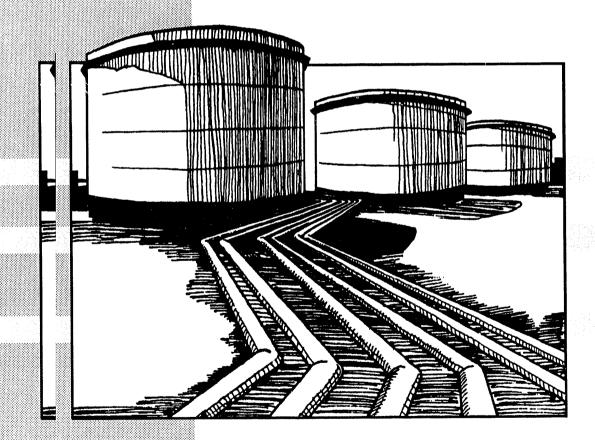


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Winter Fuels Report

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Week Ending: November 19, 1993





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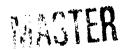
Cover: An artist's rendering of bulk terminal storage tanks.



Winter Fuels Report

Week Ending: November 19, 1993

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



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Petroleum Supply Monthly, updated on the 20th of the month

Petroleum Marketing Monthly, updated on the 20th of the month

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Natural Gas Monthly, updated on the 20th of the month

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Quarterly Coal Report, updated 60 days after the end of the quarter

Electric Power Monthly, updated on the 1st of the month

Monthly Energy Review, updated the last week of the month

Short Term Energy Outlook, updated 60 days after the end of the quarter.

Contacts

he Winter Fuels Report is prepared by the Office of Oil and Gas, Energy Information Administration. General information about his document may be obtained from Jimmie L. Petersen (202) 586-6401, Director of the Office of Oil and Gas or Charles C. Heath 102) 586-6860, Director of the Petroleum Supply Division. Specific questions can be directed to:

Propane/Distillate Oil Supply	Susan Harris Stacey Ungerleider	(202) 586-8384 (202) 586-5130
Propane/Distillate Prices	Lamar Gowland Alice Lippert	(202) 586-6608 (202) 586-9600
Natural Gas	Audrey Corley Eva Fleming	(202) 586-4804 (202) 586-6113

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Wednesdays at 5:00 p.m., week ending propane inventory data is available through the Electronic Publishing System (EPUB) under the WFRH section.

Preface

The Winter Fuels Report is intended to provide concise, timely information to the industry, the press, policymakers, consumers, analysts, and State and local governments on the following topics:

distillate fuel oil net production, imports and stocks on a U.S. level and for all Petroleum Administration for Defense Districts (PADD) and product supplied on a U.S. level;

propane net production, imports and stocks on a U.S. level and for PADD's I, II, and III;

natural gas supply and disposition and underground storage for the U.S. and consumption for all PADD's; as well as selected National average prices.

residential and wholesale pricing data for heating oil and propane for those States participating in the joint Energy Information Administration (EIA)/State Heating Oil and Propane Program;

crude oil and petroleum price comparisons for the U.S. and selected cities; and

a 6-10 Day, 30-Day, and 90-Day outlook for temperature and precipitation and U.S. total heating degree-days by city.

The distillate fuel oil and propane supply data are collected and published weekly. The data are based on company submissions for the week ending 7:00 a.m. for the preceding Friday. Weekly data for distillate fuel oil are also published in the *Weekly Petroleum Status Report*. Monthly data for distillate fuel oil and propane are published in the *Petroleum Supply Monthly*.

The residential pricing information is collected by the EIA and the State Energy Offices on a semimonthly basis for the EIA/State Heating Oil and Propane Program. The wholesale price comparison data are collected daily and are published weekly. Residential heating fuel prices are derived from price quotes for home delivery of No. 2 fuel oil and propane. As such, they reflect prices in effect on the dates shown. Wholesale heating oil and propane prices are estimates using a sample of terminal quotes to represent average State prices on the dates given. The Computer Petroleum Corporation, Inc., defines these prices to be prices f.o.b. terminal, excluding taxes, discounts, and hauling allowances. The crude oil and petroleum product prices are from various industries sources as referenced on each table.

