,936 148,189	112,219 134,447	39,599	41,642	
New York	,	1,169,877	623,764	523,270	42,573	42,889	
Pennsylvania		712,905	209,123	201,905	90,650	99,561	
Subdistrict IC Total	,	405,737	428,725	424,371	419,536	421,269	
Florida		4,782	77.682	61.163	45,623	54,779	
Georgia		4,106	37,797	31,440	42,144	46,422	
North Carolina		131,451	124,485	113,495	81,906	84,236	
South Carolina	,	20,877	45,646	65,974	21,057	23,907	
Virginia	226,854	220,498	129,373	136,032	116,363	91,020	
West Virginia	26,256	24,023	13,740	16,267	112,442	120,906	
PAD District II Total	,	659,306	597,077	595,586	691,230	823,485	
Illinois	,	18,347	95,938	81,773	82,293	123,124	
Indiana	,	46,309	47,620	62,472	75,290	110,181	
lowa	,	24,158	13,930	20,334	16,142	33,351	
Kansas		501	20,586	19,368	12,145	15,890	
Kentucky		25,688 116,529	40,640 83,385	46,496	170,041 43,633	163,665	
Michigan Minnesota	,	111,632	38,002	66,135 37,007	41,892	54,239 54,426	
Missouri		12,910	50,856	50,946	34,298	45,288	
Nebraska	,	2,838	7,178	9,736	4,396	21,961	
North Dakota		23,351	11,193	11,818	8,642	8,502	
Ohio		127,050	61,008	49,362	77,365	73,174	
Oklahoma		54	24,640	27,186	8,345	9,384	
South Dakota		16,791	11,437	10,416	4,221	3,226	
Tennessee	,	10,112	35,971	41,688	47,753	42,897	
Wisconsin	140,932	123,036	54,693	60,850	64,776	64,176	
PAD District III Total	,	472	175,257	210,972	315,184	310,483	
Alabama	,	262	23,377	24,904	58,852	71,846	
Arkansas		22	11,762	15,728	23,170	16,542	
Louisiana		44	13,538	13,291	19,424	12,928	
Mississippi		46	14,354	16,054	39,861	21,850	
New Mexico Texas		87 11	7,347 104,880	6,071 134,923	42,251 131,627	37,602 149,715	
PAD District IV Total	56,712	39,114	88,332	90,697	156,338	174,495	
Colorado	- : '	816	38,813	38,098	19,369	21,560	
Idaho		16,356	15,275	18,097	25,330	26.149	
Montana		17,750	7,038	5,005	21,552	15,079	
Utah		3,080	17,656	23,012	22,665	32,180	
Wyoming		1,112	9,550	6,485	67,421	79,526	
PAD District V Total	-,	212,167	295,914	316,946	418,602	375,668	
Alaska	,	73,419	41,206	46,906	33,328	32,976	
Arizona		196	28,484	49,260	117,481	95,658	
California		7,415	108,215	116,706	61,801	68,183	
Hawaii		14	17,062	9,247	2,707	1,990	
Nevada	,	11,971	12,261	13,550	148,472	123,545	
Oregon		41,983	41,385	43,671	38,751	37,392	
Washington	80,548	77,169	47,301	37,606	16,062	15,925	

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

	estination Oil Company		Far	m	Electric Utility		
Destination	1997	1998	1997	1998	1997	1998	
J.S. Total	852,015	783,719	3,547,699	3,410,801	636,002	840,73	
PAD District I Total	8,056	7,251	390,596	395,997	238,989	386,45	
Subdistrict IA Total	380	100	17,709	18,956	15,277	13,50	
Connecticut	119	14	3,093	3,391	2,429	4,45	
Maine	_	_	4,222	4,775	1,556	1,33	
Massachusetts	257	80	3,545	2,914	7,512	4,38	
New Hampshire	_	_	1,278	1,200	2,690	1,67	
Rhode Island	1	_	111	56	890	1,22	
Vermont	3	7	5,460	6,620	201	43	
Subdistrict IB Total	3,699	3,079	105,328	103,046	88,133	104,79	
Delaware	1,668	1,050	5,383	7,177	3,105	3,02	
District of Columbia	_	_	_	_	12,785	18,81	
Maryland	45	31	25,225	23,895	26,835	20,68	
New Jersey	463	296	6,234	4,894	7,168	7,63	
New York	741	768	35,833	39,621	9,306	3,30	
Pennsylvania	782	934	32,652	27,458	28,933	51,32	
Subdistrict IC Total	3,978	4,072	267,558	273,995	135,579	268,15	
Florida	570	315	81,522	73,030	64,641	151,24	
Georgia	766	324	89,129	110,881	11,686	40,37	
North Carolina	192	136	33,421	35,250	15,943	27,53	
South Carolina	1	5	20,984	17,251	21,796	27,25	
Virginia	2,140	3,045	39,409	34,772	8,930	10,17	
West Virginia	309	248	3,093	2,811	12,583	11,56	
AD District II Total	49,654	46,185	1,735,937	1,681,748	174,601	220,68	
Illinois	1,565	822	209,434	217,627	33,655	43,15	
Indiana	4,396	2,341	101,228	99,117	26,752	27,54	
lowa	. 		211,720	204,867	3,362	7,46	
Kansas	5,844	3,255	182,949	168,523	5,208	7,32	
Kentucky	604	4,737	41,397	45,798	9,007	7,31	
Michigan	2,068	2,293	57,070	53,719	23,436	24,72	
Minnesota	25	284	186,903	173,849	6,454	5,90	
Missouri	82	112	60,984	62,799	6,733	9,00	
Nebraska	1,036	39	182,347	179,038	2,404	2,25	
North Dakota	3,612	4,564	93,925	90,760	5,441	35,21	
Ohio	1,454	1,584	93,399	88,418	26,622	30,95	
Oklahoma	28,719	25,809	74,001	73,663	855	2,84	
South Dakota	186	_	76,849	72,741	5	72	
Tennessee Wisconsin	62 -	346 -	73,155 90,577	62,103 88,726	13,828 10,840	12,02 4,25	
AD District III Total	667 000	E00 012	604 424	666 934	47 500	46.40	
Alabama	667,998 9,057	598,813 371	694,421 36,524	666,824 29,653	47,599 6,180	46,49 9,61	
	1,870	1,779	114,620	118,249	5,788		
Arkansas	344,220	,	,	53,438	,	10,10 12,73	
LouisianaMississippi	1,557	351,457 2,084	55,055 108,824	106,168	14,533	3,55	
• • • • • • • • • • • • • • • • • • • •	23,800	,	14,057	,	2,514	68	
New Mexico Texas	287,494	18,467 224,655	365,341	15,565 343,751	1,289 17,295	9,79	
AD District IV Total	34,328	27,819	212,108	192,285	6,966	7,19	
Colorado	6,007	4,499	67,132	68,175	444	48	
Idaho	1	- 1,100	48,982	38,369	33	2	
Montana	1,744	1,601	61,441	51,106	15	_	
Utah	5,272	5,072	19,951	20,748	2,409	3,08	
Wyoming	21,304	16,646	14,601	13,888	4,065	3,61	
AD District V Total	91,979	103,651	514,637	473,947	167,847	179,89	
Alaska	82,777	94,891	2	2	55,471	60,08	
Arizona	93	96	31,761	26,169	3,254	3,02	
California	5,321	6,052	364,237	335,225	6,492	7,86	
Hawaii	1,902	1,274	7,130	9,392	100,324	106,51	
Nevada	505	305	6,656	5,564	1,709	1,56	
Oregon	124	242	44,829	33,161	441	39	
Washington	1,257	790	60,021	64,435	157	45	

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

Posti sati su	Railr	oad	Vessel Bu	ınkering	On-Highway		
Destination	1997	1998	1997	1998	1997	1998	
U.S. Total	3,277,802	3,180,124	2,573,800	2,595,076	28,614,022	30,150,191	
PAD District I Total	539,611	491,650	505,046	520,608	8,951,981	9,398,405	
Subdistrict IA Total	25,248	29,317	61,578	47,876	913,558	942,889	
Connecticut	8,355	7,068	3,267	2,847	216,062	222,076	
Maine	6,222	8,036	12,564	12,565	138,527	135,254	
	9,742	12,805	,	,	344,131	,	
Massachusetts	,	,	33,575	19,787		357,050	
New Hampshire	128	17	386	536	E64,481	103,225	
Rhode Island	127	270	11,318	11,641	72,916	48,713	
Vermont	675	1,121	467	499	77,441	76,571	
Subdistrict IB Total	144,230	128,258	144,148	155,557	3,306,771	3,420,503	
Delaware	433	445	2,151	2,644	63,187	62,453	
District of Columbia	5,221	4,672	_	3	21,572	21,412	
Maryland	31,056	6,024	11,838	20,673	370,944	425,381	
New Jersey	54.073	44,261	105,198	92,631	E633,028	717,711	
New York	9,009	24,067	5,187	4,899	E977,851	917,161	
Pennsylvania	44,437	48,789	19,774	34,707	1,240,189	1,276,385	
Subdistrict IC Total	370,133	334,075	299,321	317,174	4,731,652	5,035,013	
Florida	,		2 99,321 148.977	161,733	, ,		
	74,037	106,370	- / -	,	1,177,788	1,182,855	
Georgia	100,590	76,415	12,068	10,528	1,185,844	1,231,023	
North Carolina	69,309	45,996	28,226	36,183	854,189	892,816	
South Carolina	14,381	16,635	15,593	13,937	484,503	563,590	
Virginia	93,815	68,093	27,331	29,752	_ 832,903	895,185	
West Virginia	18,000	20,568	67,125	65,042	E196,425	269,544	
PAD District II Total	1,342,830	1,324,803	450,919	624,376	9,659,243	10,205,834	
Illinois	146,356	110,860	43,711	44,684	936,299	1,077,513	
Indiana	105,586	68,949	40,428	27,349	1,121,011	1,129,693	
lowa	52,827	48,021	6,107	7,595	457,122	479,789	
Kansas	88,792	80,810	-,	- ,,,,,,	E364,088	372,593	
Kentucky	97,458	102,663	109,544	95,612	683,925	690,621	
Michigan	47,775	55,047	5,817	8,241	808,162	865,113	
•	72,781	96,950	2,992	4,028	,	,	
Minnesota	,				502,305	546,107	
Missouri	26,641	30,118	178,455	363,176	814,212	933,682	
Nebraska	197,184	220,015	73	39	316,626	360,777	
North Dakota	45,708	19,930	_	544	145,436	142,612	
Ohio	161,957	147,847	5,749	9,191	1,400,649	1,412,948	
Oklahoma	169,752	208,606	166	548	562,915	566,471	
South Dakota	1,859	1,351	_	_	140,377	141,809	
Tennessee	87,696	101,523	55,768	60,662	776,452	821,331	
Wisconsin	40,457	32,115	2,109	2,708	629,664	664,775	
PAD District III Total	680,361	676,222	1,197,462	1,098,953	4,738,216	5,125,135	
Alabama	49,779	43,176	69,204	28,847	656,302	701,742	
Arkansas	54,161	62,776	3,047	5,549	532,548	560,831	
Louisiana	25,523	31.054	778,231	663.667	525.902	541,189	
	,	- /	,	/	,		
Mississippi	28,913	23,277	40,566	25,392	431,389	494,855	
New Mexico Texas	26,294 495,691	13,874 502,065	306,415	375,498	341,429 2,250,646	393,110 2,433,408	
	,	,	•		, ,	,,	
PAD District IV Total	278,761	277,361	196	170	1,224,729	1,303,954	
Colorado	48,369	62,169	-	_	_ 291,105	383,801	
Idaho	29,076	34,231	178	170	E202,725	184,607	
Montana	69,896	63,079	_	_	E178,706	171,675	
Utah	36,658	26,672	17	_	293,452	303,331	
Wyoming	94,761	91,211	_	-	258,741	260,540	
PAD District V Total	436,239	410,088	420,176	350,970	4,039,853	4,116,863	
Alaska	4,925	5,111	140,831	116,596	E68,374	68,548	
Arizona	3,636	2,901	27	-	E557,464	602,809	
California	250,124	262,435	163,933	119,358	2,288,069	2,339,261	
	230,124	202,433			, ,	, ,	
Hawaii	0.700	4.070	19,824	23,112	28,487	28,956	
Nevada	8,760	4,876	-	47.540	221,981	228,955	
Oregon	89,008	62,391	14,308	17,512	E408,624	418,953	
Washington	79,785	72,373	81,253	74,391	466,854	429,381	

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

Destination	Milit	ary	Off-Hig	hway	All C	Other	То	tal
Destination	1997	1998	1997	1998	1997	1998	1997	1998
U.S. Total	432,621	352,189	2,276,548	2,477,199	-	_	54,366,495	55,305,694
PAD District I Total	57,503	40,860	600,716	640,744	_	_	19,631,529	19,588,241
Subdistrict IA Total	6,506	3,855	64,414	64,146	_	_	3,952,368	3,800,101
Connecticut	3,761	881	7,760	7,854	_	_	961,829	872,827
Maine	798	1,007	21,464	22,066	_	_	638,728	669,989
Massachusetts	1,726	525	23,482	20,151	_	_	1,490,455	1,422,002
New Hampshire	_	554	6,110	8,221	_	_	340,549	366,356
Rhode Island	93	749	3,366	2,972	_	_	289,459	244,151
Vermont	128	138	2,231	2,881	_	_	231,347	224,775
Subdistrict IB Total	23,663	14,786	165,467	173,945	_	_	8,189,310	7,879,408
Delaware	458	1,160	4,283	5,954	_	_	143,110	136,707
District of Columbia	135	162	609	460	_	_	73,847	70,134
Maryland	9,455	3,441	23,311	26,647	_	_	850,718	897,453
New Jersey	1,241	1,030	31,530	41,103	_	_	1,520,999	1,486,504
New York	1,644	666	47,982	49,180	_	_	3,031,593	2,775,706
Pennsylvania	10,732	8,327	57,752	50,602	_	_	2,569,044	2,512,902
Subdistrict IC Total	27,333	22,219	370,835	402,653	_	_	7,489,851	7,908,733
Florida	5,424	4,649	122,036	114,091	_	_	1,804,620	
	,	,	,	,			, ,	1,915,008
Georgia	2,340	2,023	79,962	72,770	_	_	1,565,764	1,626,308
North Carolina	1,482	1,758	59,320	92,151	_	_	1,417,539	1,461,010
South Carolina	3,004	3,523	42,214	47,976	_	_	692,447	800,933
Virginia	15,039	10,165	59,498	65,776	_	_	1,551,657	1,564,514
West Virginia	45	102	7,805	9,889	_	-	457,823	540,959
PAD District II Total	22,318	18,016	655,821	685,408	-	-	16,173,836	16,885,433
Illinois	1,248	1,520	59,653	77,215	_	_	1,640,961	1,796,635
Indiana	376	352	37,858	46,637	_	_	1,615,545	1,620,944
lowa	2,293	304	53,838	50,428	_	_	848,867	876,313
Kansas	1,147	429	28,255	25,328	_	_	710,552	694,020
Kentucky	1,525	1,709	35,187	44,451	_	_	1,217,943	1,228,750
Michigan	373	279	70,670	70,799	_	_	1,301,707	1,317,113
Minnesota	378	293	49,802	48,036	_	_	1,029,110	1,078,517
Missouri	1,194	787	59,105	58,016	_	_	1,246,087	1,566,842
Nebraska	620	1,187	16,542	19,652	_	_	732,324	817,535
North Dakota	679	625	7,491	8,732	_	_	348,314	346,648
Ohio	222	266	76,694	72,646	_	_	2,049,796	2,013,443
Oklahoma	916	541	39,582	37,353	_	_	910,045	952,459
South Dakota	2,413	632	8,164	8,028	_	_	265,644	255,714
Tennessee	1,358	1,931	67,554	69,348	_	_	1,169,890	1,223,960
Wisconsin	7,577	7,162	45,427	48,738	_	_	1,087,051	1,096,540
PAD District III Total	169,552	169,731	479,820	601,559	_	_	0 167 706	9,505,662
	,		,	,	_	_	9,167,786	, ,
Alabama	988	813	87,329	61,786			999,333	973,016
Arkansas	1,162	877	34,258	31,019	_	_	782,417	823,479
Louisiana	18,215	1,723	127,984	120,641	_	_	1,922,627	1,802,172
Mississippi	5,108	3,634	51,773	47,803	_	_	724,875	744,716
New Mexico	2,282	1,280	10,399	11,627	_	_	469,264	498,369
Texas	141,797	161,404	168,077	328,682	-	_	4,269,270	4,663,910
PAD District IV Total	2,941	2,975	138,753	149,471	_	_	2,200,163	2,265,536
Colorado	868	1,076	40,562	53,617	_	_	514,913	634,292
Idaho	381	102	27,988	25,023	_	_	368,876	343,129
Montana	194	218	20,635	18,065	_	_	391,019	343,578
Utah	1,469	1,547	30,578	38,115	_	_	433,944	456,838
Wyoming	29	31	18,989	14,650	-	_	491,411	487,699
PAD District V Total	180,307	120,606	401,440	400,017	_	_	7,193,181	7,060,822
Alaska	3,502	13,156	39,769	30,011	_	_	550,630	541,703
Arizona	535	587	34,679	37,066	_	_	777,730	817,764
California	24,048	26,261	179,294	154,840	_	_	3,458,448	3,443,604
Hawaii	9,211	2,496	15,357	13,003	_	_	202,022	196,001
					_	_		
Nevada	1,570	1,306	20,924	12,592	_		434,158	404,224
Oregon Washington	648 140,795	191 76,609	38,692 72,724	44,832 107,673		_	723,438	700,719 956,806
			17 174	101/6/3	_	_	1,046,756	YOU KUR

E Estimated data.