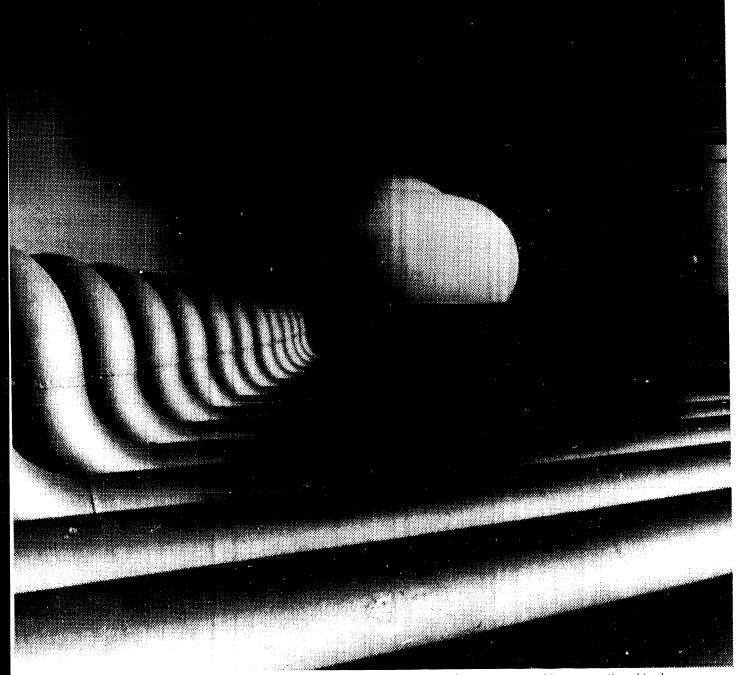
The natural gas data are collected and published monthly in the Natural Gas Monthly.

This report will be published weekly by the EIA starting the second week in October 1993 and will continue until the second week in April 1994. The data will also be available electronically after 5:00 p.m. on Thursday during the heating season through the EIA Electronic Publication System (EPUB). See page ii for details.

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Liquefied petroleum gases are stored in pressurized tanks while other products are stored in conventional tanks.

Highlights

DISTILLATE FUEL OIL

U.S. distillate fuel oil stocks grew very slightly last week as demand increased by 0.1 million barrels per day (MMBD). However, they remain near the upper bound of their seasonal average range. High-sulfur distillate is 83.9 MMB, or about 60% of the total.

Heating oil is 75% of the inventory in PADD I, but 44% and 53% respectively of the inventories in PADDs II and III. I tocks are above normal in PADD I, within expected bounds in PADDs II, IV, and V, but below normal at this time in PADD III.

Table H1. Distillate Fuel Oil

(Thousand Barrels per Da	ly, Except Where Noted)		
		Week Ending	The second secon
which differ plants in 17th and 1 parameters are supplying a majority and a supplying a su	11/19/92	11/12/93	11/19/93
Production	3,240	3,418	3,465
Imports	236	161	178
Product Supplied	2,929	3,305	3,429
Ending Stocks (million barrels)			
East Coast (PADD I)	66.8	69.5	68.6
Midwest (PADD II)	30.8	29.0	29.7
Gulf Coast (PADD III)	32.5	27.0	27.0
U.S. Total	142.5	138.4	138.8

Source: Energy Information Administration (EIA), Weekly and Monthly Petroleum Supply Reporting Systems.

PROPANE

U.S. stocks of propane exhibited seasonal declines last week while inventories remain above normal levels for this time of year. As of the week ending November 19, 1993, the Nation's supply of propane was 58.2 million barrels (MMB). This level was approximately 1.8 MMB below the inventory level for the week ending November 12, 1993.

Regionally, since the week ending November 12, 1993, inventory levels decreased in PAD Districts II and III while remaining relatively unchanged in PAD District I. East Coast stocks dropped by 0.1 MMB while in the Midwest inventories declined by 0.6 MMB. In the Gulf Coast, which is the largest propane producing as well as consuming section of the Nation, the inventory level decreased by 1.1 MMB.

The drop in propane inventories was partly a result of movements of propane from the Gulf Coast to the Midwest. The shift in stocks was to maintain supplying normal residential demand. Also, a significant price differential in propane between Mont Belvieu and Conway drew the product north to Conway.

Table H2. Propane Stocks by Petroleum Administration for Defense Districts (PADD) I, II, and III (Thousand Barrels)

, jy no man a wat	October		Week Ending										
PAD Districts	1992	1992	10/15/93	10/22/93	10/29/93	11/05/93	11/12/93	11/19/93					
East Coast (PADD I)	4,342	4,702	^E 4,399	^E 4,485	^E 4,465	^E 4,627	^E 4,356	^E 4,259					
Midwest (PADD II)	21,586	16,342	^E 23,657	^E 23,608	^E 22,816	^E 21,178	E20,181	^E 19,540					
Gulf Coast (PADD III)	29,911	27,780	^E 36,301	^E 36,056	^E 36,017	^E 36,013	^E 34,016	^E 32,956					
Total (PADD I-III)	55,839	48,824	^E 64,357	^E 64,149	^E 63,298	^E 61,818	^E 58,553	^E 56,755					
U.S. Total	58,124	50,834	E66,007	^E 65,794	^E 64,921	^E 63,403	^E 60.054	^E 58,210					

E = Estimated data.

NATURAL GAS

Supply and Disposition

The Energy Information Administration (EIA) estimates that total gas supply available for disposition in September 1993 was an estimated 1,699 billion cubic feet, 4 percent greater than in September 1992. The September 1993 total includes 9 billion cubic feet of supplemental fuel supplies, 188 billion cubic feet of imported gas, and 25 billion cubic feet withdrawn from storage.