Dashes (-) = No data reported.

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

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

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

Table 5. Sales of Residual Fuel Oil by End Use, 1997 and 1998

Description of the second	Comm	ercial	Indus	strial	Oil Coi	mpany	Electric	Utility
Destination	1997	1998	1997	1998	1997	1998	1997	1998
U.S. Total	789,674	715,111	1,898,611	1,797,906	160,477	127,464	4,599,084	6,431,746
PAD District I Total	757,944	574,886	1,462,795	1,435,165	68,545	85,367	3,849,646	5,536,036
Subdistrict IA Total	193,704	138,729	451,268	457,718	233	234	1,415,233	1,461,444
Connecticut	14,335	8,443	16,846	15,871	233	234	546,560	522,591
Maine	26,195	14,851	297,931	285,824	_	_	103,790	148,719
Massachusetts	99,935	74,743	76,852	93,910	_	_	734,992	729,754
New Hampshire	21,151	14,594	37.007	37,752	_	_	29,891	60,380
Rhode Island	27,132	20,467	13,152	15,514	_	_	23,031	- 00,000
Vermont	4,956	5,631	9,480	8,848				_
Subdistrict IB Total	544,746	423,295	271,866	261,037	67,389	84,856	887,574	1 610 177
	,	,						1,618,177
Delaware	8,663	6,541	35,171	32,470	19,075	19,110	68,252	90,705
District of Columbia	1,539	222	-	-	_	_	-	-
Maryland	2,224	2,217	36,768	32,872	664	694	92,475	248,382
New Jersey	35,422	25,816	57,959	42,908	2,549	2,180	18,108	112,091
New York	450,968	356,962	86,772	97,759	920	798	643,544	999,720
Pennsylvania	45,929	31,537	55,195	55,027	44,182	62,075	65,197	167,278
Subdistrict IC Total	19,494	12,861	739,662	716,409	923	277	1,546,839	2,456,416
Florida	5,546	522	150,408	215,754	361	_	1,499,101	2,256,686
Georgia	266	61	136,497	63,797	_	_	2,117	6,373
North Carolina	7,538	6,015	247,221	243,334	_	_	_,	-
South Carolina	450	341	87,974	83,726	141	120	1,129	8,121
	5,693		107,244	105,993	421	157	44.492	,
Virginia	5,093	5,922		,	421	137	44,492	185,235
West Virginia	_	_	10,317	3,806	_	_	_	_
PAD District II Total	26,394	40,998	218,189	199,235	52,951	19,559	82,102	118.977
Illinois	5,770	6,090	28,873	7,907	1,342	-	20,009	35,128
Indiana	393	6,375	25,257	38,954	22,725	_	20,000	- 00,120
	333	40	3,190	4,617	22,125	_	_	_
lowa	_		,	,	_	_	44.000	
Kansas		4,159	7,477	9,700			14,690	5,102
Kentucky	-	_	4,149	1,014	3,220	1,906	-	
Michigan	2,474	87	13,974	16,556	4,504	4,515	36,120	74,610
Minnesota	7,122	8,503	16,471	15,695	6,710	2,925	3,744	2,301
Missouri	1,485	1,789	8,014	9,619	_	_	7,392	1,836
Nebraska	422	374	4,486	5,173	_	_	_	_
North Dakota	400	856	3,641	1,449	4,284	_	65	_
Ohio	90	35	48,627	39,615	4,270	5,047	82	_
Oklahoma	_	_	11,563	5,278	, <u> </u>	, <u> </u>	_	_
South Dakota	375	283	2,461	5,036	_	_	_	_
Tennessee	1,972	75	4,760	8,158	63	74	_	_
Wisconsin	5,891	12,332	35,245	30,465	5,832	5,092	_	_
PAD District III Total		_	163,741	129,749	6	1,806	222 EEE	410 216
Alabama	_	_	26,765	32,364	-	1,000	223,555	419,216
Arkansas	_	_	931	177	6	_	2,269	5,846
	_	_	45,220	38,678	_	_	,	39,040
Louisiana	_				_	_	33,155	,
Mississippi	_	_	1,373	8,063	_	_	186,282	363,741
New Mexico	_	_	7,003	7,128	_			
Texas	_	_	82,449	43,339	_	1,806	1,849	10,589
PAD District IV Total	576	514	3,336	5,809	10,356	5,073	_	_
Colorado	-	158	131	5,005	10,550	5,075	_	_
	36	176	56		_	_	_	_
Idaho			50	65		- - 070	_	_
Montana	50	31		500	7,181	5,073	_	_
Utah Wyoming	482 7	146 3	2,985 164	4,918 321	3,175	_	_	_
PAD District V Total	4,761 _	98,714 _	50,550 6,186	27,947	28,620	15,658	443,780	357,516 _
Arizona	_		628	1,030	_	_	_	_
California		2 1 1 2			932	28	_	_
	76	3,113	3,611	1,597			440.700	257 447
Hawaii	490	89,894	10,986	515	26,710	15,585	443,728	357,147
Nevada	31	197	9,148	4,068	45	21		369
Oregon	2,157	3,775	7,409	7,328	-	_	52	_
Washington	2,006	1,735	12,582	13,409	932	24	_	_

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

	Vessel Bu	ınkering	Milit	ary	All Ot	her	То	tal
Destination	1997	1998	1997	1998	1997	1998	1997	1998
U.S. Total	5,010,059	5,620,417	42,164	33,648	4,065	3,549	12,504,135	14,729,841
PAD District I Total	1,399,153	1,525,575	34,641	26,095	3,898	3,460	7,576,621	9,186,585
Subdistrict IA Total	61,648	10,855	6,027	6,651	511	426	2,128,624	2,076,057
Connecticut	238	260	857	481	186	136	579,254	548,015
Maine	10	9,276	4,784	5,543	291	290	433,002	464,503
Massachusetts	61,209	937	387	627	34	_	973,408	899,971
New Hampshire	130	317	_	_	_	_	88,179	113,042
Rhode Island	60	65	_	_	_	_	40,345	36,046
Vermont	_				_	_	14,436	14,479
Subdistrict IB Total	822,238	975,316	14,141	10,102	-	-	2,607,954	3,372,783
Delaware	73,277	72,240	1,076	165	_	_	205,514	221,232
District of Columbia					_	_	1,539	222
Maryland	26,375	54,396	5,929	5,810	_	_	164,435	344,371
New Jersey	290,401	347,970	6,977	3,333	_	_	411,416	534,299
New York	228,003	211,902		400	_	_	1,410,207	1,667,540
Pennsylvania	204,182	288,807	159	395			414,843	605,120
Subdistrict IC Total	515,267	539,405	14,473	9,342	3,386	3,034	2,840,042	3,737,745
Florida	376,345	403,968	2,327	406	2,750	2,503	2,036,837	2,879,839
Georgia	49,330	48,114	12				188,222	118,344
North Carolina	8,830	7,144	3,522	648	637	531	267,748	257,671
South Carolina	19,564	17,411	4,973	4,663	_	_	114,232	114,383
Virginia	61,198	62,769	3,639	3,625	_	_	222,686	363,702
West Virginia	_	_	_	-	_	_	10,317	3,806
PAD District II Total	26,055	25,733	382	726	59	19	406,131	405,247
Illinois	2,106	1,473	3	468	_	_	58,104	51,065
Indiana	17,609	15,965	_	_	-	_	65,984	61,294
lowa	_	_	_	_	_	_	3,190	4,657
Kansas	_	_	_	140	_	_	22,167	19,102
Kentucky			_	_	_		7,369	2,920
Michigan	2,306	4,326	_	_	25	19	59,403	100,113
Minnesota	425			_	_	_	34,473	29,424
Missouri	278	212	379	_	_	_	17,547	13,456
Nebraska	_	_	_	_	_	_	4,909	5,547
North Dakota	-	-	_	_	_	_	8,390	2,305
Ohio	2,612	3,035	_	-	_	_	55,681	47,732
Oklahoma	_	_	_	118	_	_	11,563	5,395
South Dakota	470	_	_	_	_	_	2,836	5,318
Tennessee	179	700	_	_	-	_	6,975	8,307
Wisconsin	540	722	_	_	34	-	47,542	48,611
PAD District III Total	1,914,358	2,465,867	700	1,361	44	37	2,302,404	3,018,037
Alabama	86,673	43,593	_	_	_	_	113,438	75,957
Arkansas	-	-	_	_	_	_	3,205	6,024
Louisiana	869,435	1,068,698	700	_	_	_	948,510	1,146,416
Mississippi	55,824	54,858	_	_	_	-	243,479	426,662
New Mexico	-	4 000 740	_	4 004	44	37	7,047	7,165
Texas	902,426	1,298,719	_	1,361	_	_	986,724	1,355,814
PAD District IV Total	-	_	-	_	61	33	14,329	11,429
Colorado	_	_	_	_	17	_	148	163
Idaho	_	_	_	_	4	2	97	243
Montana	_	_	_	_	_	_	7,231	5,603
Utah	_	_	_	_	23	26	6,666	5,091
Wyoming	_	_	_	_	16	5	188	328
PAD District V Total	1,670,493	1,603,242	6,442	5,466	4	_	2,204,649	2,108,543
Alaska	96	375	_	_	_	_	6,283	375
Arizona	_	_	_	_	_	_	628	1,030
California	945,817	900,261	3,538	1,662	_	_	953,975	906,661
Hawaii	19,549	19,330	2,291	896	_	_	503,754	483,367
Nevada	_	_	_	_	_	_	9,224	4,654
Oregon	144,373	193,131		_	-	_	153,991	204,234
Washington	560,658	490,146	612	2,909	4	_	576,795	508,222

Dashes (-) = No data reported.

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

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

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

5	Reside	ntial	Comme	ercial	Indust	rial
Destination	1997	1998	1997	1998	1997	1998
U.S. Total	688,025	802,348	182,559	230,743	110,738	123,246
PAD District I Total	555,496	659,105	146.401	189,089	66,284	75,519
Subdistrict IA Total	100,429	133,998	18,515	27,038	5,190	11,808
Connecticut	6,020	5,304	4,357	7,381	1,608	2,180
Maine	55,003	78,969	6,581	10,150	1,388	2,107
Massachusetts	7,965	8,257	1,953	2,957	710	884
New Hampshire	19,986	26,041	2,437	2,397	762	462
Rhode Island		1,731	2,322	2,826	132	512
Vermont	10,015	13,696	865	1,327	591	5,663
Subdistrict IB Total Delaware	222,668 5,087	250,726 6,884	97,417 656	124,659 512	48,276 246	48,778 41
District of Columbia	247	232	8,495	12,306	18	41
Maryland	25,085	30,226	9,531	13,165	1,121	4,211
New Jersey	12,283	12,939	31,496	45,545	27,498	18,627
New York	73,256	78,389	33,660	41,222	14,508	20,289
Pennsylvania	106,710	122,056	13,578	11,908	4,884	5,609
Subdistrict IC Total	232,399	274,381	30,469	37,392	12,818	14,932
Florida	8,485	7,031	2,257	2,737	2,085	3,304
Georgia	5,685	7,199	1,169	1,147	762	1,240
North Carolina	109,345	125,513	8,611	10,943	4,154	4,209
South Carolina	25,640	28,548	677	1,984	2,629	4,202
Virginia	66,479	86,216	15,615	18,190	802	821
West Virginia	16,765	19,874	2,140	2,390	2,386	1,156
PAD District II Total	108,138	115,109	29,328	30,393	19,238	20,747
Illinois	4,576	5,053	4,531	1,636	3,831	5,649
Indiana Iowa	12,707 1,185	12,605 1,063	3,639 343	2,162 133	1,257 208	2,024 307
Kansas	486	748	1,169	358	175	232
Kentucky	20,393	25,670	4,751	5,480	3,973	1,964
Michigan	10,683	11,437	2,331	2,754	1,014	1,713
Minnesota	2,168	3,054	1,072	1,308	64	65
Missouri	1,879	2,075	862	765	341	164
Nebraska	294	402	109	120	20	31
North Dakota	224	254	22	43	6	3
Ohio	32,503	32,527	5,318	9,159	6,351	5,862
Oklahoma	585	527	684	878	298	183
South Dakota Tennessee	245 18,357	213 17,828	24 4,159	19 5,160	10 1,317	9 2,176
Wisconsin	1,852	1,654	314	419	373	364
PAD District III Total	40.069	7.740	2.040	2.004	46.064	40.072
Alabama	10,068 2,407	7,748 1,692	2,949 374	3,984 878	16,264 2,474	18,873 1,595
Arkansas	789	627	220	286	166	1,393
Louisiana	3,865	2,886	110	227	902	1,072
Mississippi	901	1,017	533	276	1,209	2,093
New Mexico	224	242	120	119	202	308
Texas	1,881	1,284	1,593	2,198	11,311	13,693
PAD District IV Total	1,310	1,933	462	801	1,249	606
Colorado	799	1,015	205	366	66	68
Idaho	158	580	44	139	169	135
Montana	73	107	10	4	3	5
Utah	217	163	149	225	96	135
Wyoming	63	68	54	67	915	262
PAD District V Total	13,013	18,453	3,419	6,477	7,703	7,502
Alaska	6	35	14	14	_	2
Arizona	96 5 657	112	160	60	77 7.261	167
California Hawaii	5,657	9,959	1,737 7	2,663 5	7,261 13	6,637
Nevada	1 229	406	32	88	60	6 22
Oregon	1,438	2,768	927	2,628	74	543
Washington	5,587	5,173	542	1,020	218	126

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

Postford on	Farr	n	All Ot	her	Tot	al
Destination	1997	1998	1997	1998	1997	1998
U.S. Total	21,556	26,823	7,054	13,420	1,009,932	1,196,580
PAD District I Total	7,880	9,557	2,563	7,916	778.624	941,185
Subdistrict IA Total	908	1,224	243	424	125,286	174,493
Connecticut	16	24		18	12.000	14,906
Maine	228	377	36	74	63,237	91,678
Massachusetts	139	49	24	24	10,791	12,171
New Hampshire	239	205	88	165	23,513	29,269
Rhode Island	_	_	2	36	3,897	5,106
Vermont	285	569	93	107	11,848	21,362
Subdistrict IB Total	1,430	1,481	1,434	2,580	371,224	428,225
Delaware	22	27	-	2,300	6,012	7,466
District of Columbia	_	_	_	_	8,761	12,538
Maryland	574	500	23	39	36,335	48,141
New Jersey	17	16	141	127	71,435	77,254
New York	267	277	381	887	122,072	141,064
Pennsylvania	549	662	889	1,526	126,610	141,762
Subdistrict IC Total	5,541	6, 851	886	4,912	282,114	338,467
	89	144	20	3,418	12.936	16.634
Florida				,	,	-,
Georgia	17	640	226	52	7,859	10,279
North Carolina	2,081	1,651	464	246	124,655	142,561
South Carolina	188	364	34	53	29,168	35,152
Virginia	2,938	3,069	97	1,057	85,930	109,353
West Virginia	229	983	46	86	21,566	24,489
PAD District II Total	11,647	14,671	3,462	2,292	171,813	183,213
Illinois	1,805	2,187	654	124	15,397	14,649
Indiana	1,337	1,204	353	180	19,294	18,176
lowa	901	1,063	23	50	2,660	2,615
Kansas	512	595	94	160	2,436	2,092
Kentucky	1,550	2,504	199	144	30,865	35,762
Michigan	515	281	329	86	14,873	16,272
Minnesota	940	942	46	94	4,289	5,464
Missouri	114	389	50	89	3,245	3,481
Nebraska	464	369	94	45	981	967
North Dakota	19	16	13	18	284	335
Ohio	2,666	4,166	1,218	1,008	48,057	52,722
Oklahoma	265	259	67	74	1,899	1,922
South Dakota	81	42	8	_	368	283
Tennessee	309	427	228	153	24,369	25,744
Wisconsin	169	226	87	66	2,794	2,730
PAD District III Total	620	689	606	2,338	30,506	33,633
Alabama	12	10	62	55	5,329	4,230
Arkansas	147	49	104	561	1,425	1,636
Louisiana	12	45	235	1,244	5,123	5,474
Mississippi	62	33	11	66	2,717	3,485
New Mexico	51	48	7	17	604	733
Texas	336	505	187	394	15,308	18,074
DAD District IV Total	-44	400		202		0.000
PAD District IV Total	541	190	68	293	3,630	3,822
Colorado	125	122	32	280	1,227	1,850
Idaho	381	39	_	_	752	893
Montana	2	2	_	_	89	118
Utah Wyoming	28 5	11 16	16 20	5 8	506 1,057	539 423
	869	1,716	354	580		
PAD District V Total	- 009	1,7 10	354 1	360 1	25,358 22	34,727 51
Arizona	12	19	2	95	346	452
California	224	428	150	241	15,030	19,927
Hawaii	-	- -	-	241	21	13,327
Nevada	10	29	_	1	330	546
Oregon	53	124	_ 117	97	2,610	6,158
Washington	569	1,116	83	146	6,999	7,581

Dashes (-) = No data reported.