On the disposition side, in September 1993, the consumption of 1,311 billion cubic feet was 5 percent greater than in September 1992. Total disposition included 378 billion cubic feet of gas injected into underground storage reservoirs and exports of 11 billion cubic feet.

Consumption

Data for the four major end-use sectors indicate that the total amount of gas delivered to all consumers increased to 1,204 billion cubic feet in August 1993, from 1,131 billion cubic feet in August 1992. Consumption in the industrial sector decreased from 618 billion cubic feet in July 1993 to 612 billion cubic feet in August 1993, a decrease of 1 percent.

The electric utility sector consumed 357 billion cubic feet in August 1993, which is 7 percent greater than in July 1993 and an 18-percent increase from August 1992.

The residential sector consumed 120 billion cubic feet and the commercial sector consumed 115 billion cubic feet in August 1993.

Natural Gas Prices

In August 1993, major interstate pipeline companies paid an average of \$2.35 per thousand cubic feet for gas purchased from domestic producers. 16 percent greater than the July's \$2.02 total. In August 1993, these pipeline companies paid \$2.25 per thousand cubic feet for imported gas. Distributors paid an average of \$3.35 per thousand cubic feet for gas at the city gate in August 1993. Residential consumers paid \$8.10 per thousand cubic feet in August 1993, 9 percent higher than what they paid in August 1992.

Source: Energy Information Administration (EIA), Monthly Petroleum Supply Reporting System and Form EIA-807, "Propane Telephone Survey."

PRICES

Average residential heating oil and propane prices rose 0.1 and 0.3 cents per gallon, respectively, during the two-week period ending November 15, 1993. The current residential average heating oil price, 94.7 cents per gallon, is 3.6 cents lower than the November 16, 1992, price. Conversely, the residential propane price, at 88.3 cents per gallon, is 0.7 cent higher. Wholesale heating oil and propane prices during the current fortnight showed decreases of 0.9 and 0.4 cents per gallon, respectively, to 53.8 and 35.9. Compared to the same time last year, wholesale heating oil and propane prices are down 6.3 and 3.3 cents per gallon, respectively. Price decreases may be in reaction to lower crude prices and ample stocks for these two products. The most notable regional trend appeared to be the continuation of the modest downturn in Midwest residential heating oil prices as stocks have returned to normal levels.

Table H3. Residential Heating Oil Prices by Petroleum Administration for Defense Districts (Cents per Gallon)

	October	November			Week Er	nding
PAD Districts	1992	1992	10/04/93	10/18/93	11/01/93	11/15/93
Average	97.2	98.3	93.6	94.7	94.6	94.7
East Coast	98.6	99.8	95.0	95.6	95.8	95.9
New England	96.3	96.6	91.4	91.7	91.6	91.6
Central Atlantic	100.3	101.9	97.4	98.1	98.5	98.7
Lower Atlantic	93.1	94.6	89.0	89.6	89.3	89.6
Midwest	89.8	90.0	85.8	89.3	88.2	87.4

P=Preliminary data.

Source: Based on data collected by State Energy Offices.

Table H4. Residential Propane Prices by Petroleum Administration for Defense Districts (Cents per Gallon)

	October	November			Week Er	nding
PAD Districts	1992	1992	10/04/93	10/18/93	11/01/93	11/15/93 ^F
Average	85.8	87.2	87.4	87.6	R _{88.0}	88.3
East Coast	115.1	115.4	111.3	111.2	111.3	111.7
New England	116.9	116.6	115.6	115.6	115.5	115.7
Central Atlantic	125.2	125.6	121.1	120.8	^R 120.6	120.9
Lower Atlantic	100.2	100.5	95.2	95.3	95.6	96.3
Midwest	70.2	72.1	74.0	74.2	^R 74.6	74.9

P=Preliminary data.

R=Revised data.

Source: Based on data collected by State Energy Offices.

Distillate Fuel Oil



Overall view of a typical bulk terminal facility.

Table 1. Monthly and Weekly Net Production, Imports, and Stocks of Distillate Fuel Oil by Petroleum Administration for Defense District (PADD) and Product Supplied for the United States

(Thousand Barrels per Day, Except Where Noted)

District/Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Total U.S.	L		L	I			ll			L		
Net Production ^a												
1991	2,845	2,870	2,865	2,819	2,929	2,941	2,998	2,961	3,055	3,040	3,103	3,107
1992	2,818	2,661	2,749	2,930	2,933	2,995	3,067	2,865	2,983	3,251	3,240	3,179
1993	2,909	2,813	2,918	3,010	2,930	3,095	3,185	3,084				
Week Ending												
1993	09/03	09/10	09/17	09/24	10/01	10/08	10/15	10/22	10/29	11/05	11/12	11/19
Total	3,374	3,293	3,205	3,347	3,287	3,456	3,528	3,626	3,479	3,435	3,418	3,465
0.05% Sulf & Under Greater than 0.05%	1,497	1,523	1,365	1,553	1,556	1,755	1,856	1,961	1,910	1,751	1,836	1,761
Greater than 0.05%	1,877	1,770	1,840	1,794	1,731	1,701	1,672	1,665	1,569	1,684	1,582	1,704
Imports												
1991	192	139	206	258	186	209	155	168	237	207	249	252
1992	232	217	238	202	179	157	172	229	237	263	236	229
1993	182	224	235	209	153	168	130	159				
Week Ending												
1993	09/03	09/10	09/17	09/24	10/01	10/08	10/15	10/22	10/29	11/05	11/12	11/19
Total	121	192	129	167	141	180	123	138	397	297	161	178
0.05% Sulf & Under	70	112	72	78	38	121	47	46	254	144	72	73
Greater than 0.05%	51	80	57	89	103	59	76	92	143	153	89	105
Stocks (Million Barr	ele)											
1991	111.7	101.6	98.2	102.9	106.9	113.7	124.7	131.4	140.1	138.3	144.5	143.5
1992	126.7	108.8	97.7	92.1	96.4	104.5	114.6	122.8	127.8	136.8	146.3	140.6
1993	130.2	109.4	97.5	98.3	101.6	109.4	120.2	127.9		10070		
Week Ending												
1993	09/03	09/10	09/17	09/24	10/01	10/08	10/15	10/22	10/29	11/05	11/12	11/19
Total	127,2	130.7	131.3	131.5	131,1	132.9	133.4	134.4	139.1	137.6	138.4	138.8
0.05% Sulf & Under	47.6	50.6	53.4	56.6	55.4	53.6	52.0	53.4	56.4	52.3	52.8	54.8
Greater than 0.05%	79.7	80.1	77.9	74.9	75.7	79.4	81.4	80.9	82.7	85.3	85.6	83.9
5												
Product Supplied												
1991	3,367	2,976	2,984	2,839	2,765	2,775	2,648	2,770	2,865	3,047	2,921	3,087
1992 1993	3,231	3,219	3,207	3,039	2,753	2,679	2,710	2,705	2,908	3,056	2,929	3,316
	3,141	3,478	3,386	2,949	2,624	2,843	2,669	2,797				
Week Ending	00/00	00/40	00/47	00/04	40/04	10/00	40/45	40/00	40/00	4410=	44/46	44/46
1993	09/03	09/10	09/17	09/24	10/01	10/08	10/15	10/22	10/29	11/05	11/12	11/19
	2,979	2,855	3,122	3,360	3,325	3,227	3,432	3,485	3,056	3,796	3,305	3,429
East Coast (PADD I)												
Net Production ^a												
1991	344	373	344	299	339	367	368	359	376	351	383	395
1992	332	292	275	371	355	369	406	352	361	448	426	395
1993	370	335	335	359	322	426	417	375			•	
Week Ending												
1993	09/03	09/10	09/17	09/24	10/01	10/08	10/15	10/22	10/29	11/05	11/12	11/19
Total	448	474	441	465	481	508	494	503	532	523	463	495
0.05% Sulf & Under	121	161	132	215	164	171	223	249	251	261	213	159
Greater than 0.05%	327	313	309	250	317	337	271	254	281	262	250	336
Stocks (Millian Pass	ala\											
Stocks (Million Barr	eis) 39.8	31.8	29.8	32.3	35.5	43.6	51.0	56.6	62.3	65.6	66.8	63.4
1992	53.4	43.5	31.0	28.5	30.1	43.6 37.5	45.4	53.6	58.1	64.8	68.2	65.1
	58.6	43.2	33.1	34.5	37.1	43.2	51.5	59.2	50,1	U 4 .0	00.2	00.1
1993				55	4. ,,		55					
1993 Week Ending												
Week Ending	09/03	09/10	09/17	09/24	10/01	10/08	10/15	10/22	10/20	11/05	11/12	11/10
Week Ending 1993	09/03 59.6	09/10 63.2	09/17 63.9	09/24 65.1	10/01	10/08 67.6	10/15	10/22	10/29	11/05	11/12	11/19 68.6
Week Ending 1993 Total	59.6	63.2	63.9	65.1	66.9	67.6	68.3	68.5	70.6	69.7	69.5	68.6
Week Ending 1993												

Table 1. Monthly and Weekly Net Production, Imports, and Stocks of Distillate Fuel Oil by Petroleum Administration for Defense District (PADD) and Product Supplied for the United States (Continued) (Thousand Barrels per Day, Except Where Noted)