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

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

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

-		Varacana		
Destination	No. 1	No. 2	Total	Kerosene
J.S. Total	132,686	5,687,272	5,819,958	802,348
PAD District I Total	12,158	4,896,741	4.908.899	659,105
Subdistrict IA Total	4,508	1,979,888	1,984,396	133,998
Connecticut	225	485,500	485,725	5,304
Maine	2,781	328,919	331,700	78,969
Massachusetts	590	745,119	745,709	8,257
New Hampshire	912	188,772	189,684	26,041
Rhode Island	1	143,394	143,395	1,731
	<u>'</u>		,	,
Vermont		88,183	88,183	13,696
Subdistrict IB Total	5,256	2,513,511	2,518,767	250,726
Delaware	326	35,009	35,335	6,884
District of Columbia		10,330	10,330	232
Maryland	775	188,687	189,462	30,226
New Jersey	745	400,113	400,858	12,939
New York	1	1,169,876	1,169,877	78,389
Pennsylvania	3,409	709,496	712,905	122,056
Subdistrict IC Total	2,395	403,343	405,738	274,381
Florida	47	4,735	4,782	7,031
Georgia	53	4,054	4,107	7,199
North Carolina	100	131,350	131,450	125,513
South Carolina	443	20,433	20,876	28,548
Virginia	1,023	219,474	220,497	86,216
West Virginia	728	23,296	24,024	19,874
AD District II Total	71,408	587,899	659,307	115,109
Illinois	2,844	15,503	18.347	5,053
Indiana	7,260	39,049	46,309	12,605
lowa	4,557	19,602	24,159	1,063
Kansas	248	254	502	748
Kentucky	750	24,938	25,688	25,670
Michigan	8,725	107,803	116,528	11,437
Minnesota	19,718	91,914	111,632	3,054
	,	10,735	12,910	2,075
Missouri	2,175	•	*	,
Nebraska	1,476	1,362	2,838	402
North Dakota	4,617	18,734	23,351	254
Ohio	2,629	124,421	127,050	32,527
Oklahoma	12	42	54	527
South Dakota	4,292	12,499	16,791	213
Tennessee	1,415	8,697	10,112	17,828
Wisconsin	10,691	112,345	123,036	1,654
PAD District III Total	49	423	472	7,748
Alabama	44	218	262	1,692
Arkansas	_	22	22	627
Louisiana	_	44	44	2,886
Mississippi	3	42	45	1,017
New Mexico	1	85	86	242
Texas	_	11	11	1,284
PAD District IV Total	11,995	27,118	39,113	1,933
Colorado	293	523	816	1,015
Idaho	3,319	13,037	16,356	580
Montana	7,737	10,014	17,751	107
Utah	465	2,614	3,079	163
Wyoming	182	931	1,113	68
AD District V Total	37,076	175,091	212,167	18,453
Alaska	28,825	44,594	73,419	35
Arizona	20	177	197	112
California	420	6,995	7.415	9.959
Hawaii	420	0,993	14	3,333
Nevada	382	11,589	11,971	406
		•		
Oregon	3,589	38,394	41,983	2,768
Washington	3,841	73,328	77,169	5,173

Dashes (-) = No data reported.

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

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

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

Table 8. Sales for Commercial Use: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 1998 (Thousand Gallons)

			Di	stillate Fuel C	il				
Destination			No. 2 D	istillate				Residual	Kerosene
	No. 1 Distillate	No. 2 Fuel Oil	Low Sulfur Diesel	High Sulfur Diesel	No. 2 Total	No. 4 Fuel	Total Distillate	Fuel Oil	
U.S. Total	84,345	1,351,406	1,059,981	531,096	2,942,482	206,522	3,233,350	715,111	230,743
PAD District I Total	4,603	1,170,098	418,052	220,142	1,808,291	206,255	2,019,149	574,886	189,089
Subdistrict IA Total	381	422,220	92,392	26,675	541,286	54,576	596,243	138,729	27,038
Connecticut	2	83,755	18,172	8,204	110,132	5,393	115,527	8,443	7,381
Maine	269	90,937	24,765	2,959	118,661	1,774	120,703	14,851	10,150
Massachusetts	-	162,992	25,530	9,442	197,964	39,382	237,347	74,743	2,957
New Hampshire	104	38,450	10,749	544	49,742	4,394	54,240	14,594	2,397
Rhode Island	3 2	17,004	5,961	2,393	25,358	1,864	27,225	20,467	2,826
Vermont		29,081	7,215	3,132	39,429	1,769	41,201	5,631	1,327
Subdistrict IB Total	2,358	614,452	157,325	75,924	847,701	148,476	998,535	423,295	124,659
Delaware District of Columbia	_	6,737 11,352	3,332 473	973 929	11,041 12,754	1,677 1,223	12,718 13,976	6,541 222	512 12,306
Maryland	972	44,844	39,714	25,418	109,976	1,223	112,219	2,217	13,165
New Jersey	42	87,059	24,402	8,278	119,739	14,666	134,447	25,816	45,545
New York	1,133	342,036	46,305	10,166	398,507	123,629	523,270	356,962	41,222
Pennsylvania	211	122,424	43,100	30,160	195,684	6,010	201,905	31.537	11,908
Subdistrict IC Total	1,865	133,426	168,334	117,543	419,304	3,203	424,371	12,861	37,392
Florida	1,005	10,024	33,205	17,831	61,060	104	61,163	522	2,737
Georgia	160	5,573	15,476	10,231	31,279	104	31,440	61	1,147
North Carolina	1,293	43,730	34,471	31,728	109,929	2,274	113.495	6,015	10,943
	1,293	,	,	,	,	13	-,	341	,
South CarolinaVirginia	85	7,173 63,851	44,620	14,013 37,575	65,805 135.199	748	65,974	5,922	1,984 18,190
West Virginia	170	3,076	33,773 6,789	6,166	16,031	65	136,032 16,267	5,922	2,390
PAD District II Total	42,823	139,505	266,578	146,466	552,548	214	595,586	40,998	30,393
Illinois	10,765	19,147	35,441	16,419	71,007	1	81,773	6,090	1,636
Indiana	2,667	18,111	17,744	23,950	59,805	_	62,472	6,375	2,162
lowa	1,404	5,983	11,765	1,182	18,930	_	20,334	40	133
Kansas	2,203	1,151	14,726	1,288	17,165	_	19,368	4,159	358
Kentucky	413	6,920	23,894	15,156	45,970	113	46,496	_	5,480
Michigan	4,322	15,884	33,180	12,749	61,813	_	66,135	87	2,754
Minnesota	3,434	17,523	12,323	3,727	33,572	_	37,007	8,503	1,308
Missouri	2,119	2,305	18,307	28,166	48,778	49	50,946	1,789	765
Nebraska	3,330	1,543	3,549	1,314	6,406	_	9,736	374	120
North Dakota	1,009	4,662	5,291	856	10,809	_	11,818	856	43
Ohio	4,227	13,498	14,265	17,372	45,135	_	49,362	35	9,159
Oklahoma	804	3,593	20,231	2,557	26,381	_	27,186	_	878
South Dakota	1,300	4,969	2,934	1,213	9,116	_	10,416	283	19
Tennessee	264	2,243	25,230	13,900	41,373	51	41,688	75	5,160
Wisconsin	4,563	21,972	27,698	6,618	56,287	_	60,850	12,332	419
PAD District III Total	4,739	7,282	132,093	66,858	206,233	_	210,972	_	3,984
Alabama	1,091	3,423	14,213	6,178	23,814	_	24,904	_	878
Arkansas	86	67	9,775	5,800	15,642	_	15,728	_	286
Louisiana	165	194	3,909	9,023	13,127	_	13,291	_	227
Mississippi	42	1,890	8,492	5,631	16,012	_	16,054	_	276
New Mexico	256	123	4,086	1,607	5,816	_	6,071	_	119
Texas	3,100	1,585	91,618	38,619	131,822	_	134,923	-	2,198
PAD District IV Total	7,954	9,336	61,978	11,429	82,743	_	90,697	514	801
Colorado	3,087	2,603	31,033	1,375	35,011	_	38,098	158	366
Idaho	1,128	1,738	11,846	3,385	16,969	_	18,097	176	139
Montana	955	1,583	2,348	119	4,050	_	5,005	31	4
Utah	1,490	1,547	13,842	6,133	21,522	_	23,012	146	225
Wyoming	1,295	1,865	2,909	417	5,190	-	6,485	3	67
PAD District V Total	24,225	25,185	181,280	86,201	292,666	54	316,946	98,714	6,477
Alaska	18,299	12,542	397	15,657	28,597	10	46,906	_	14
Arizona	276	49	23,557	25,336	48,941	43	49,260	_	60
California	623	3,463	100,422	12,199	116,084	_	116,706	3,113	2,663
Hawaii	1	80	6,767	2,400	9,246	_	9,247	89,894	5
Nevada	542	2,775	7,813	2,420	13,008	_	13,550	197	88
Oregon	953	2,016	23,048	17,653	42,717	1	43,671	3,775	2,628

Dashes (-) = No data reported.

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

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

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

Table 9. Sales for Industrial Use: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 1998 (Thousand Gallons)

			Di	stillate Fuel C	oil				
Destination			No. 2 D	istillate				Residual	Kerosene
	No. 1 Distillate	No. 2 Fuel Oil	Low Sulfur Diesel	High Sulfur Diesel	No. 2 Total	No. 4 Fuel	Total Distillate	Fuel Oil	
U.S. Total	148,152	548,068	620,472	1,093,405	2,261,945	52,259	2,462,355	1,797,906	123,246
PAD District I Total	21,405	288,983	108,211	318,050	715,245	41,575	778,225	1,435,165	75,519
Subdistrict IA Total	165	67,016	7,552	7,856	82,424	16,225	98,815	457,718	11,808
Connecticut	-	12,575	736	109	13,420	9,574	22,994	15,871	2,180
Maine Massachusetts	165 -	29,201 12,251	1,838 2,263	971 3,437	32,010 17,951	374 3,295	32,549 21,246	285,824 93,910	2,107 884
New Hampshire	_	2,588	1,684	1,850	6,122	880	7,002	37,752	462
Rhode Island	_	5,816	574	630	7,021	883	7,902	15,514	512
Vermont	_	4,584	457	859	5,899	1,219	7,119	8,848	5,663
Subdistrict IB Total	15,485	121,015	33,265	70,983	225,263	17,393	258,142	261,037	48,778
Delaware	4	1,303	2,501	854	4,658	87	4,750	32,470	41
District of Columbia	_	249	1	5	254	46	300	_	_
Maryland	15,254	36,100	6,590	10,158	52,848	898	69,000	32,872	4,211
New Jersey	30	28,699	825	5,974	35,498	6,113	41,642	42,908	18,627
New York	75	25,147	6,587	4,844	36,577	6,236	42,889	97,759	20,289
Pennsylvania	122	29,517	16,762	49,147	95,427	4,013	99,561	55,027	5,609
Subdistrict IC Total	5,755	100,952	67,394	239,212	407,558	7,957	421,269	716,409	14,932
Florida	129	9,956	22,591	17,769 25.088	50,317	4,334	54,779	215,754	3,304
Georgia North Carolina	1,078 1,678	9,697 34,928	10,295 14,568	30,366	45,080 79.862	264 2,696	46,422 84,236	63,797 243,334	1,240 4,209
South Carolina	443	9,625	3,523	10,166	23,315	149	23,907	83,726	4,209
Virginia	431	23,783	11,338	54,954	90,075	514	91,020	105,993	821
West Virginia	1,996	12,964	5,078	100,868	118,910	-	120,906	3,806	1,156
PAD District II Total	78,028	229,508	142,153	368,649	740,310	5,147	823,485	199,235	20,747
Illinois	5,568	17,531	17,269	82,744	117,543	12	123,124	7,907	5,649
Indiana	1,975	63,631	19,907	24,514	108,053	154	110,181	38,954	2,024
lowa	14,938	3,385	11,954	2,976	18,315	98	33,351	4,617	307
Kansas	1,804	3,157	4,667	4,472	12,296	1,791	15,890	9,700	232
Kentucky	4,669	14,893	6,784	136,569	158,246	751	163,665	1,014	1,964
Michigan	6,091	14,221	12,187	21,739	48,148	_	54,239	16,556	1,713
Minnesota	4,795	15,139	11,646	22,531	49,315	316	54,426	15,695	65
Missouri	6,314	19,761	11,812	6,990	38,563	411	45,288	9,619	164
Nebraska	15,649	1,808	1,479	2,667	5,954	359	21,961	5,173	31
North Dakota Ohio	2,848 719	3,002 40,273	1,520 10,402	1,132 21,502	5,654 72,178	277	8,502 73,174	1,449 39,615	5,862
Oklahoma	218	40,273 517	1,891	6,759	9,167	-	9,384	5,278	183
South Dakota	445	1,473	1,243	0,739	2,717	65	3,226	5,036	9
Tennessee	2,343	6,525	14,411	18,847	39,783	771	42,897	8,158	2,176
Wisconsin	9,653	24,191	14,981	15,207	54,379	144	64,176	30,465	364
PAD District III Total	12,934	12,108	97,803	184,085	293,996	3,553	310,483	129,749	18,873
Alabama	454	6,899	18,261	46,207	71,367	24	71,846	32,364	1,595
Arkansas	27	155	2,161	12,943	15,259	1,257	16,542	177	113
Louisiana	4	289	3,105	8,988	12,382	543	12,928	38,678	1,072
Mississippi	1,927	3,816	4,705	9,866	18,386	1,536	21,850	8,063	2,093
New Mexico Texas	4,045 6,477	924 24	25,393 44,179	7,240 98,842	33,557 143,045	193	37,602 149,715	7,128 43,339	308 13,693
PAD District IV Total	13,625	9,348	128,302	23,136	160,786	84	174,495	5,809	606
Colorado	1,556	924	16,379	2,701	20,004	_	21,560	5	68
Idaho	4,552	233	9,711	11,653	21,598	_	26,149	65	135
Montana	1,660	515	12,036	868	13,419	-	15,079	500	
Utah Wyoming	1,332 4,524	1,729 5,947	22,206 67,969	6,913 1,002	30,848 74,918	- 84	32,180 79,526	4,918 321	135 262
PAD District V Total	22,160	8,121	144,003	199,484	351,608	1,900	375,668	27,947	7,502
Alaska	16,535	4,136	-	12,305	16,441	_	32,976	-	2
Arizona	2,946	_	28,211	64,501	92,712	_	95,658	1,030	167
California	109	1,085	47,180	17,909	66,174	1,900	68,183	1,597	6,637
Hawaii	-	76	590	1,324	1,990	_	1,990	515	6
Nevada	1,488	411	46,956	74,689	122,057	_	123,545	4,068	22
Oregon	923	1,283	13,589	21,597	36,469 15,765	-	37,392	7,328	543
Washington	159	1,129	7,478	7,159	15,765	-	15,925	13,409	126

Dashes (-) = No data reported.

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

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

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

Table 10. Sales for Farm Use: Distillate Fuel Oil and Kerosene; Sales for Electric Utility and Oil Company Uses: Distillate Fuel Oil and Residual Fuel Oil, 1998 (Thousand Gallons)

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

Dashes (-) = No data reported.

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

Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 1998.
• Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1998, (DOE/EIA-0340(98)/1).

Table 11. Sales for Transportation Use: Distillate Fuel Oil and Residual Fuel Oil, 1998 (Thousand Gallons)

-	Railroad Use	Vessel B	unkering	On-Highway Diesel	Total Transp	ortation Use
Destination	Distillate Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil
U.S. Total	3,180,124	2,595,076	5,620,417	30,150,191	35,925,392	5,620,417
PAD District I Total	491,650	520,608	1,525,575	9,398,405	10,410,663	1,525,575
Subdistrict IA Total	29,317	47,876	10,855	942,889	1,020,082	10,855
Connecticut	7,068	2,847	260	222,076	231,991	260
Maine	8,036	12,565	9,276	135,254	155,855	9,276
Massachusetts	12,805	19,787	937	357,050	389,642	937
New Hampshire	17	536	317	103,225	103,778	317
Rhode Island	270	11,641	65	48,713	60,624	65
Vermont Subdistrict IB Total	1,121	499		76,571	78,192	075 246
Delaware	128,258 445	155,557 2,644	975,316 72,240	3,420,503 62,453	3,704,318 65,541	975,316 72,240
District of Columbia	4,672	2,044	72,240	21,412	26,087	72,240
Maryland	6,024	20,673	54,396	425,381	452,078	54,396
New Jersey	44,261	92,631	347,970	717,711	854,602	347,970
New York	24,067	4,899	211,902	917,161	946,128	211,902
Pennsylvania	48,789	34,707	288,807	1,276,385	1,359,881	288,807
Subdistrict IC Total	334,075	317,174	539,405	5,035,013	5,686,263	539,405
Florida	106,370	161,733	403,968	1,182,855	1,450,957	403,968
Georgia	76,415	10,528	48,114	1,231,023	1,317,965	48,114
North Carolina	45,996	36,183	7,144	892,816	974,995	7,144
South Carolina	16,635	13,937	17,411	563,590	594,162	17,411
Virginia West Virginia	68,093 20,568	29,752 65,042	62,769 —	895,185 269,544	993,030 355,154	62,769 -
-	4 004 000	004.070	05.700	40.005.004	40.455.040	05 700
PAD District II Total	1,324,803	624,376	25,733	10,205,834	12,155,013	25,733
Illinois	110,860	44,684	1,473	1,077,513	1,233,057	1,473
Indiana Iowa	68,949 48,021	27,349 7,595	15,965 —	1,129,693 479,789	1,225,991 535,405	15,965
Kansas	80,810	7,555	_	372,593	453,403	_
Kentucky	102,663	95,612	_	690,621	888,895	_
Michigan	55,047	8,241	4,326	865,113	928,401	4,326
Minnesota	96,950	4,028	,	546,107	647,085	_
Missouri	30,118	363,176	212	933,682	1,326,976	212
Nebraska	220,015	39	_	360,777	580,831	_
North Dakota	19,930	544		142,612	163,086	
Ohio	147,847	9,191	3,035	1,412,948	1,569,986	3,035
Oklahoma	208,606	548	_	566,471	775,624	_
South Dakota Tennessee	1,351 101,523	60.662	_	141,809 821,331	143,160 983,515	_
Wisconsin	32,115	2,708	722	664,775	699,598	722
PAD District III Total	676,222	1,098,953	2,465,867	5,125,135	6,900,310	2,465,867
Alabama Arkansas	43,176 62,776	28,847 5,549	43,593	701,742 560,831	773,766 629.156	43,593
Louisiana	31,054	663,667	1,068,698	541,189	1,235,910	1,068,698
Mississippi	23,277	25,392	54,858	494,855	543,523	54,858
New Mexico	13,874	20,002	-	393,110	406,984	
Texas	502,065	375,498	1,298,719	2,433,408	3,310,971	1,298,719
PAD District IV Total	277,361	170	_	1,303,954	1,581,485	_
Colorado	62,169	_	_	383,801	445,970	_
Idaho	34,231	170	_	184,607	219,008	_
Montana	63,079	_	_	171,675	234,754	_
Utah	26,672	_	_	303,331	330,003	_
Wyoming	91,211	_	_	260,540	351,751	-
PAD District V Total	410,088	350,970	1,603,242	4,116,863	4,877,921	1,603,242
Alaska	5,111	116,596	375	68,548	190,255	375
Arizona	2,901	_	_	602,809	605,710	_
California	262,435	119,358	900,261	2,339,261	2,721,055	900,261
Hawaii	.	23,112	19,330	28,956	52,068	19,330
Nevada	4,876		-	228,955	233,831	-
Oregon	62,391	17,512	193,131	418,953	498,856	193,131
Washington	72,373	74,391	490,146	429,381	576,146	490,146

Dashes (-) = No data reported.