District/Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
New England (PADD Stocks (Million Bar	rels)	CHARLES PROPERTY INC.	<u> </u>									The state of the s
1991	5.4	3.6	3.5	4.4	5.1	6.5	8.7	9.9	10.8	11.0	11.8	9.9
1992	7.4	6.7	4.4	3.3	4.7	6.8	9.5	11.0	11.2	12.1	11.6	9.9
1993	10.0	8.0	5.8	5.3	5.5	7.7	8.9	10.5				
Week Ending												
1993	09/03	09/10	09/17	09/24	10/01	10/08	10/15	10/22	10/29	11/05	11/12	11/19
Total	11.1	11.8	12.6	12.4	14.6	14.6	15.1	14.2	14.7	13,7	13.4	13.2
0.05% Sulf & Under	2.5	3.1	3.1	3.4	4.0	5.4	4.1	3.0	3.4	2.7	2.5	2.7
Greater than 0.05%	8.6	8.7	9.5	9.0	10.6	9.2	11.0	11.2	11.3	10.9	10.9	10.5
Central Atlantic (PAD Stocks (Million Bar	•											
1991	22.0	18.1	14.8	17.5	20.0	25.5	30.6	35.7	39.6	42.4	41.8	39.6
1992	34.6	25.8	17.0	15.8	14.8	18.0	24.9	30.9	35.7	40.3	42.8	41.0
1993	34.8	24.0	16.9	19.6	21.0	25.0	31.1	37.5	30.7	,,,,	72.0	-71.0
Week Ending												
1993	09/03	09/10	09/17	09/24	10/01	10/08	10/15	10/22	10/29	11/05	11/12	11/19
Total	37.9	39.5	39.6	40.9	40.9	41.8	42.0	41.6	43.2	43.0	42.4	41.9
0.05% Sulf & Under	11.9	11.8	13.1	15.3	15.0	11.6	11.8	13.0	12.9	9.1	8.6	7.5
Greater than 0.05%	26.1	27.8	26.5	25.5	25.9	30.2	30.2	28.5	30.4	33.9	33.8	34.4
Lower Atlantic (PADE Stocks (Million Bar	reis)	40.0	44.4	40.4	40.5		44.5		44	40.5	40.0	4.5.
1991	12.4	10.0	11.4	10.4	10.3	11.6	11.6	11.0	11.9	12.2	13.3	13.9
1992 1993	11.3 13.8	11.0 11.1	9.5 10.5	9.4 9.6	10.6 10.6	12.7 10.5	11.1 11.6	11.7 11.2	11.3	12.4	13.7	14.1
Week Ending					3		3					
1993	09/03	09/10	09/17	09/24	10/01	10/08	10/15	10/22	10/29	11/05	11/12	11/19
Total	10.6	11.8			the state of the s							
0.05% Sulf & Under	3.8	4.8	11.6 5.3	11.8 5.2	11.5	11.2	11.2	12.7	12.7	13.1	13.6	13.5
Greater than 0.05%	6.8	7.0	6.3	5.2 6.6	5.5 6.0	5.2 6.0	5.0 6.2	6.0 6.8	6.2 6.6	6.3 6.7	5.7 7.9	7.1 6.4
Midwest (PADD II) Net Production ^a					· · · · · · · · · · · · · · · · · · ·							
1991	665	679	677	679	724	734	769	711	742	778	746	734
1992	683	685	700	654	722	739	739	743	738	774	746 779	734 768
1993	757	692	724	747	733	753	75 5	700	7 30	117	113	,00
Week Ending												
1993	09/03	09/10	09/17	09/24	10/01	10/08	10/15	10/22	10/29	11/05	11/12	11/19
Total	690	774	821	818	769	801	869	880	920	827	891	863
0.05% Sulf & Under	240	341	277	327	366	390	465	453	510	407	504	438
Greater than 0.05%	450	433	544	491	403	411	404	427	410	420	387	425
Stocks (Million Bar												
1991	29.9	29.8	30.0	30.6	31.6	31.2	33.1	33.2	32.1	30.4	32.2	33.0
1992 1993	31.2 32.1	29.8 29.1	30.1 29.0	27.7 28.3	27.4 26.9	29.0 27.7	29.3 28.7	31.1 27.3	30.8	29.1	31.9	31.3
Week Ending	J2.1	20.1	23.0	20.0	20.9	21.1	20.7	21.3				
	00/03	00/40	00/17	00/04	10/01	10/00	40/4=	10/00	40/00	44/00	44140	44140
1993	09/03	09/10	09/17	09/24	10/01	10/08	10/15	10/22	10/29	11/05	11/12	11/19
Total	26.8	27,7	27.4	27.8	27.5	27.0	25.9	27.0	29.4	28.8	29.0	29.7
0.05% Sulf & Under Greater than 0.05%	10.5 16.3	12.0 15.7	13.3 14.1	13.2 14.6	13.7 13.8	12.8 14.2	12.2 13.7	12.9	15.5 14.0	15.7	15.8 13.2	16.5 13.2
	164	16.7	1/1					14.1		13.1		

Table 1. Monthly and Weekly Net Production, Imports, and Stocks of Distillate Fuel Oil by Petroleum Administration for Defense District (PADD) and Product Supplied for the United States (Continued) (Thousand Barrels per Day, Except Where Noted)

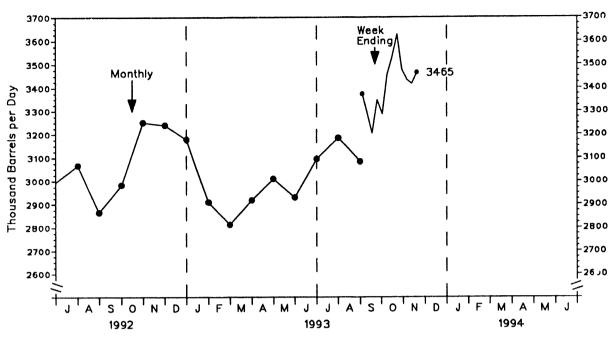
District/Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Gulf Coast (PADD III) Net Production ^a		TO THE PERSON OF THE PARTY SAME		· contraction of the contraction	***************************************			enero con our response e es comb				The second of th
1991	1,286	1,293	1,328	1,295	1,292	1,264	1,297	1,329	1,344	1,332	1,410	1,422
1992 1993	1,274 1,300	1,170	1,220	1,327 1,349	1,302	1,314	1,348	1,205	1,323	1,452	1,486	1,462
	1,300	1,271	1,315	1,349	1,281	1,342	1,430	1,466				
Week Ending												4444
1993	09/03	09/10	09/17	09/24	10/01	10/08	10/15	10/22	10/29	11/05	11/12	11/19
Total 0.05% Sulf & Under	1,583 770	1,406	1,299 663	1,370	1,410 680	1, 546 789	1,505 765	1,588 833	1,377 713	1,447 660	1,417 714	1,429 751
Greater than 0.05%	813	661 745	636	664 706	730	757	740	755	664	787	703	678
	-	, ,,,	000	, 55	, 00		, ,,	. 00	001		, 00	0.0
Stocks (Million Barr												
1991	27.2	25.9	25.1	26.7	25.5	24.7	27.4	28.6	31.0	28.5	31.2	31.7
1992 1993	28.8 27.1	22.5 24.6	23.4 23.1	24.0 23.4	25.6 24.1	24.7 25.3	27.1 26.7	26.4 29.3	27.5	31.5	33.2	30.8
	27.1	24.0	23.1	23.4	24.1	25.5	20.7	29.3				
Week Ending					4004	40400		4.0.00		4446=	4444	
1993	09/03	09/10	09/17	09/24	10/01	10/08	10/15	10/22	10/29	11/05	11/12	11/19
Total 0.05% Sulf & Under	28.4 12.2	27.6	27.2	28.5	26.1 11.8	27.3	27.8	27.2	27.3	26.3	27.0	27.0
Greater than 0.05%	16.2	11.9 15.8	11.7 15.5	12.7 13.8	14.3	12.4 14.9	12.5 15.3	12.1 15.0	11.8 15.4	10.6 15.7	12.4 14.5	12.6 14.4
Greater than 0.0576	10.2	10.0	13.3	13.0	14.0	17.5	13.3	15.0	13.4	10.7	14.5	דידו
Rocky Mountain (PAD Net Production ^a	D IV)											
1991	118	113	131	122	133	136	147	139	126	136	123	118
1992	112	116	126	117	119	125	128	120	122	131	120	116
1993	103	109	113	109	132	125	121	124				
Week Ending												
1993	09/03	09/10	09/17	09/24	10/01	10/08	10/15	10/22	10/29	11/05	11/12	11/19
Total	170	192	168	187	168	141	143	128	145	144	145	151
0.05% Sulf & Under	65	91	82	108	84	78	75	72	74	70	67	90
Greater than 0.05%	105	101	86	79	84	63	68	56	71	74	78	61
Stocks (Million Barr	els)											
1991	3.2	3.3	3.5	3.1	3.3	3.3	3.2	3.0	2.8	2.6	2.8	3.2
1992	2.7	2.5	2.8	2.3	2.2	2.4	2.5	2.1	2.0	2.3	2.7	2.6
1993	2.5	2.4	2.4	2.0	2.4	2.3	2.4	2.1				
Week Ending												
1993	09/03	09/10	09/17	09/24	10/01	10/08	10/15	10/22	10/29	11/05	11/12	11/19
Total	2.1	2.5	2.6	2.5	2.3	2.3	2.1	2.0	2.1	2.0	2.1	2.5
0.05% Sulf & Under	0.6	1.1	1.2	1.2	1.0	1.1	1.1	1.1	1.1	1.0	1.2	1.5
Greater than 0.05%	1.5	1.4	1.4	1.3	1.3	1.2	1.0	0.9	1.0	1.0	1.0	1.0
West Coast (PADD V)												
Net Production ^a	432	411	385	424	441	440	418	423	467	442	442	43B
	432 418	411 398	385 427	424 462	441 436	440 448	418 446	423 446	467 441	442 447	442 428	438 438
Net Production ^a	432 418 379	411 398 406	385 427 432	424 462 446	441 436 462	440 448 450	418 446 461	423 446 419	467 441	442 447	442 428	438 438
Net Production ^a 1991 1992 1993	418	398	427	462	436	448	446	446				
Net Production ^a 1991 1992 1993 Week Ending	418 379	398	427 432	462 446	436 462	448 450	446 461	446 419	441	447	428	438
Net Production ^a 1991 1992 1993	418	398 406	427	462	436	448	446	446				438 11/19
Net Production ^a 1991 1992 1993 Week Ending 1993 Total 0.05% Sulf & Under	418 379 09/03 483 301	398 406 09/10 447 269	427 432 09/17 476 211	462 446 09/24 507 239	436 462 10/01 459 262	448 450 10/08	446 461 1 0/15	446 419 10/22	441 10/29	447 11/05	428 11/12	438 11/19 527 323
Net Production ^a 1991 1992 1993 Week Ending 1993 Total	418 379 09/03 483	398 406 09/10 447	427 432 09/17 476	462 446 09/24 507	436 462 10/01 459	448 450 10/08 460	446 461 10/15 517	446 419 10/22 527	10/29 505	447 11/05 494	428 11/12 502	438 11/19 527