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

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

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

Table 12. Sales for Military, Off-Highway, and All Other Uses: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 1998

		Mili	tary			f-Highway llate Fuel O	il		All Other	
Destination	Diesel	Other Distillate	Total Distillate	Residual Fuel Oil	Construction	Other	Total	Distillate Fuel Oil	Residual Fuel Oil	Kerosene
U.S. Total	325,527	26,661	352,189	33,648	1,989,058	488,142	2,477,199	-	3,549	13,420
PAD District I Total	26,513	14,348	40,860	26,095	513,113	127,631	640,744	_	3,460	7,916
Subdistrict IA Total	2,299	1,556	3,855	6,651	47,383	16,763	64,146	_	426	424
Connecticut	100	781	881	481	7,118	737	7,854	-	136	18
Maine	302	705	1,007	5,543	11,103	10,964	22,066	_	290	74
Massachusetts	476	50	525	627	18,870	1,281	20,151	-	-	24
New Hampshire	554	- 11	554 749	_	5,297	2,924	8,221	_	_	165
Rhode Island Vermont	738 130	9	138	_	2,701 2,296	272 585	2,972 2,881	_	_	36 107
Subdistrict IB Total	4,922	9,864	14,786	10,102	163,683	10,262	173,945	_	_	2,580
Delaware	670	490	1,160	165	5,826	10,202	5,954	_	_	2,300
District of Columbia	90	72	162	-	460	-	460	_	_	_
Maryland	1,555	1,886	3,441	5,810	25,160	1,487	26,647	_	_	39
New Jersey	1,013	18	1,030	3,333	37,816	3,287	41,103	_	_	127
New York	297	368	666	400	47,381	1,799	49,180	_	_	887
Pennsylvania	1,297	7,030	8,327	395	47,040	3,563	50,602	_	_	1,526
Subdistrict IC Total	19,291	2,928	22,219	9,342	302,047	100,606	402,653	-	3,034	4,912
Florida	4,649	-	4,649	406	101,888	12,203	114,091	_	2,503	3,418
Georgia	2,023	_	2,023	-	41,149	31,621	72,770	_	-	52
North Carolina	1,758	- 024	1,758	648	82,234	9,916	92,151	_	531	246
South Carolina	2,602 8,157	921 2,007	3,523 10,165	4,663 3,625	24,835 46,250	23,141 19,527	47,976 65,776	_	_	53 1,057
Virginia West Virginia	102	2,007	10,103	5,025	5,691	4,198	9,889	_	_	86
PAD District II Total	15,964	2,052	18,016	726	576,668	108,739	685,408	_	19	2,292
Illinois	1,495	25	1,520	468	74,770	2,445	77,215	_	_	124
Indiana	97	255	352	_	30,549	16,088	46,637	_	_	180
lowa	304	-	304		42,414	8,014	50,428	_	_	50
Kansas	429	_	429	140	23,110	2,218	25,328	_	_	160
Kentucky	1,268	441	1,709	-	37,704	6,747	44,451	-	-	144
Michigan	279 293	_	279 293	_	52,543	18,256	70,799	-	19 _	86 94
Minnesota Missouri	787	_	787	_	38,525 48,324	9,512 9,693	48,036 58,016	_	_	89
Nebraska	1,187	_	1,187	_	17,298	2,354	19,652	_	_	45
North Dakota	532	93	625	_	7,726	1,007	8,732	_	_	18
Ohio	266	-	266	_	65,976	6,671	72,646	_	_	1,008
Oklahoma	541	_	541	118	34,082	3,271	37,353	_	_	74
South Dakota	329	302	632	_	6,777	1,251	8,028	_	_	_
Tennessee	1,746	185	1,931	_	57,506	11,842	69,348	_	_	153
Wisconsin	6,412	750	7,162	_	39,365	9,373	48,738	_	_	66
PAD District III Total	169,412	319	169,731	1,361	494,618	106,941	601,559	_	37	2,338
Alabama	813	240	813	_	26,519	35,266	61,786	_	_	55
Arkansas	558 1,723	319	877 1,723	_	20,098 112,931	10,921 7,711	31,019 120,641	_	_	561 1,244
Louisiana Mississippi	3,634	_	3,634	_	26,303	21,500	47,803	_	_	66
New Mexico	1,280	_	1,280	_	9,928	1,699	11,627	_	37	17
Texas	161,404	-	161,404	1,361	298,839	29,843	328,682	-	-	394
PAD District IV Total	2,095	880	2,975	_	121,986	27,485	149,471	_	33	293
Colorado	1,076	_	1,076	-	50,197	3,420	53,617	-	_	280
Idaho	102	-	102	-	13,722	11,300	25,023	-	2	_
Montana	218	_	218	_	11,238	6,827	18,065	-	-	_
Utah Wyoming	667 31	880 -	1,547 31	_	35,667 11,161	2,448 3,489	38,115 14,650	_	26 5	5 8
PAD District V Total	111,544	9,062	120,606	5,466	282,672	117,345	400,017	_	_	580
Alaska	6,738	6,418	13,156	-	9,016	20,996	30,011	_	_	1
Arizona	587	_	587	_	33,934	3,133	37,066	_	_	95
California	25,740	521	26,261	1,662	129,522	25,318	154,840	-	_	241
Hawaii	2,496	-	2,496	896	12,047	955	13,003	-	_	-
Nevada	1,306	-	1,306	_	10,897	1,695	12,592	-	-	1
Oregon	191	2 422	191	2 000	13,520	31,312	44,832	-	_	97
Washington	74,486	2,123	76,609	2,909	73,737	33,937	107,673	_	_	146

Dashes (-) = No data reported.

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

Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 1998.
• Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1998, (DOE/EIA-0340(98)/1).

Adjusted Sales of Fuel Oil and Kerosene in 1998

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

The products supplied estimates can be found in the 1994 through 1998 issues of the *Petroleum Supply An*-

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

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

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

E. 111.			Distillate Fuel Oil		
End Use	1994	1995	1996	1997	1998
J.S. Total	48,477,156	49,157,598	51,730,518	52,665,438	53,063,934
Residential	6,335,853	6,370,381	6,707,714	6,487,768	5,633,409
commercial	3,343,090	3,318,818	3,433,555	3,218,497	3,044,495
ndustrial	2,091,611	2,027,409	2,107,190	2,167,169	2,258,248
il Company	703,946	556,126	625,608	632,595	565,174
arm	3,198,640	3,230,765	3,334,420	3,304,531	3,033,405
lectric Utility	755,219	601,185	684,263	646,778	962,921
ailroad	3,063,441	3,191,023	3,266,861	3,067,400	2,833,276
essel Bunkering	2,026,899	1,978,105	2,177,608	2,107,561	2,125,568
n-Highway Diesel	24,442,609	25,576,433	26,958,668	28,614,022	30,150,191
ilitary	526,563	368,219	371,093	337,390	277,688
ff-Highway Diesel	1,988,481	1,939,133	2,063,538	2,081,728	2,179,560
Other	804	_	_	_	-

Dashes (-) = No data reported.

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

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

Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 1994-1998.
• Electric Utility data are based on data obtained on Form EIA-759, "Monthly Power Plant Report," and Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

On-Highway Diesel data are Federal Highway Administation statistics of highway special fuels use.
 Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1994-1998, (DOE/EIA-0340(94)/1 - (98)/1).

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

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

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

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

Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 1994-1998.
• Electric Utility data are based on data obtained on Form EIA-759, "Monthly Power Plant Report," and Form FERC-423, "Monthly Report of Cost and Quality

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

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

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

Note: Kerosene data in the Adjusted Sales tables (13-24) are adjusted at the national level. See Technical Note 3 for further explanation. Sources: • Kerosene data are based on data from the Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1994-1998, (DOE/EIA-0340(94)/1 - (98)/1).

of Fuels for Electric Plants.

[•] Energy Information Administration's "Petroleum Supply Annual," Volume 1, 1994-1998, (DOE/EIA-0340(94)/1 - (98)/1).

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

Destination U.S. Total	Reside	ential	Comm	ercial	Industrial		
	1997	1998	1997	1998	1997	1998	
	6,487,768	5,633,409	3,218,497	3,044,495	2,167,169	2,258,248	
PAD District I Total	5,430,114	4.783.009	2,149,556	1,967,367	725,286	758,267	
Subdistrict IA Total		1,933,505	601,436	580,952	101,021	96,280	
Connecticut		473,268	127,174	112,564	25,772	22,405	
Maine	320,965	323,193	101,863	117,608	28,695	31,715	
Massachusetts	794,329	726,585	246,015	231,260	21,784	20,701	
New Hampshire	200,855	184,820	57,418	52,849	6,118	6,822	
Rhode Island	156,304	139,718	32,155	26,526	11,356	7,701	
Vermont	100,043	85,921	36,811	40,144	7,295	6,936	
Subdistrict IB Total	2,863,086	2,454,172	1,121,148	972,927	206,444	251,521	
Delaware	39,221	34,429	14,665	12,392	8,300	4,628	
District of Columbia	11,184	10,065	21,920	13,618	284	292	
Maryland	217,332	184,602	107,495	109,341	25,745	67,230	
New Jersey	492,256	390,578	147,583	130,999	39,437	40,574	
New York	1,272,482	1,139,875	621,215	509,850	42,399	41,789	
Pennsylvania	,	694,622	208,269	196,727	90,280	97,008	
Subdistrict IC Total		395,332	426,973	413,488	417,821	410,465	
Florida		4,660	77,364	59,595	45,437	53,374	
Georgia		4,001	37,643	30,633	41,972	45,231	
North Carolina		128,080	123,977	110,584	81,572	82,075	
South Carolina	,	20,341	45,460	64,282	20,971	23,294	
Virginia		214,843	128,845	132,544	115,887	88,685	
West Virginia	26,149	23,407	13,684	15,849	111,983	117,805	
PAD District II Total	•	620,486	610,444	560,518	706,703	774,998	
Illinois	,	17,267	98,086	76,959	84,135	115,874	
Indiana	,	43,583	48,686	58,794	76,975	103,693	
lowa	,	22,736	14,242	19,137	16,503	31,388	
Kansas		472	21,047	18,227	12,417	14,954	
Kentucky		24,176	41,550	43,758	173,847	154,029	
Michigan		109,667	85,252	62,241	44,609	51,046	
Minnesota		105,059	38,852 51,995	34,828	42,829	51,221 42,621	
Missouri	,	12,150	,	47,946	35,066	,	
Nebraska North Dakota	,	2,671	7,338 11,443	9,162 11,122	4,494 8,835	20,668 8,002	
Ohio		21,976 119,569	62,374	46,456	79,096	68,865	
Oklahoma		51	25,192	25,585	8,532	8,832	
South Dakota		15,802	11,693	9,802	4,315	3,036	
Tennessee		9,517	36,776	39,234	48,822	40,371	
Wisconsin		115,792	55,918	57,267	66,226	60,397	
PAD District III Total	1,319	310	120,683	138,454	217,037	203.760	
Alabama	,	172	16,097	16,344	40,526	47,150	
Arkansas	21	15	8,100	10,322	15,955	10,856	
Louisiana	3	29	9,322	8,723	13,375	8,484	
Mississippi	11	30	9,884	10,536	27,449	14,339	
New Mexico	80	57	5,059	3,984	29,094	24,677	
Texas	5	8	72,220	88,545	90,639	98,253	
PAD District IV Total	,	42,623	113,340	98,835	200,600	190,151	
Colorado	,	889	49,802	41,516	24,853	23,495	
Idaho	24,258	17,823	19,600	19,720	32,501	28,496	
Montana		19,343	9,031	5,454	27,654	16,432	
Utah		3,356	22,654	25,077	29,082	35,067	
Wyoming	2,502	1,212	12,254	7,067	86,510	86,661	
PAD District V Total	•	186,981	224,474	279,321	317,542	331,073	
Alaska	,	64,704	31,258	41,337	25,282	29,061	
Arizona		173	21,607	43,413	89,119	84,303	
California	-, -	6,534	82,090	102,852	46,881	60,089	
Hawaii		13	12,943	8,149	2,053	1,754	
Nevada	-,	10,550	9,301	11,942	112,627	108,879	
Oregon		36,999	31,394	38,487	29,395	32,953	
Washington	61,102	68,008	35,881	33,142	12,184	14,034	

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

Destination	Oil Com	pany	Far	m	Electric Utility		
	1997	1998	1997	1998	1997	1998	
J.S. Total	632,595	565,174	3,304,531	3,033,405	646,778	962,921	
PAD District I Total	8,024	7,065	388,999	385.841	243,039	442,618	
Subdistrict IA Total	378	98	17,637	18,470	15,536	15,471	
Connecticut	119	14	3,080	3,304	2,470	5,097	
	-	-	,	,	,	,	
Maine			4,205	4,653	1,582	1,526	
Massachusetts	255	78	3,531	2,839	7,639	5,026	
New Hampshire	-	_	1,273	1,169	2,736	1,921	
Rhode Island	1	_	111	55	906	1,404	
Vermont	3	7	5,438	6,450	204	498	
Subdistrict IB Total	3,684	3,000	104,897	100,403	89,626	120,020	
Delaware	1,662	1,023	5,361	6,993	3,158	3,462	
District of Columbia	_	_	_	_	13,001	21,553	
Maryland	44	31	25,122	23,283	27,289	23,686	
New Jersey	461	289	6,209	4,769	7,290	8,741	
New York	738	748	35,687	38,605	9,464	3,789	
Pennsylvania	778	910	32,519	26,753	29,424	58,789	
,	3,962	3,967	,	,	,	,	
Subdistrict IC Total	,	•	266,465	266,969	137,877	307,126	
Florida	568	306	81,189	71,157	65,736	173,222	
Georgia	763	315	88,765	108,037	11,884	46,246	
North Carolina	191	132	33,284	34,346	16,213	31,541	
South Carolina	1	4	20,899	16,809	22,165	31,220	
Virginia	2,131	2,967	39,248	33,880	9,082	11,657	
West Virginia	307	242	3,080	2,739	12,796	13,240	
AD District II Total	50,765	43,466	1,774,798	1,582,727	177,559	252,760	
Illinois	1,600	774	214,122	204,813	34,226	49,42	
Indiana	4,495	2,203	103,494	93,281	27,206	31,547	
lowa	1, 100	2,200	216,459	192,804	3,419	8,552	
Kansas	5,975	3,064	187,045	158,601	5,296	8,386	
	618	,	42.323	43.102	9,159	8,374	
Kentucky		4,458	,	-, -	,	,	
Michigan	2,114	2,158	58,347	50,556	23,834	28,313	
Minnesota	26	267	191,087	163,613	6,563	6,763	
Missouri	84	105	62,349	59,101	6,847	10,318	
Nebraska	1,059	37	186,429	168,496	2,444	2,580	
North Dakota	3,692	4,295	96,028	85,416	5,533	40,327	
Ohio	1,487	1,491	95,490	83,212	27,073	35,456	
Oklahoma	29,362	24,289	75,658	69,326	869	3,258	
South Dakota	190	· _	78,569	68,458	5	825	
Tennessee	64	326	74,792	58,446	14,062	13,767	
Wisconsin	_	-	92,604	83,502	11,024	4,873	
PAD District III Total	459,986	392,981	478,181	437,615	48,406	53,256	
Alabama	6,237	243	25,151	19,460	6,285	11,014	
Arkansas	1,288	1,168	78,928			11,575	
	,	,	,	77,603	5,886	,	
Louisiana	237,031	230,650	37,911	35,070	14,779	14,590	
Mississippi	1,072	1,368	74,937	69,675	2,557	4,070	
New Mexico	16,389	12,120	9,680	10,215	1,310	786	
Texas	197,969	147,434	251,575	225,592	17,588	11,222	
AD District IV Total	44,047	30,315	272,160	209,537	7,084	8,24	
Colorado	7,708	4,903	86,138	74,291	451	550	
Idaho	1	_	62,850	41,812	34	29	
Montana	2,237	1,745	78,837	55,691	15	_	
Utah	6,765	5,528	25,600	22,610	2,450	3,528	
Wyoming	27,336	18,140	18,735	15,134	4,134	4,134	
AD District V Total	69,773	91,346	390,392	417,685	170,691	206,046	
Alaska	62,793	83,626	2	417,003	56,410	68,820	
Arizona	71	85	24,093	23,062	3,309	3,461	
			,	,		,	
California	4,036	5,334	276,302	295,431	6,602	9,012	
Hawaii	1,442	1,123	5,409	8,277	102,024	121,998	
Nevada	383	269	5,049	4,903	1,738	1,787	
Oregon	94	213	34,006	29,224	448	449	
Washington	954	697	45,531	56,786	159	519	

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

Destination U.S. Total	Railr	oad	Vessel Bu	ınkering	On-Highway		
	1997	1998	1997	1998	1997	1998	
	3,067,400	2,833,276	2,107,561	2,125,568	28,614,022	30,150,191	
PAD District I Total	537,406	479,042	502,983	507,256	8,951,981	9,398,405	
Subdistrict IA Total		28,566	61,326	46,648	913,558	942,889	
Connecticut		6,887	3,254	2,774	216,062	222,076	
Maine	,	7,830	12,513	12,243	138,527	135,254	
Massachusetts		12,476	33,437	19,280	344,131	357,050	
New Hampshire		17	385	522	E _{64,481}	103,225	
Rhode Island		263	11,272	11,343	72,916	48,713	
Vermont		1,092	465	487	77,441	76,571	
Subdistrict IB Total	143,640	124,968	143,559	151,568	3,306,771	3,420,503	
Delaware	432	433	2,142	2,576	63,187	62,453	
District of Columbia	5,200	4,552	_	3	21,572	21,412	
Maryland	30,929	5,870	11,789	20,143	370,944	425,381	
New Jersey	53,852	43,126	104,768	90,255	E633,028	717,711	
New York	8,972	23,450	5,166	4,774	^E 977,851	917,161	
Pennsylvania	44,256	47,538	19,694	33,817	1,240,189	1,276,385	
Subdistrict IC Total	368,620	325,508	298,097	309,040	4,731,652	5,035,013	
Florida	73,735	103,642	148,368	157,585	1,177,788	1,182,855	
Georgia	100,179	74,455	12,019	10,258	1,185,844	1,231,023	
North Carolina	69,026	44,816	28,110	35,255	854,189	892,816	
South Carolina	14,322	16,209	15,530	13,579	484,503	563,590	
Virginia	93,432	66,346	27,220	28,989	832,903	895,185	
West Virginia	17,926	20,040	66,851	63,374	E196,425	269,544	
AD District II Total	, ,	1,246,799	461,014	587,612	9,659,243	10,205,834	
Illinois		104,333	44,690	42,053	936,299	1,077,513	
Indiana	,	64,889	41,333	25,739	1,121,011	1,129,693	
lowa	,	45,193	6,244	7,148	457,122	479,789	
Kansas		76,052	444.000		E364,088	372,593	
Kentucky		96,618	111,996	89,982	683,925	690,621	
Michigan		51,806	5,947	7,755	808,162	865,113	
Minnesota		91,241	3,059	3,791	502,305	546,107	
Missouri	,	28,345	182,450	341,792	814,212	933,682	
Nebraska North Dakota	,	207,061 18,756	75	36 512	316,626	360,777 142,612	
Ohio		139,142	5,878	8,650	145,436 1,400,649	1,412,948	
		,	170	515	, ,		
Oklahoma	,	196,323 1,271	170	313	562,915 140,377	566,471 141,809	
South Dakota Tennessee		95,545	57,016	57,090	776,452	821,331	
Wisconsin		30,224	2,156	2,548	629,664	664,775	
PAD District III Total	468,499	443,782	824,577	721.207	4,738,216	5,125,135	
Alabama	,	28,335	47,654	18,932	656,302	701,742	
Arkansas		41,198	2,098	3,642	532,548	560,831	
Louisiana		20,380	535,892	435,543	525,902	541,189	
Mississippi	19,909	15,276	27,934	16,664	431,389	494,855	
New Mexico		9,105	, <u> </u>	· _	341,429	393,110	
Texas	341,335	329,489	210,998	246,427	2,250,646	2,433,408	
AD District IV Total	,	302,246	251	185	1,224,729	1,303,954	
Colorado	,	67,747	_	_	_ 291,105	383,801	
Idaho	37,309	37,302	229	185	E202,725	184,607	
Montana	89,685	68,739	_	_	E178,706	171,675	
Utah	47,036	29,065	22	_	293,452	303,331	
Wyoming	121,589	99,394	_	_	258,741	260,540	
AD District V Total	•	361,407	318,736	309,307	4,039,853	4,116,863	
Alaska	,	4,504	106,832	102,755	^E 68,374	68,548	
Arizona	,	2,557	20	405 400	E557,464	602,809	
California	,	231,282	124,356	105,189	2,288,069	2,339,261	
Hawaii		-	15,038	20,368	28,487	28,956	
Nevada	- /	4,297	40.054	45.404	221,981	228,955	
Oregon		54,985	10,854	15,434	E408,624	418,953	
Washington	60,523	63,782	61,637	65,560	466,854	429,381	

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

Destination	Military		Off-Highway		All Other		Total	
	1997	1998	1997	1998	1997	1998	1997	1998
U.S. Total	337,390	277,688	2,081,728	2,179,560	-	-	52,665,438	53,063,934
PAD District I Total	57,268	39,813	598,261	624,312	_	_	19,592,916	19,392,996
Subdistrict IA Total	6,480	3,756	64,151	62,501	_	_	3,940,272	3,729,136
Connecticut	3,745	858	7,729	7,653	_	_	958,833	856,900
Maine	794	981	21,376	21,500	_	_	636,717	656,504
Massachusetts	1,719	512	23,386	19,634	_	_	1,485,929	1,395,441
New Hampshire	_	540	6,085	8,010	_	_	339,478	359,895
Rhode Island	93	730	3,352	2,896	_	_	288,593	239,348
Vermont	128	135	2,222	2,807	_	_	230,723	221,049
Subdistrict IB Total	23,567	14,407	164,791	169,485	_	_	8,171,212	7,782,975
Delaware	456	1,130	4,265	5,801	_	_	142,849	135,320
District of Columbia	134	158	607	449	_	_	73,903	72,103
Maryland	9,416	3,353	23,216	25,963	_	_	849,321	888,883
New Jersey	1,236	1,004	31,401	40,049	_	_	1,517,521	1,468,093
New York	1,637	649	47,786	47,918	_	_	3,023,396	2,728,609
Pennsylvania	10,688	8,113	57,516	49,305	_	_	2,564,222	2,489,968
Subdistrict IC Total	27,221	21,650	369,320	392,327	_	_	7,481,432	7,880,885
Florida	5,402	4,530	121,537	111,165	_	_	1,803,418	1,922,092
Georgia	2,331	1,971	79,636	70,904	_	_	1,564,457	1,623,075
North Carolina	1,476	1,713	59,077	89,787	_	_	1,415,573	1,451,147
South Carolina	2,991	3,433	42,041	46.746	_	_	692.056	799.507
Virginia	14,978	9,904	59,255	64,090	_	_	1,548,908	1,549,089
West Virginia	44	99	7,773	9,635	-	-	457,020	535,975
DAD District II Total	22,817	16,955	670,502	645,051		_	16 210 722	16 527 206
PAD District II Total		,	60,989	,	_	_	16,318,722 1.656.552	16,537,206
Illinois	1,276 384	1,430	,	72,669	_	_	, ,	1,763,105 1,597,644
IndianaIowa	2,344	331 286	38,705 55,044	43,891	_	_	1,626,470	, ,
	,	404	28,888	47,459	_	_	857,618	854,491
Kansas	1,172		,	23,836	_	_	718,280	676,590
Kentucky	1,560	1,609	35,974	41,834			1,229,849	1,198,558
Michigan	381	262	72,252	66,631	_	_	1,312,628	1,295,547
Minnesota	386	276	50,917	45,208	_	_	1,040,868	1,048,375
Missouri	1,220	740	60,428	54,600	_	_	1,255,718	1,531,401
Nebraska	634	1,117	16,912	18,495		_	741,617	791,101
North Dakota	694	588	7,659	8,218	_		352,826	341,824
Ohio	227	250	78,411	68,369	_	_	2,064,183	1,984,408
Oklahoma	936	509	40,468	35,153	_	_	917,811	930,313
South Dakota	2,467	594	8,346	7,555	_	_	268,448	249,154
Tennessee Wisconsin	1,388 7,746	1,817 6,741	69,066 46,444	65,265 45,868	_	_	1,178,622 1,097,231	1,202,708 1,071,986
PAD District III Total	116,754	111,389	330,406	394,783	_	_	7,804,062	8,022,672
Alabama	680	534	60,135	40,548	_	_	894,543	884.473
Arkansas	800	576	23.590	20,357	_	_	706,509	738,141
Louisiana	12,543	1,131	88,130	79,173	_	_	1,492,464	1,374,961
Mississippi	3,517	2,385	35,651	31,371	_	_	634.310	660,568
New Mexico	1,571	840	7,161	7,631	_	_	429.880	462,524
Texas	97,642	105,924	115,739	215,703	-	_	3,646,357	3,902,005
PAD District IV Total	3,774	3.242	178,036	162,881	_	_	2,474,472	2,352,210
Colorado	1,114	1,173	52,046	58,428	_	_	578,159	656,793
Idaho	488	111	35,912	27,268	_	_	415,908	357,353
Montana	249	238	26,478	19,686	_	_	451,125	359,002
Utah	1,885	1,686	39,235	41,535	_	_	473,079	470,782
Wyoming	37	33	24,365	15,965	_	_	556,202	508,280
PAD District V Total	136,777	106,289	304,523	352,532	_	_	6,475,266	6,758,850
Alaska	2,656	11,594	30,168	26,449	_	_	448,535	501,401
Arizona	406	517	26,307	32,666	_	_	725,394	793,045
California	18,242	23,144	136,008	136,459	_	_	3,177,571	3,314,587
Hawaii	6,987	2,200	11,649	11,459	_	_	186,047	204,297
Nevada	1,191	1,151	15,873	11,097	_	_	383,375	383,830
Oregon	491	169	29,351	39,510	_	_	647,549	667,375
			- ,					

E Estimated data.

Estimated data.

Dashes (-) = No data reported.

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

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

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

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

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

Bootle, d	Comme	ercial	Indus	strial	Oil Cor	npany	Electric Utility		
Destination	1997	1998	1997	1998	1997	1998	1997	1998	
U.S. Total	754,967	590,388	1,815,165	1,484,331	153,424	105,233	4,655,775	6,748,744	
PAD District I Total	724,631	474,619	1,398,504	1,184,856	65,532	70,478	3,897,100	5,808,888	
Subdistrict IA Total	185,191	114,533	431,434	377,887	222	193	1,432,678	1,533,474	
Connecticut	13,705	6,971	16,105	13,103	222	193	553,297	548,348	
Maine	25,044	12,261	284,837	235,973		_	105,069	156,049	
Massachusetts	95,543	61,707	73,474	77,531	_	_	744,052	765,721	
New Hampshire	20,221	12,048	35,381	31,167	_	_	30,260	63,356	
Rhode Island	25,940	16,897	12,574	12,808	_	_	50,200	00,000	
Vermont	4,738	4,649	9,063	7,305	_	_	_		
Subdistrict IB Total	,	349.468	,		64 427	70,056	898,515	1 607 021	
Delaware	520,804	,	259,917	215,510	64,427	,	69,093	1,697,931	
	8,283	5,401	33,625	26,807	18,237	15,777	09,093	95,176	
District of Columbia	1,471	183	-	07.400	-	-	-	-	
Maryland	2,127	1,830	35,152	27,139	634	573	93,615	260,624	
New Jersey	33,865	21,314	55,412	35,424	2,437	1,800	18,331	117,616	
New York	431,148	294,704	82,958	80,709	880	658	651,476	1,048,993	
Pennsylvania	43,910	26,037	52,769	45,430	42,240	51,248	66,000	175,523	
Subdistrict IC Total	18,637	10,618	707,153	591,459	882	229	1,565,906	2,577,484	
Florida	5,302	431	143,797	178,124	345	_	1,517,580	2,367,910	
Georgia	254	50	130,498	52,670	_	_	2,143	6,687	
North Carolina	7,207	4,966	236,356	200,893	_	_	_	_	
South Carolina	430	282	84,108	69,124	135	99	1,143	8,521	
Virginia	5,443	4,889	102.530	87,506	402	129	45,040	194,365	
West Virginia	_	-	9,864	3,142	-	_	_	_	
PAD District II Total	25,234	33,847	208,599	164,486	50,624	16,148	83,114	124,841	
Illinois	5,517	5,027	27,604	6,528	1,283	_	20,256	36,859	
Indiana	376	5,263	24,146	32,160	21,727	_	_	_	
lowa	_	33	3,050	3,812	· –	_	_	_	
Kansas	_	3,434	7,148	8,008	_	_	14,871	5,354	
Kentucky	_	· _	3,966	837	3,078	1,573	· _	´ -	
Michigan	2,365	72	13,360	13,668	4,306	3,727	36,565	78,287	
Minnesota	6,809	7,020	15,747	12,957	6,415	2,415	3,790	2,414	
Missouri	1,420	1,477	7,661	7,942	-	_,	7,483	1,926	
Nebraska	404	309	4,289	4,270	_	_	-,	.,020	
North Dakota	382	707	3,481	1,196	4,095	_	66	_	
Ohio	86	29	46,490	32,706	4,082	4,167	83	_	
Oklahoma	-	_	11,055	4,357	4,002	4,107	-	_	
South Dakota	358	233			_	_	_	_	
			2,353	4,157		- 61	_	_	
Tennessee Wisconsin	1,885 5,632	62 10,181	4,551 33,696	6,735 25,152	60 5,576	61 4,204		_	
PAD District III Total	_	_	156,545	107,120	5	1,491	226,311	439,878	
Alabama	_	_	25,589	26,719	_	1,431	220,011	400,010	
Arkansas	_	_	890	146	5		2,297	6,134	
Louisiana	_	_	43,233	31,932	_	_	33,564	40,964	
	_	_	1,313	6,657	_	_	188,578	381,669	
Mississippi	_	_			_	_	100,376	361,009	
New Mexico Texas	_	_	6,695 78,825	5,885 35,781	_	1,491	1,872	_ 11,111	
PAD District IV Total	550	424	3,190	4,796	9,901	4,188	_	_	
Colorado	_	130	125	4,730		-,100		_	
Idaho	35	145	54	54	_				
Montana	48	25	-	413	6,866	4,188	_	_	
Utah	461	120	2,854	4,061	3,035	4,100	_		
Wyoming	7	3	157	265	-	_	_	_	
PAD District V Total	4,552	81,497	48,328	23,073	27,362	12,927	449,250	375,137	
Alaska	,	, -	5,915		,	, - _	_		
Arizona	_	_	601	851	_	_	_	_	
California	73	2,570	3,452	1,318	891	24	_	_	
Hawaii	468	74,216	10,503	426	25,536	12,867	449,197	374,749	
	30	162	8,746	3,358	43	12,007	- 10,107	387	
Nevada			0,7 70	0,000	+3	1.7		501	
Nevada Oregon	2,063	3,116	7,083	6,050	_	_	53		

See footnotes at end of table.

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

	Vessel Bu	ınkering	Milita	ary	All Ot	her	То	tal
Destination	1997	1998	1997	1998	1997	1998	1997	1998
U.S. Total	4,789,861	4,640,153	40,311	27,779	3,886	2,930	12,213,390	13,599,558
PAD District I Total	1,337,659	1,259,498	33,118	21,544	3,726	2,856	7,460,270	8,822,740
Subdistrict IA Total	58,939	8,962	5,762	5,491	489	351	2,114,715	2,040,891
Connecticut	228	215	819	397	178	112	584,554	569,338
Maine	10	7,658	4,573	4,576	278	239	419,812	416,757
Massachusetts	58,519	774	370	518	33	_	971,990	906,250
New Hampshire	124	262	_	_	_	_	85,986	106,833
Rhode Island	58	54	_	_	_	_	38,572	29,759
Vermont	_	_	_	_	_	_	13,801	11,954
Subdistrict IB Total	786,100	805,210	13,520	8,340	_	_	2,543,282	3,146,514
Delaware	70,056	59,641	1,029	136	_	_	200,322	202,937
District of Columbia	· –	· –	· –	_	_	_	1,471	183
Maryland	25,216	44,909	5,669	4,797	_	_	162,412	339,872
New Jersey	277,638	287,280	6,670	2,752	_	_	394,353	466,185
New York	217,982	174,944	· –	330	_	_	1,384,444	1,600,338
Pennsylvania	195,208	238,436	152	326	_	_	400,280	537,000
Subdistrict IC Total	492,620	445,326	13,836	7,713	3,237	2,505	2,802,272	3,635,334
Florida	359,805	333,511	2,224	335	2,629	2,067	2,031,682	2,882,379
Georgia	47,162	39,722	11	_	_,	_,,	180,069	99,129
North Carolina	8,442	5,898	3,368	535	609	438	255,981	212,730
South Carolina	18,704	14,374	4,755	3,850	_	-	109,275	96,250
Virginia	58,508	51,821	3,479	2,993	_	_	215,402	341,705
West Virginia	-	-	-	_,,,,,	_	_	9,864	3,142
PAD District II Total	24,910	21,245	365	599	56	16	392,901	361,182
Illinois	2,013	1,216	3	386	_	_	56,676	50,017
Indiana	16,835	13,180	_	_	_	_	63,084	50,603
lowa	_	_	_	_	_	_	3,050	3,845
Kansas	_	_	_	115	_	_	22,019	16,911
Kentucky	_	_	_	_	_	_	7,045	2,411
Michigan	2,205	3,572	_	_	24	16	58,825	99,342
Minnesota	406	· –	_	_	_	_	33,168	24,807
Missouri	266	175	362	_	_	_	17,192	11,520
Nebraska	_	_	_	_	_	_	4,693	4,579
North Dakota	_	_	_	_	_	_	8,025	1,903
Ohio	2,497	2,506	_	_	_	_	53,238	39,407
Oklahoma	_	_	_	97	_	_	11,055	4,454
South Dakota	_	_	_	_	_	_	2,711	4,391
Tennessee	171	_	_	_	_	_	6,668	6,858
Wisconsin	516	596	-	-	32	-	45,453	40,133
PAD District III Total	1,830,219	2,035,792	669	1,123	42	30	2,213,792	2,585,435
Alabama	82,863	35,990	-	-	_	_	108,452	62,709
Arkansas	_	_	-	-	_	_	3,192	6,281
Louisiana	831,222	882,305	669	_	_	_	908,688	955,201
Mississippi	53,371	45,290	-	_	_	_	243,262	433,615
New Mexico	_	_	_	_	42	30	6,737	5,916
Texas	862,763	1,072,207	-	1,123	-	_	943,460	1,121,713
PAD District IV Total	_	_	_	_	59	27	13,700	9,435
Colorado	_	_	_	_	17	_	142	135
Idaho	_	_	_	_	4	2	93	201
Montana	_	_	_	_	_	_	6,913	4,626
Utah	_	_	_	_	22	22	6,373	4,203
Wyoming	_	_	-	-	15	4	179	271
PAD District V Total	1,597,073	1,323,618	6,159	4,513	3	_	2,132,728	1,820,765
Alaska	92	310	-	_	_	_	6,007	310
Arizona	_	_	_	_	_	_	601	851
California	904,248	743,245	3,383	1,372	_	_	912,047	748,529
Hawaii	18,690	15,958	2,190	739	_	_	506,585	478,955
Nevada	_	_	_	_	_	_	8,818	3,925
Oregon	138,027	159,446	_	_	_	_	147,226	168,613
Washington				2,401	3		551,444	419,582

Dashes (-) = No data reported.