Net Production ^a 1991 1992 1993 Week Ending 1993 Total 0.05% Sulf & Under Greater than 0.05%	418 379 09/03 483 301 182	398 406 09/10 447 269	427 432 09/17 476 211	462 446 09/24 507 239	436 462 10/01 459 262	448 450 10/08 460 327	446 461 10/15 517 328	446 419 10/22 527 354	10/29 505 362	11/05 494 353	428 11/12 502 338	438 11/19 527 323
Net Production ^a 1991 1992 1993 Week Ending 1993 Total 0.05% Sulf & Under Greater than 0.05% Stocks (Million Barre	418 379 09/03 483 301 182	398 406 09/10 447 269 178	427 432 09/17 476 211 265	462 446 09/24 507 239 268	436 462 10/01 459 262 197	10/08 460 327 133	10/15 517 328 189	10/22 527 354 173	10/29 505 362 143	11/05 494 353 141	428 11/12 502 338 164	11/19 527 323 204
Net Production ^a 1991 1992 1993 Week Ending 1993 Total 0.05% Sulf & Under Greater than 0.05% Stocks (Million Barre	418 379 09/03 483 301 182	398 406 09/10 447 269 178	427 432 09/17 476 211 265	462 446 09/24 507 239 268	436 462 10/01 459 262 197	10/08 460 327 133	10/15 517 328 189	10/22 .527 .354 .173	10/29 505 362 143	11/05 494 353 141	11/12 502 338 164	11/19 527 323 204
Net Production ^a 1991 1992 1993 Week Ending 1993 Total 0.05% Sulf & Under Greater than 0.05% Stocks (Million Barre	418 379 09/03 483 301 182	398 406 09/10 447 269 178	427 432 09/17 476 211 265	462 446 09/24 507 239 268	436 462 10/01 459 262 197	10/08 460 327 133	10/15 517 328 189	10/22 527 354 173	10/29 505 362 143	11/05 494 353 141	428 11/12 502 338 164	11/19 527 323 204
Net Production ^a 1991 1992 1993 Week Ending 1993 Total 0.05% Sulf & Under Greater than 0.05% Stocks (Million Barre 1991 1992 1993	09/03 483 301 182 els) 11.5 10.7	398 406 09/10 447 269 178	99/17 476 211 265	462 446 09/24 507 239 268	436 462 10/01 459 262 197	10/08 460 327 133	10/15 517 328 189	10/22 .527 .354 .173	10/29 505 362 143	11/05 494 353 141	11/12 502 338 164	11/19 527 323 204
Net Production ^a 1991 1992 1993 Week Ending 1993 Total 0.05% Sulf & Under Greater than 0.05% Stocks (Million Barre 1991 1992 1993 Week Ending	09/03 483 301 182 els) 11.5 10.7 9.9	398 406 09/10 447 269 178 10.9 10.4 10.1	99/17 476 211 265 9.9 10.4 9.9	09/24 507 239 268	436 462 10/01 459 262 197 11.1 11.1 11.0	10/08 460 327 133 10.9 10.8 10.9	10/15 517 328 189 10.0 10.4 10.9	10/22 .527 .354 .173 10.0 .9.6 .10.0	10/29 505 362 143 11.9 9.5	11/05 494 353 141 11.3 9.1	11/12 502 338 164 11.5 10.3	11/19 527 323 204 12.1 10.8
Net Production ^a 1991 1992 1993 Week Ending 1993 Total 0.05% Sulf & Under Greater than 0.05% Stocks (Million Barre 1991 1992 1993 Week Ending 1993	09/03 483 301 182 els) 11.5 10.7 9.9	398 406 09/10 447 269 178 10.9 10.4 10.1	99/17 476 211 265 9.9 10.4 9.9	462 446 09/24 507 239 268 10.2 9.6 10.2	436 462 10/01 459 262 197 11.1 11.1 11.0	10/08 460 327 133 10.9 10.8 10.9	10/15 517 328 189 10.0 10.4 10.9	10/22 .527 .354 .173 .10.0 .9.6 .10.0	10/29 505 362 143 11.9 9.5	11/05 494 353 141 11.3 9.1	11/12 502 338 164 11.5 10.3	11/19 527 323 204 12.1 10.8
Net Production ^a 1991 1992 1993 Week Ending 1993 Total 0.05% Sulf & Under Greater than 0.05% Stocks (Million Barre 1991 1992 1993 Week Ending	09/03 483 301 182 els) 11.5 10.7 9.9	398 406 09/10 447 269 178 10.9 10.4 10.1	99/17 476 211 265 9.9 10.4 9.9	09/24 507 239 268	436 462 10/01 459 262 197 11.1 11.1 11.0	10/08 460 327 133 10.9 10.8 10.9	10/15 517 328 189 10.0 10.4 10.9	10/22 .527 .354 .173 10.0 .9.6 .10.0	10/29 505 362 143 11.9 9.5	11/05 494 353 141 11.3 9.1	11/12 502 338 164 11.5 10.3	11/19 527 323 204 12.1 10.8