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

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

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

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

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

5	Reside	ntial	Comme	ercial	Indust	rial
Destination	1997	1998	1997	1998	1997	1998
U.S. Total	688,025	802,348	182,559	230,743	110,738	123,246
PAD District I Total	555,496	659,105	146,401	189,089	66,284	75,519
Subdistrict IA Total	100,429	133,998	18,515	27,038	5,190	11,808
Connecticut	6,020	5,304	4,357	7,381	1,608	2,180
Maine	55,003	78,969	6,581	10,150	1,388	2,107
Massachusetts	7,965	8,257	1,953	2,957	710	884
New Hampshire	19,986	26,041	2,437	2,397	762	462
Rhode Island	1,441	1,731	2,322	2,826	132	512
Vermont	10.015	13,696	865	1,327	591	5,663
Subdistrict IB Total	222,668	250,726	97.417	124,659	48,276	48,778
Delaware	5,087	6,884	656	512	246	41
District of Columbia	247	232	8,495	12,306	18	
Maryland	25,085	30,226	9,531	13,165	1,121	4,211
New Jersey	12,283	12,939	31,496	45,545	27,498	18,627
New York	73,256	78,389	33,660	41,222	14,508	20,289
Pennsylvania	106,710	122,056	13,578	11,908	4,884	5,609
Subdistrict IC Total	232,399	274,381	30,469	37,392	12,818	14,932
Florida	8,485	7,031	2,257	2,737	2,085	3,304
Georgia	5,685	7,199	1,169	1,147	762	1,240
North Carolina	109.345	125,513	8,611	10,943	4,154	4,209
	25,640	28,548	677	1,984	2,629	4,202
South Carolina	66,479	86,216	15,615	18,190	802	4,202 821
Virginia	,		,			
West Virginia	16,765	19,874	2,140	2,390	2,386	1,156
AD District II Total	108,138	115,109	29,328	30,393	19,238	20,747
Illinois	4,576	5,053	4,531	1,636	3,831	5,649
Indiana	12,707	12,605	3,639	2,162	1,257	2,024
lowa	1,185	1,063	343	133	208	307
Kansas	486	748	1,169	358	175	232
Kentucky	20,393	25,670	4,751	5,480	3,973	1,964
Michigan	10,683	11,437	2,331	2,754	1,014	1,713
Minnesota	2,168	3,054	1,072	1,308	64	65
Missouri	1,879	2,075	862	765	341	164
Nebraska	294	402	109	120	20	31
North Dakota	224	254	22	43	6	3
Ohio	32,503	32,527	5,318	9,159	6,351	5,862
Oklahoma	585	527	684	878	298	183
South Dakota	245	213	24	19	10	9
Tennessee	18,357	17,828	4,159	5,160	1,317	2,176
Wisconsin	1,852	1,654	314	419	373	364
PAD District III Total	10,068	7,748	2,949	3,984	16,264	18,873
Alabama	2,407	1,692	2,949 374	3, 904 878	2,474	1,595
Arkansas	789	627	220	286	166	113
			110	227	902	
Louisiana Mississippi	3,865 901	2,886 1,017	533	276	1,209	1,072 2,093
New Mexico	224	242	120	119		
Texas	1,881	1,284	1,593	2,198	202 11.311	308 13,693
	,	,	,	,	,-	,
PAD District IV Total	1,310	1,933	462	801	1,249	606
Colorado	799	1,015	205	366	66	68
Idaho	158	580	44	139	169	135
Montana	73	107	10	4	3	5
Utah	217	163	149	225	96	135
Wyoming	63	68	54	67	915	262
PAD District V Total	13,013	18,453	3,419	6,477	7,703	7,502
Alaska	6	35	14	14	-	2
Arizona	96	112	160	60	77	167
California	5,657	9,959	1,737	2,663	7,261	6,637
Hawaii	1	_	7	5	13	6
Nevada	229	406	32	88	60	22
Oregon	1,438	2,768	927	2,628	74	543
Washington	5,587	5,173	542	1,020	218	126

See footnotes at end of table.

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

B. W. W. W.	Farr	n	All Ot	her	Total		
Destination	1997	1998	1997	1998	1997	1998	
U.S. Total	21,556	26,823	7,054	13,420	1,009,932	1,196,580	
PAD District I Total	7,880	9,557	2,563	7,916	778,624	941.185	
Subdistrict IA Total	908	1,224	243	424	125,286	174,493	
Connecticut	16	24	243	18	12,000	14,906	
	228	377	36	74	,	,	
Maine					63,237	91,678	
Massachusetts	139	49	24	24	10,791	12,171	
New Hampshire	239	205	88	165	23,513	29,269	
Rhode Island	_ _	. 	2	36	3,897	5,106	
Vermont	285	569	93	107	11,848	21,362	
Subdistrict IB Total	1,430	1,481	1,434	2,580	371,224	428,225	
Delaware	22	27	_	2	6,012	7,466	
District of Columbia	_	_	_	_	8,761	12,538	
Maryland	574	500	23	39	36,335	48,141	
New Jersey	17	16	141	127	71,435	77,254	
New York	267	277	381	887	122,072	141,064	
Pennsylvania	549	662	889	1,526	126,610	141,762	
Subdistrict IC Total	5,541	6,851	886	4,912	282,114	338,467	
Florida	,	144		,			
_ 1 11	89		20	3,418	12,936	16,634	
Georgia	17	640	226	52	7,859	10,279	
North Carolina	2,081	1,651	464	246	124,655	142,561	
South Carolina	188	364	34	53	29,168	35,152	
Virginia	2,938	3,069	97	1,057	85,930	109,353	
West Virginia	229	983	46	86	21,566	24,489	
PAD District II Total	11,647	14,671	3,462	2,292	171,813	183,213	
Illinois	,	•	3,402 654	124		,	
	1,805	2,187			15,397	14,649	
Indiana	1,337	1,204	353	180	19,294	18,176	
lowa	901	1,063	23	50	2,660	2,615	
Kansas	512	595	94	160	2,436	2,092	
Kentucky	1,550	2,504	199	144	30,865	35,762	
Michigan	515	281	329	86	14,873	16,272	
Minnesota	940	942	46	94	4,289	5,464	
Missouri	114	389	50	89	3,245	3,481	
Nebraska	464	369	94	45	981	967	
North Dakota	19	16	13	18	284	335	
Ohio	2,666	4,166	1,218	1.008	48,057	52,722	
Oklahoma	265	259	67	74	1,899	1,922	
	81	42	8			283	
South Dakota				-	368		
Tennessee	309	427	228	153	24,369	25,744	
Wisconsin	169	226	87	66	2,794	2,730	
PAD District III Total	620	689	606	2,338	30,506	33,633	
Alabama	12	10	62	55	5,329	4,230	
Arkansas	147	49	104	561	1,425	1,636	
Louisiana	12	45	235	1,244	5,123	5,474	
Mississippi	62	33	11	66	2,717	3,485	
• •	51	48	7	17	604	733	
New Mexico Texas	336	505	187	394	15,308	18,074	
10,40	000	303	107	004	10,000	10,014	
PAD District IV Total	541	190	68	293	3,630	3,822	
Colorado	125	122	32	280	1,227	1,850	
Idaho	381	39	_	_	752	893	
Montana	2	2	_	_	89	118	
Utah	28	11	16	5	506	539	
Wyoming	5	16	20	8	1,057	423	
PAD District V Total	869	1,716	354	580	25,358	34,727	
Alaska	-	-	1	1	22	51	
Arizona	12	19	2	95	346	452	
California	224	428	150	241	15,030	19,927	
Hawaii	_	-	-		21	11	
Nevada	10	29	_	1	330	546	
Oregon	53	124	117	97	2,610	6,158	
Washington	569	1,116	83	146	6,999	7,581	
vvasiiiiuluii	209	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.3				

Dashes (-) = No data reported.

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

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

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

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

Postbootion .		Karosana		
Destination	No. 1	No. 2	Total	Kerosene
J.S. Total	124,828	5,508,581	5,633,409	802,348
PAD District I Total	11,847	4,771,162	4,783,009	659,105
Subdistrict IA Total	4,393	1,929,113	1,933,506	133,998
Connecticut	220	473,049	473,269	5,304
Maine	2,709	320,484	323,193	78,969
Massachusetts	574	726,011	726.585	8,257
New Hampshire	889	183,931	184,820	26,041
Rhode Island	1	139,717	139,718	1,731
Vermont	'	85,921	85,921	13,696
	_ E 101			,
Subdistrict IB Total	5,121	2,449,051	2,454,172	250,726
Delaware	318	34,111	34,429	6,884
District of Columbia		10,065	10,065	232
Maryland	755	183,848	184,603	30,226
New Jersey	726	389,852	390,578	12,939
New York	1	1,139,875	1,139,876	78,389
Pennsylvania	3,322	691,301	694,623	122,056
Subdistrict IC Total	2,333	392,999	395,332	274,381
Florida	46	4,614	4,660	7,031
Georgia	51	3,950	4,001	7,199
North Carolina	98	127,982	128,080	125,513
South Carolina	432	19,909	20,341	28,548
	997	213,846	214,843	86,216
Virginia West Virginia	709	22,698	23,407	19,874
· ·			,	
PAD District II Total	67,203	553,283	620,486	115,109
Illinois	2,677	14,590	17,267	5,053
Indiana	6,832	36,750	43,582	12,605
lowa	4,288	18,447	22,735	1,063
Kansas	233	239	472	748
Kentucky	706	23,470	24,176	25,670
Michigan	8,212	101,456	109,668	11,437
Minnesota	18,557	86,502	105,059	3,054
Missouri	2.047	10,103	12,150	2,075
Nebraska	1,390	1,281	2,671	402
North Dakota	4,345	17,631	21,976	254
Ohio	2,474	117,095	119,569	32,527
Oklahoma	11	40	51	527
	4,039	11,763	15,802	213
South Dakota	,	•		
Tennessee	1,331 10,061	8,185	9,516	17,828 1,654
Wisconsin	10,001	105,730	115,791	1,034
AD District III Total	32	278	310	7,748
Alabama	29	143	172	1,692
Arkansas	_	15	15	627
Louisiana	_	29	29	2,886
Mississippi	2	28	30	1,017
New Mexico	1	56	57	242
Texas	_	8	8	1,284
AD District IV Total	13,072	29,551	42,623	1,933
Colorado	319	29,331 570	42,023 889	1,015
Idaho	3,616	14,207	17,823	580
Montana	8,431	10,912	19,343	107
Utah	507	2,849	3,356	163
Wyoming	198	1,014	1,212	68
AD District V Total	32,675	154,306	186,981	18,453
Alaska	25,404	39,300	64,704	35
Arizona	17	156	173	112
California	370	6,164	6,534	9,959
Hawaii	-	13	13	
Nevada	336	10,214	10,550	406
Oregon	3,163	33,836	36,999	2,768

Dashes (-) = No data reported.

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

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

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

Table 20. Adjusted Sales for Commercial Use: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 1998 (Thousand Gallons)

			Di	stillate Fuel C	Dil .	,			
Destination			No. 2 D	istillate				Residual	Kerosene
	No. 1 Distillate	No. 2 Fuel Oil	Low Sulfur Diesel	High Sulfur Diesel	No. 2 Total	No. 4 Fuel	Total Distillate	Fuel Oil	
U.S. Total	77,915	1,308,529	972,200	484,637	2,765,366	201,214	3,044,495	590,388	230,743
PAD District I Total	4,485	1,140,090	407,330	214,496	1,761,917	200,965	1,967,367	474,619	189,089
Subdistrict IA Total	371	411,392	90,023	25,990	527,405	53,176	580,952	114,533	27,038
Connecticut	2	81,607	17,706	7,994	107,307	5,255	112,564	6,971	7,381
Maine	262	88,605	24,129	2,883	115,618	1,729	117,608	12,261	10,150
Massachusetts New Hampshire	400	158,812	24,876	9,200	192,888	38,372	231,260	61,707	2,957
Rhode Island	102 3	37,464 16,568	10,473 5,808	530 2,332	48,467 24,708	4,281 1,816	52,849 26,526	12,048 16,897	2,397 2,826
Vermont	2	28,336	7,030	3,052	38,418	1,724	40,144	4,649	1,327
Subdistrict IB Total	2,298	598,694	153,290	73,977	825,961	144,669	972,927	349,468	124,659
Delaware	2,230	6,564	3,246	948	10,758	1,634	12,392	5,401	512
District of Columbia	_	11,060	461	905	12,426	1,192	13,618	183	12,306
Maryland	947	43,694	38,696	24,766	107,156	1,238	109,341	1,830	13,165
New Jersey	41	84,826	23,777	8,065	116,668	14,290	130,999	21,314	45,545
New York	1,104	333,265	45,117	9,905	388,287	120,459	509,850	294,704	41,222
Pennsylvania	205	119,285	41,994	29,387	190,666	5,856	196,727	26,037	11,908
Subdistrict IC Total	1,817	130,005	164,017	114,529	408,551	3,121	413,488	10,618	37,392
Florida	_	9,767	32,353	17,373	59,494	101	59,595	431	2,737
Georgia	156	5,430	15,079	9,968	30,477	_	30,633	50	1,147
North Carolina	1,260	42,609	33,587	30,914	107,109	2,215	110,584	4,966	10,943
South Carolina	152	6,989	43,475	13,654	64,118	13	64,282	282	1,984
Virginia	83	62,214	32,907	36,611	131,732	729	132,544	4,889	18,190
West Virginia	166	2,997	6,615	6,008	15,620	63	15,849	-	2,390
PAD District II Total	40,302	131,291	250,882	137,842	520,014	201	560,518	33,847	30,393
Illinois	10,131	18,020	33,354	15,452	66,826	1	76,959	5,027	1,636
Indiana	2,510	17,045	16,699	22,540	56,284	_	58,794	5,263	2,162
lowa	1,321	5,631	11,072	1,112	17,815	_	19,137	33	133
Kansas	2,073	1,083	13,859	1,213	16,155		18,227	3,434	358
Kentucky	389	6,513	22,487	14,263	43,263	106	43,758		5,480
Michigan	4,067	14,949	31,227	11,998	58,174	_	62,241	72	2,754
Minnesota	3,232	16,491	11,598	3,507	31,596	-	34,828	7,020	1,308
Missouri	1,994	2,169	17,229	26,508	45,906	46	47,946	1,477	765
Nebraska	3,134	1,452	3,340	1,237	6,029	-	9,162	309	120
North Dakota	950 3,978	4,387 12,704	4,979 13,426	806 16,349	10,173 42,478	_	11,122 46,456	707 29	43 9,159
Ohio Oklahoma	757	3,382	19,040	2,406	24,828	_	25,585	29	878
South Dakota	1,223	4,677	2,761	1,141	8,579	_	9,802	233	19
Tennessee	249	2,111	23,745	13,082	38,937	48	39,234	62	5,160
Wisconsin	4,294	20,678	26,067	6,228	52,973	-	57,267	10,181	419
PAD District III Total	3,110	4,779	86,688	43,877	135,344	_	138,454	_	3,984
Alabama	716	2,246	9,328	4,054	15,628	_	16,344	_	878
Arkansas	56	44	6,415	3,806	10,266	_	10,322	_	286
Louisiana	108	127	2,566	5,922	8,615	_	8,723	_	227
Mississippi	28	1,240	5,573	3,695	10,508	_	10,536	_	276
New Mexico	168	81	2,681	1,055	3,817	_	3,984	_	119
Texas	2,035	1,040	60,126	25,344	86,511	-	88,545	-	2,198
PAD District IV Total	8,668	10,173	67,539	12,454	90,167	_	98,835	424	801
Colorado	3,364	2,837	33,817	1,499	38,153	_	41,516	130	366
Idaho	1,229	1,894	12,909	3,688	18,492	-	19,720	145	139
Montana	1,041	1,725	2,558	130	4,413	-	5,454	25	4
Utah	1,624	1,685	15,084	6,684	23,453	_	25,077	120	225
Wyoming	1,411	2,032	3,170	454	5,656	_	7,067	3	67
PAD District V Total	21,350	22,196	159,760	75,968	257,924	48	279,321	81,497	6,477
Alaska	16,127	11,053	350	13,799	25,202	8	41,337	_	14
Arizona	243	43	20,760	22,328	43,131	38	43,413	0.570	60
California	549	3,052	88,501 5,063	10,751	102,303	_	102,852	2,570	2,663
Hawaii Nevada	1 477	70	5,963	2,115	8,148	_	8,149	74,216	5
Oregon	477 840	2,446 1,777	6,886 20,312	2,133 15,557	11,464 37,646	1	11,942 38,487	162 3,116	88 2,628
							,		
Washington	3,113	3,755	16,988	9,286	30,029	_	33,142	1,432	1,020

Dashes (-) = No data reported.

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

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

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

Table 21. Adjusted Sales for Industrial Use: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 1998

			Di	stillate Fuel C)il				
Destination	No.4		No. 2 D	istillate		No. 4	Total	Residual	Kerosene
	No. 1 Distillate	No. 2 Fuel Oil	Low Sulfur Diesel	High Sulfur Diesel	No. 2 Total	No. 4 Fuel	Total Distillate	Fuel Oil	
U.S. Total	137,154	522,856	570,126	978,661	2,071,643	49,450	2,258,248	1,484,331	123,246
PAD District I Total	20,856	281,572	105,436	309,894	696,902	40,509	758,267	1,184,856	75,519
Subdistrict IA Total	161	65,297	7,359	7,655	80,310	15,809	96,280	377,887	11,808
Connecticut		12,253	717	106	13,076	9,328	22,405	13,103	2,180
Maine	161	28,452	1,791	946	31,189	365	31,715	235,973	2,107
Massachusetts	_	11,937	2,205	3,349	17,491	3,210	20,701	77,531	884
New Hampshire	_	2,521	1,641	1,803	5,965	857	6,822	31,167	462
Rhode Island Vermont	_	5,667 4,466	560 445	614 837	6,841 5,748	861 1,188	7,701 6,936	12,808 7,305	512 5,663
Subdistrict IB Total	15,088	117,911	32,412	69,162	219,486	16,947	251,521	215,510	48,778
Delaware	13,000	1,270	2,436	832	4,538	85	4,628	26,807	40,770
District of Columbia	_	242	2,430	5	248	44	292	20,007	-
Maryland	14,862	35,174	6,421	9,898	51,493	875	67,230	27,139	4,211
New Jersey	29	27,963	804	5,821	34,588	5,956	40,574	35,424	18,627
New York	73	24,502	6,418	4,720	35,639	6,076	41,789	80,709	20,289
Pennsylvania	119	28,760	16,333	47,887	92.979	3,910	97,008	45.430	5,609
Subdistrict IC Total	5,607	98,363	65,665	233,077	397,106	7,753	410,465	591,459	14,932
Florida	125	9,701	22,012	17,313	49,026	4,222	53,374	178,124	3,304
Georgia	1,050	9,448	10,031	24,445	43,924	257	45,231	52,670	1,240
North Carolina	1,635	34,032	14,194	29,587	77,814	2,627	82,075	200,893	4,209
South Carolina	432	9,378	3,433	9,906	22,717	146	23,294	69,124	4,202
Virginia	420	23,173	11,047	53,545	87,765	501	88,685	87,506	821
West Virginia	1,945	12,631	4,948	98,281	115,861	-	117,805	3,142	1,156
PAD District II Total	73,434	215,994	133,783	346,943	696,720	4,844	774,998	164,486	20,747
Illinois	5,240	16,498	16,252	77,872	110,622	12	115,874	6,528	5,649
Indiana	1,858	59,885	18,735	23,071	101,690	145	103,693	32,160	2,024
lowa	14,058	3,186	11,250	2,801	17,237	92	31,388	3,812	307
Kansas	1,697	2,971	4,393	4,208	11,572	1,685	14,954	8,008	232
Kentucky	4,394	14,016	6,385	128,527	148,928	706	154,029	837	1,964
Michigan	5,733	13,384	11,469	20,459	45,313	207	51,046	13,668	1,713
Minnesota	4,512 5,942	14,247 18,598	10,960 11,117	21,204 6,578	46,412 36,293	297 386	51,221 42,621	12,957 7,942	65 164
Missouri	14,727	1,701	,	2,510	5,603	338	20,668	4,270	31
Nebraska North Dakota	2,680	2,825	1,392 1,431	1,065	5,321	330	8,002	1,196	31
Ohio	677	37,902	9,790	20,236	67,928	260	68,865	32,706	5,862
Oklahoma	205	487	1,780	6,361	8,627	200	8,832	4,357	183
South Dakota	418	1,387	1,170	- 0,001	2,557	61	3,036	4,157	9
Tennessee	2,205	6,141	13,563	17,737	37,440	725	40,371	6,735	2,176
Wisconsin	9,084	22,767	14,099	14,311	51,177	136	60,397	25,152	364
PAD District III Total	8,488	7,946	64,185	120,809	192,940	2,332	203,760	107,120	18,873
Alabama	298	4,528	11,984	30,324	46,836	16	47,150	26,719	1,595
Arkansas	18	102	1,418	8,494	10,014	825	10,856	146	113
Louisiana	2	190	2,038	5,898	8,126	356	8,484	31,932	1,072
Mississippi	1,265	2,504	3,087	6,475	12,066	1,008	14,339	6,657	2,093
New Mexico	2,654	607	16,665	4,751	22,023	_	24,677	5,885	308
Texas	4,251	16	28,993	64,867	93,875	127	98,253	35,781	13,693
PAD District IV Total	14,847	10,187	139,813	25,212	175,212	91	190,151	4,796	606
Colorado	1,696	1,007	17,849	2,943	21,799	_	23,495	4	68
Idaho	4,960	254	10,583	12,698	23,535	-	28,496	54	135
Montana	1,809	561	13,116	946	14,623	_	16,432	413	5
Utah Wyoming	1,452 4,930	1,884 6,481	24,198 74,067	7,533 1,092	33,615 81,640	91	35,067 86,661	4,061 265	135 262
PAD District V Total	19,530	7,157	126,908	175,804	309,869	1,674	331,073	23,073	7,502
Alaska	14,572	3,645		10,844	14,489	-,	29,061		2
Arizona	2,596		24,862	56,844	81,706	_	84,303	851	167
California	96	957	41,579	15,783	58,319	1,674	60,089	1,318	6,637
Hawaii	_	67	520	1,167	1,754		1,754	426	6
Nevada	1,311	362	41,382	65,823	107,568	_	108,879	3,358	22
Oregon	813	1,131	11,976	19,033	32,140	-	32,953	6,050	543
Washington	141	995	6,590	6,309	13,894	_	14,034	11,070	126

Dashes (-) = No data reported.

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

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

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

Table 22. Adjusted Sales for Farm Use: Distillate Fuel Oil and Kerosene; Sales for Electric Utility and Oil Company Uses: Distillate Fuel Oil and Residual Fuel Oil, 1998 (Thousand Gallons)

		Fa	rm		Elec	tric	Oil Comp	oany Use
Destination	Diesel	Other Distillate	Total Distillate	Kerosene	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil
U.S. Total	2,965,006	68,399	3,033,405	26,823	962,921	6,748,744	565,174	105,233
PAD District I Total	356,222	29,619	385,841	9,557	442,618	5,808,888	7,065	70,478
Subdistrict IA Total	13,289	5,181	18,470	1,224	15,471	1,533,474	98	193
Connecticut	2,640	664	3,304	24	5,097	548,348	14	193
Maine	2,613	2,040	4,653	377	1,526	156,049	_	_
Massachusetts	1,918	921	2,839	49	5,026	765,721	78	_
New Hampshire	761	408	1,169	205	1,921	63,356	-	_
Rhode Island	30	25	55	203	1,404	05,550	_	
Vermont	5,327	1,123	6,450	569	498	_	7	_
Subdistrict IB Total	,	,	,			4 607 024		70.056
	86,361	14,042	100,403	1,481	120,020	1,697,931	3,000	70,056
Delaware	6,966	26	6,993	27	3,462	95,176	1,023	15,777
District of Columbia	-	-	_	_	21,553	-	_	_
Maryland	21,889	1,393	23,283	500	23,686	260,624	31	573
New Jersey	3,761	1,008	4,769	16	8,741	117,616	289	1,800
New York	31,833	6,773	38,605	277	3,789	1,048,993	748	658
Pennsylvania	21,912	4,842	26,753	662	58,789	175,523	910	51,248
Subdistrict IC Total	256,572	10,397	266,969	6,851	307,126	2,577,484	3,967	229
Florida	70,978	179	71,157	144	173,222	2,367,910	306	_
Georgia	107,063	974	108,037	640	46,246	6,687	315	_
North Carolina	31,805	2,541	34,346	1,651	31,541	-,	132	_
South Carolina	12,833	3,976	16,809	364	31,220	8,521	4	99
Virginia	31,699	2,181	33,880	3,069	11,657	194,365	2,967	129
West Virginia	2,194	545	2,739	983	13,240	194,303	2,907	129
PAD District II Total	1,548,065	34,662	1,582,727	14,671	252,760	124,841	43,466	16,148
Illinois	201,336	3,477	204,813	2,187	49,421	36,859	774	_
Indiana	91,427	1,854	93,281	1,204	31,547	, <u> </u>	2,203	_
lowa	189,522	3,283	192,804	1,063	8,552	_	, -	_
Kansas	158,420	181	158,601	595	8,386	5,354	3,064	_
Kentucky	42,593	508	43,102	2,504	8,374	-	4,458	1,573
Michigan	46,748	3,808	50,556	281	28,313	78,287	2,158	3,727
Minnesota	156,985	6,628	163,613	942	6,763	2,414	267	2,415
Missouri	58,832	269	59,101	389	10,318	1,926	105	2,413
		2,706		369		1,920	37	_
Nebraska	165,790	,	168,496		2,580	_		
North Dakota	84,835	581	85,416	16	40,327	_	4,295	-
Ohio	79,159	4,053	83,212	4,166	35,456	_	1,491	4,167
Oklahoma	69,326	.	69,326	259	3,258	_	24,289	_
South Dakota	67,406	1,052	68,458	42	825	_	. 	
Tennessee	58,446	_	58,446	427	13,767	_	326	61
Wisconsin	77,240	6,262	83,502	226	4,873	-	-	4,204
PAD District III Total	436,679	935	437,615	689	53,256	439,878	392,981	1,491
Alabama	19,460	_	19,460	10	11,014	-	243	_
Arkansas	77,361	242	77,603	49	11,575	6,134	1,168	_
Louisiana	35,070	. 	35,070	45	14,590	40,964	230,650	_
Mississippi	68,981	693	69,675	33	4,070	381,669	1,368	_
New Mexico	10,214	_	10,215	48	786	_	12,120	_
Texas	225,592	-	225,592	505	11,222	11,111	147,434	1,491
PAD District IV Total	208,329	1,208	209,537	190	8,241	_	30,315	4,188
Colorado	73,862	429	74,291	122	550	_	4,903	_
Idaho	41,678	133	41,812	39	29	_	_	_
Montana	55,086	605	55,691	2	_	_	1,745	4,188
Utah	22,599	11	22,610	11	3,528	_	5,528	_
Wyoming	15,104	30	15,134	16	4,134	-	18,140	-
PAD District V Total	415,711 1	1,974 1	417,685	1,716	206,046 68,820	375,137	91,346 83,626	12,927
	•	•	_	10		_		_
Arizona	22,870	192	23,062	19	3,461	_	85 5 224	-
California	295,431	_	295,431	428	9,012		5,334	24
Hawaii	8,277	_	8,277	_	121,998	374,749	1,123	12,867
Nevada	4,903		4,903	29	1,787	387	269	17
Oregon	27,740	1,484	29,224	124	449	_	213	_
Washington	56,489	297	56,786	1,116	519	_	697	20

Dashes (-) = No data reported.

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

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

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

Table 23. Adjusted Sales for Transportation Use: Distillate Fuel Oil and Residual Fuel Oil, 1998 (Thousand Gallons)

.	Railroad Use	Vessel Bu	unkering	On-Highway Diesel	Total Transp	ortation Use
Destination	Distillate Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil
U.S. Total	2,833,276	2,125,568	4,640,153	30,150,191	35,109,034	4,640,153
PAD District I Total	479,042	507,256	1,259,498	9,398,405	10,384,703	1,259,498
Subdistrict IA Total	28,566	46,648	8,962	942,889	1,018,103	8,962
Connecticut	6,887	2,774	215	222,076	231,737	215
Maine	7,830	12,243	7,658	135,254	155,327	7,658
Massachusetts	12,476	19,280	774	357,050	388,806	774
New Hampshire	17	522	262	103,225	103,764	262
Rhode Island	263	11,343	54	48,713	60,319	54
Vermont	1,092	487		76,571	78,150	
Subdistrict IB Total	124,968	151,568	805,210	3,420,503	3,697,039	805,210
Delaware	433	2,576	59,641	62,453	65,462	59,641
District of Columbia	4,552	3	44.000	21,412	25,967	44.000
Maryland	5,870	20,143	44,909	425,381	451,394	44,909
New Jersey	43,126	90,255	287,280	717,711	851,092	287,280
New YorkPennsylvania	23,450 47,538	4,774 33,817	174,944 238,436	917,161 1,276,385	945,385 1,357,740	174,944 238,436
Subdistrict IC Total	325,508	309,040	445,326	5,035,013	5.669.561	445,326
Florida	103.642	157,585	333,511	1,182,855	1,444,082	333,511
Georgia	74,455	10,258	39,722	1,231,023	1,315,736	39.722
North Carolina	44,816	35,255	5,898	892.816	972,887	5,898
South Carolina	16,209	13,579	14,374	563,590	593,378	14,374
Virginia	66.346	28,989	51,821	895,185	990,520	51,821
West Virginia	20,040	63,374	-	269,544	352,959	
9	,	,		,	•	
PAD District II Total	1,246,799	587,612	21,245	10,205,834	12,040,245	21,245
Illinois	104,333	42,053	1,216	1,077,513	1,223,899	1,216
Indiana	64,889	25,739	13,180	1,129,693	1,220,321	13,180
lowa	45,193	7,148	_	479,789	532,130	-
Kansas	76,052	_	_	372,593	448,645	-
Kentucky	96,618	89,982	-	690,621	877,221	_
Michigan	51,806	7,755	3,572	865,113	924,674	3,572
Minnesota	91,241	3,791	=	546,107	641,139	
Missouri	28,345	341,792	175	933,682	1,303,819	175
Nebraska	207,061	36	_	360,777	567,874	_
North Dakota	18,756	512	-	142,612	161,880	
Ohio	139,142	8,650	2,506	1,412,948	1,560,740	2,506
Oklahoma	196,323	515	_	566,471	763,309	_
South Dakota	1,271	- F7 000	_	141,809	143,080	_
Tennessee Wisconsin	95,545 30.224	57,090 2,548	596	821,331 664,775	973,966 697,547	596
WISCOTISTT	30,224	2,340	390	004,773	097,347	590
PAD District III Total	443,782	721,207	2,035,792	5,125,135	6,290,124	2,035,792
Alabama	28,335	18,932	35,990	701,742	749,009	35,990
Arkansas	41,198	3,642	_	560.831	605,670	_
Louisiana	20,380	435,543	882,305	541,189	997,112	882,305
Mississippi	15,276	16,664	45,290	494,855	526,795	45,290
New Mexico	9,105	, –	, –	393,110	402,215	· –
Texas	329,489	246,427	1,072,207	2,433,408	3,009,324	1,072,207
PAD District IV Total	302,246	185	_	1,303,954	1,606,385	-
Colorado	67,747	-	_	383,801	451,548	_
Idaho	37,302	185	_	184,607	222,094	_
Montana	68,739	_		171,675	240,414	_
Utah Wyoming	29,065 99,394			303,331 260,540	332,396 359,934	_
, ,	,	200 207	4 200 040			4 000 040
PAD District V Total	361,407	309,307	1,323,618	4,116,863	4,787,577	1,323,618
Alaska	4,504	102,755	310	68,548	175,807	310
Arizona	2,557	105 100	742.045	602,809	605,366	742.045
California	231,282	105,189	743,245	2,339,261	2,675,732	743,245
Hawaii	4.007	20,368	15,958	28,956 228,955	49,324 233,252	15,958
Novada						
Nevada Oregon	4,297 54,985	15,434	159,446	418,953	489,371	159,446

Dashes (-) = No data reported.

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

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

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

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

Table 24. Adjusted Sales for Military, Off-Highway, and All Other Uses: Distillate Fuel Oil, Residual Fuel Oil, and Kerosene, 1998

	Military					f-Highway Ilate Fuel O	il		All Other	
Destination	Diesel	Other Distillate	Total Distillate	Residual Fuel Oil	Construction	Other	Total	Distillate Fuel Oil	Residual Fuel Oil	Kerosene
U.S. Total	252,622	25,066	277,688	27,779	1,749,317	430,243	2,179,560	-	2,930	13,420
PAD District I Total	25,833	13,980	39,813	21,544	499,954	124,358	624,312	-	2,856	7,916
Subdistrict IA Total	2,240	1,516	3,756	5,491	46,168	16,333	62,501	-	351	424
Connecticut	97	761	858	397	6,935	718	7,653	_	112	18
Maine Massachusetts	294 464	687 48	981 512	4,576	10,818	10,683	21,500	_	239	74 24
New Hampshire	540	40	540	518	18,386 5,161	1,248 2,849	19,634 8,010	_	_	165
Rhode Island	719	11	730	_	2,631	265	2,896	_	_	36
Vermont	126	9	135	_	2,237	570	2,807	_	_	107
Subdistrict IB Total	4,796	9,611	14,407	8,340	159,485	9,999	169,485	_	_	2,580
Delaware	653	477	1,130	136	5,677	124	5,801	_	_	2
District of Columbia	88	71	158	_	449	_	449	_	_	_
Maryland	1,515	1,838	3,353	4,797	24,515	1,448	25,963	_	_	39
New Jersey	987	17	1,004	2,752	36,846	3,203	40,049	_	_	127
New York Pennsylvania	290 1,264	359 6,849	649 8,113	330 326	46,166 45,833	1,752 3,472	47,918 49,305	_	_	887 1,526
Subdistrict IC Total	18,797	2,853	21,650	7,713	294,301	98,026	392,327	_	2,505	4,912
Florida	4,530	2,033	4,530	335	99,275	11,890	111,165	_	2,067	3,418
Georgia	1,971	_	1,971	-	40.094	30,810	70,904	_	_,00.	52
North Carolina	1,713	_	1,713	535	80,126	9,662	89,787	_	438	246
South Carolina	2,536	897	3,433	3,850	24,198	22,548	46,746	_	_	53
Virginia	7,948	1,956	9,904	2,993	45,064	19,026	64,090	_	-	1,057
West Virginia	99	-	99	-	5,545	4,091	9,635	_	-	86
PAD District II Total	15,024	1,931	16,955	599	542,714	102,337	645,051	_	16	2,292
Illinois	1,407	24	1,430	386	70,368	2,301	72,669	_	_	124
Indiana	91	240	331	_	28,751	15,141	43,891	-	_	180
lowa	286	_	286		39,917	7,542	47,459	_	-	50
Kansas	404	445	404	115	21,749	2,087	23,836	_	-	160
Kentucky	1,193 262	415	1,609 262	_	35,484 49,449	6,349 17,181	41,834 66,631	_	- 16	144 86
Michigan Minnesota	276	_	276	_	36,256	8,952	45,208	_	-	94
Missouri	740	_	740	_	45,478	9,122	54,600	_	_	89
Nebraska	1,117	_	1,117	_	16,279	2,215	18,495	_	_	45
North Dakota	500	88	588	_	7,271	947	8,218	_	_	18
Ohio	250	_	250	-	62,091	6,278	68,369	_	_	1,008
Oklahoma	509	-	509	97	32,075	3,078	35,153	-	_	74
South Dakota	310	284	594	_	6,378	1,178	7,555	-	_	
Tennessee	1,643	174	1,817	_	54,120	11,144	65,265	_	_	153
Wisconsin	6,035	706	6,741	_	37,048	8,821	45,868	_	_	66
PAD District III Total	111,180	209	111,389	1,123	324,602	70,182	394,783	_	30	2,338
Alabama	534	-	534	-	17,404	23,144	40,548	-	-	55
Arkansas	366	209	576	-	13,190	7,167	20,357	_	-	561
Louisiana Mississippi	1,131 2,385	_	1,131 2,385	_	74,113 17,262	5,060 14,110	79,173 31,371	_	_	1,244 66
New Mexico	840	_	840	_	6,516	1,115	7,631	_	30	17
Texas	105,924	-	105,924	1,123	196,118	19,585	215,703	-	-	394
PAD District IV Total	2,283	959	3,242	_	132,930	29,951	162,881	_	27	293
Colorado	1,173	-	1,173	-	54,700	3,727	58,428	-	-	280
Idaho	111	_	111	-	14,954	12,314	27,268	_	2	_
Montana	238	-	238	_	12,246	7,440	19,686	_	_	_
Utah Wyoming	727 33	959 -	1,686 33	_	38,867 12,163	2,668 3,802	41,535 15,965	_	22 4	5 8
PAD District V Total	98,303	7,986	106,289	4,513	249,117	103,415	352,532	_	_	580
Alaska	5,938	5,656	11,594	´ -	7,946	18,503	26,449	-	_	1
Arizona	517	-	517	-	29,906	2,761	32,666	-	-	95
California	22,685	459	23,144	1,372	114,147	22,312	136,459	-	-	241
Hawaii	2,200	_	2,200	739	10,617	842	11,459	_	_	- 1
Nevada Oregon	1,151 169	_	1,151 169	_	9,603 11,915	1,494 27 595	11,097 39,510	_	_	1 97
O169011	65,644	1,871	67,515	2,401	64,984	27,595 29,908	94,892	_	_	146

Dashes (-) = No data reported.

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

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

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

Appendix A

Technical Notes

Appendix A

Technical Notes

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

Background

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

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

Discussion of Sampling Frame

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

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

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

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

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

Discussion of the Sample Design

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

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

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

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

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

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

Imputation and Estimation

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

$$\hat{V} = \sum_{h} N_{h} \left(\sum_{i} W_{h}_{i} V_{h}_{i} / \sum_{i} W_{h}_{i} \right)$$

where:

 \hat{V} = total estimated volume

 \sum_{h} = denotes summation over strata

 N_h = stratum population for stratum h

 Σ = denotes summation over units within

stratum h

 $V_{h,i}$ = volume reported for unit i in stratum h

 W_{h-i} = weight attached to unit i in stratum h.

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

The degree of imputation by product and end use at the U.S. total level ranged as follows for the 1998 EIA-821 data: distillate, 0.7 percent for railroad use to 15.8 percent for off-highway use; residual fuel oil, 0.0 percent for all other uses to 1.4 percent for industrial use; and kerosene, 1.8 percent for all other uses to 4.9 percent for residential use.

Collection Methods

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

Data Processing

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

Note 2: Reliability of the Data

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

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

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

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

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

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

where:

$$VAR(\hat{V}) = \sum_{h} n_{h} \left(1 - \frac{n_{h}}{N_{h}} \right) S_{h}^{2}$$

$$S_{h}^{2} = \frac{\sum_{i=1}^{n_{h}} W_{i}^{2} V_{i}^{2} + \overline{V}_{h}^{2} \sum_{i=1}^{n_{h}} W_{i}^{2} - 2 \overline{V}_{h}^{n_{h}} \sum_{i=1}^{n_{h}} W_{i}^{2} V_{i}}{n_{h} - 1}$$

$$\overline{V}_{\!\!\!h} = \frac{\sum\limits_{i=l}^{n_h} W_i \ V_i}{\sum\limits_{i=l}^{n_h} W_i}$$

 \hat{V} = total estimated volume,

 N_h = stratum population for stratum h,

n_b = number of sample units in stratum h,

 V_i = volume for unit i,

W_i = weight for unit i.

Response rates also offer some indication of the reliability and comprehensiveness of survey results. For the 1998 EIA-821 survey, the overall response rate (the number of submissions received, divided by the number of submissions solicited and expected, times 100) was 92.2 percent.

Coefficients of Variation for Sales of Fuel Oil, 1998

Geographic Area	Residential Distillate Fuel Oil	Non-Residential Retail Distillate Fuel Oil	Retail Residual Fuel Oil
J.S. Average	2.1	1.0	0.1
PAD District I Average	2.5	0.9	0.1
	3.2	1.7	0.0
Subdistrict IA Average			
Connecticut	5.3	3.1	0.0
Maine	3.6	2.0	0.0
Massachusetts	7.5	4.8	0.0
New Hampshire	6.9	3.0	0.0
Rhode Island	5.7	9.0	0.0
Vermont	3.7	2.6	0.0
			0.0
Subdistrict IB Average	4.0	2.5	
Delaware	4.5	7.7	0.1
District of Columbia	0.5	0.1	0.0
Maryland	5.0	2.6	0.0
New Jersey	7.4	5.6	0.0
New York	7.4	2.1	0.1
Pennsylvania	6.0	5.2	0.0
Subdistrict IC Average	4.3	1.0	0.1
Florida	11.0	0.8	0.0
Georgia	22.3	3.8	0.0
North Carolina	4.9	3.1	0.2
South Carolina	5.1	4.5	0.0
Virginia	7.2	1.9	1.1
West Virginia	8.0	2.0	0.0
PAD District II Average	3.9	0.9	0.1
Illinois	10.8	5.7	0.0
Indiana	7.9	2.0	0.0
lowa	13.0	3.6	0.0
Kansas	19.0	4.7	0.0
Kentucky	15.7	2.7	0.0
Michigan	8.1	2.0	0.0
Minnesota	11.4	5.3	0.0
Missouri	6.7	2.1	0.0
Nebraska	23.2	2.6	0.0
North Dakota	8.1	3.7	0.3
Ohio	8.1	1.8	0.0
Oklahoma	84.5	4.8	1.8
South Dakota	7.9	3.1	0.0
Tennessee	15.1	1.7	0.1
Wisconsin	12.6	4.4	0.0
PAD District III Average	7.7	5.0	0.0
Alabama	6.1	3.5	0.0
Arkansas	56.2	3.3	0.0
Louisiana	43.4	8.7	0.0
Mississippi	50.7	4.0	0.0
New Mexico Texas	4.1 0.0	3.3 7.8	0.0 0.0
	0.0	7.0	0.0
PAD District IV Average	22.1	0.7	0.0
Colorado	12.0	0.7	0.0
Idaho	7.3	2.5	0.0
Montana	48.3	2.4	0.0
Utah	10.1	1.9	0.0
Wyoming	9.4	2.0	0.0
PAD District V Average	3.3	1.9	0.1
Alaska	7.8	2.0	0.0
Arizona	7.6 11.9	3.2	0.0
California	11.1	5.4	0.3
Hawaii	21.0	5.2	0.0
Nevada	4.8	2.2	0.0
Oregon	6.1	3.6	0.0
Washington	-		

Note: Coefficients of variation that are less than 0.1 and greater than zero are displayed as 0.1. Sources: • Energy Information Administration Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," for 1998.

Note 3: Data Adjustments

Alternate Source Data

After all preliminary tabulations were verified, comparisons were made between the survey results and available alternate source data. The following enduse categories were replaced by alternate source data at the U.S., Petroleum Administration for Defense (PAD) district, or State level:

Tables 1 through 12:

On-Highway Diesel. Distillate fuel oil by State was calculated from the Federal Highway Administration data on highway use of special fuels. Of the 1994 through 1998 special fuels, more than 98 percent is diesel.

Tables 13 through 24:

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

On-Highway Diesel. Distillate fuel oil by State was calculated from the Federal Highway Administration data on highway use of special fuels. Of the 1994 through 1998 special fuels, more than 98 percent is diesel.

1994 through 1998 Adjustments

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

of the *Petroleum Supply Annual* (PSA). The 1998 survey resulted in 660,064 thousand gallons of kerosene at the national level. The products supplied volume at the national level for kerosene was 1,196,580 thousand gallons. Hence, the adjustment factor at the national level for 1998 was 1.81.

Volumes of distillate fuel oil in Tables 13 through 24 were adjusted at the PAD district level to equal products supplied volumes. The adjustment factors at the PAD district level for 1998 are as follows:

Distillate Fuel Oil

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

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

For distillate fuel oil in Tables 13 through 24, the PAD district adjustments were made to each State and product-use category except on-highway diesel use, and electric utility use.

Volumes of residual fuel oil in Tables 13 through 24 were adjusted at the national level to equal the products supplied estimate. The 1998 survey yielded 14,729,841 thousand gallons of residual fuel oil, while the products supplied volume at the national level was 13,599,558 thousand gallons. Thus, the adjustment factor at the national level for 1998 was .83, after subtracting the volumes coming from alternate sources. For residual fuel oil, the adjustments were made to each State and end-use category except electric utility use.

Note 4: End-Use Descriptions and Petroleum Product Definitions

End-Use Descriptions

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

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

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

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

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

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

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

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

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

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

Off-Highway Use. Includes sales for use in:

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

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

Definitions of Petroleum Products and Other Related Terms

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

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

- 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 highspeed diesel engines generally operated under wide variations in speed and load. Includes type C-B diesel fuel used for city buses and similar operations. Properties are defined in ASTM Specification D 975.
 - b. **No. 1 Fuel Oil.** A light distillate fuel oil intended for use in vaporizing pot-type burn-

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

- 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.
 - No. 2 Diesel ≤ .05% Sulfur. The sulfur level does not exceed 0.05 percent by weight.
 - (2) **No. 2 Diesel > .05% Sulfur.** The sulfur level is above 0.05 percent by weight.
 - b. No. 2 Fuel Oil. A distillate fuel oil for use in atomizing type burners for domestic heating or for moderate capacity commercial-industrial burner units. ASTM Specification D 396 specifies for this grade distillation temperatures at the 90-percent point between 540 and 640 degrees Fahrenheit, and kinematic viscosities between 2.0 and 3.6 centistokes at 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 lowand medium-speed diesel engines that conforms to ASTM Specification D 975.

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

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

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

PAD District. Petroleum Administration for Defense Districts

PAD District I:

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

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

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

PAD District II:

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

PAD District III:

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

PAD District IV:

Colorado, Idaho, Montana, Utah, and Wyoming

PAD District V:

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

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

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

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

Appendix B

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

Appendix B

EIA-821 (12-98)

U.S. DEPARTMENT OF ENERGY Energy Information Administration

Form Approved
OMB Number: 1905-0174

Form Expires: 12/31/99

EIA-821: ANNUAL FUEL OIL AND KEROSENE SALES REPORT

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

PART I. IDENTIFICATION DATA

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

Provide	Corrections to Company Name, Teleph	one Number, and Addi	ress 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 Co								
9. Reference Year 10. Type of 1998 (1)	ion		Number of h You Are						
12. Which of the following best describes	this firm at the end of 1998?	13. Effective Date	of Status C	Change					
						n D	ay	Ye	ar
(2) □ Leased	Complete items 13 to 25, and Part II for that portion of 1998 in which the firm was active under your ownership and control	14. Name of Com Subsidiary of A		o / Leased	I to / Me	erged in	ito /		
operation	Complete item 13, then skip to and complete items 22-25 and Part II for the portion of 1998 in which the firm was active under your ownership and control	15. Name of Cont16. Contact's Tele		nber			1		
d. Dubsidiary of another	Complete items 13 to 25, and Part II for that portion of 1998 in which the firm	17. Street	-		-				
	was active under your ownership and control	18. PO Box / RFD							
f. Not in petroleum business	Skip to and complete items 22-25	19. City		20. State	e 2	21. Zip	Code		
PREPARED BY: Check approp	riate box. If preparer is different fro	m contact person, co	omplete line	s 24 and 2	25.				
22. Preparer same as contact person	n shown on label	23. Date							
24. Preparer's Name		25. Preparer's Tel	lephone nun	mber					
Public reporting burden for this collection of inform sources, gathering and maintaining the data nee other aspect of this collection of information, includ Independence Ave. SW, Washington, DC 20585	ded, and completing and reviewing the ding suggestions for reducing this burden,	collection of information to the Energy Informati	 Send comr on Administra 	ments regardation, Statist	ding this	s burden thods Gr	estima oup El-	ite or :	any 000

Page 1

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	·,								
Name of Firm Reporting		DOE ID Number	Reference Year 1998	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	Kero	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								
	Sold directly to consumers for	Distilla	nte Fuel Oil (Report in Actu	ual 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 ≤ .05% Sulfur, Low								
13	No. 2 Diesel > .05% Sulfur, High								
14	No. 4								
	Industrial Use (Manufacturing and Mining):								
15	No. 1								
16	No. 2 Fuel Oil								
17	No. 2 Diesel ≤ .05% Sulfur, Low								
18	No. 2 Diesel > .05% Sulfur, High								
19	No. 4								
20	Oil Company Use (Drilling and Own Company Refining):								
21	Railroad Use:								
22	Vessel Bunkering (Shipping and Boa	ating):							

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Name of Firm Reporting		DOE ID Number	Reference Year 1998	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)						
NO.	Type of Fuel and Ose							
Distillate Fuel OilContinued (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	I						
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)							

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Name of Firm Reporting		DOE ID Number		Reference Year 1998		Page of			
PART II. TOTAL SALES DURING THE REFERENCE YEAR. (READ PAGES 2-5 OF INSTRUCTIONS CAREFULLY)									
Line		States of Destination (Enter STANDARD ABBREVIATIONS)							
No.	Type of Fuel and Use								
Motor Gasoline Include Gasohol (Report in Actual Gallons)									
		Conventional	Reformulated	Conv	rentional	Reformulated	Conventional	Reformulated	
44	Sold directly to the Ultimate Consumer (Include All grades of Gasoline) (Exclude No. 2 Diesel and Aviation Gasoline):								
45	Sold to Dealers, Resellers, and Refiners (Include Rack and DTW Sales):								
46	Total Motor Gasoline (Add Lines 44 and 45)								
Propane (Report in Actual Gallons)									
47	Delivered Residential Propane:								
48	Sold to Customers for All Other End Uses:								
49	Sold to Dealers, Resellers, and Refiners:								
50	Total Propane (Add Lines 47 thru 49)								
51	Does this firm sell any of these petr	oleum products	? Check boxes for	all that y	you sell.		·		
	a. Distillate b.	☐ Crude Oil		c. 🗆 (Other LPG	6	d. 🗆 No.	4 Fuel Oil	
	e. \square Aviation Gasoline f.	□ Jet Fuel		g. 🗆 (Other:	(Specify)			
52									
	a. □ Sell b.	□ Use		c. 🗆	No				
	Send the completed form to: U.S. Department of Energy Energy Information Administration (EIA-821) P.O. Box 833 Merrifield, VA. 22116-0833								
or telefax completed form by calling: 1(703) 827-9514, Attn: EIA-821									