^a Net production equals gross production minus input. Negative production will occur when the amount of product produced during the month is less than the amount of that same product reprocessed (input) or reclassified to become another product during the same month.

Notes: • Totals may not equal sum of components due to independent rounding. • Sum of PADD's IX, IY, and IZ may not equal PADD I because of independent estimation.

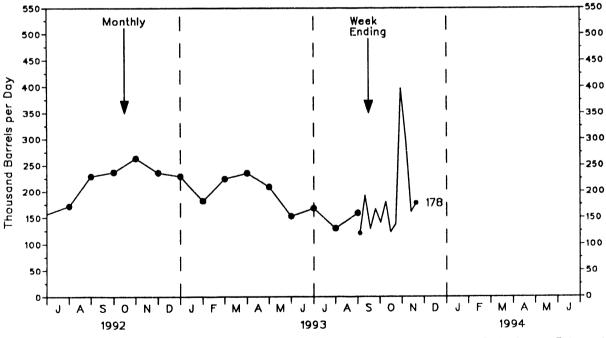
Source: Energy Information Administration, Weekly and Monthly Petroleum Supply Reporting Systems. Magnitudes of revisions to monthly data are published in Appendix C of the *Petroleum Supply Monthly*.

Figure 1. U.S. Distillate Fuel Oil Production



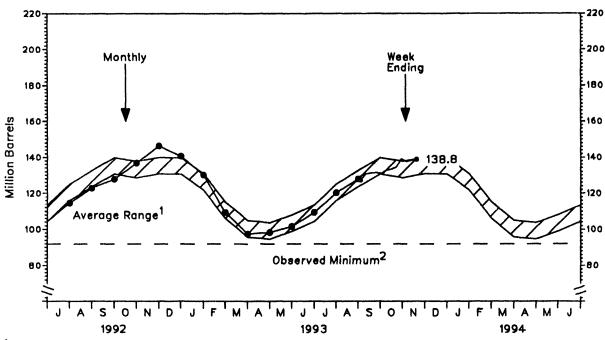
Source: • Monthly Data: 1992, EIA, *Petroleum Supply Annual*; 1993, *Petroleum Supply Monthly*. • Week-Ending Production: Estimates based on weekly data collected on Form EIA-800.

Figure 2. U.S. Distillate Fuel Oil Imports



Source. • Monthly Data: 1992, EIA, *Petroleum Supply Annual*; 1993, *Petroleum Supply Monthly*. • Week-Ending Imports: Estimates based on weekly data collected on Form EIA-804.

U.S. Distillate Fuel Oll Stocks Figure 3.

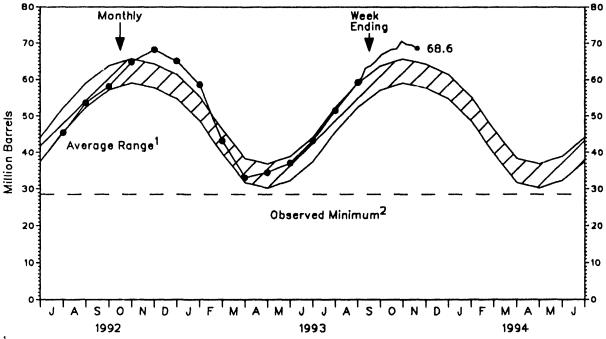


¹ Average level and width of average range are based on 3 years of monthly data: July 1990-June 1993. The seasonal pattern is based on 7 years of monthly data.

The Observed Minimum for distillate fuel oil stocks in the last 36 month period was 92.1 million barrels, occurring in April 1992.

Source: Data for Ranges and Seasonal Patterns: 1985-1992, Energy Information Administration (EIA), Petroleum Supply Annual; 1993, EIA, Petroleum Supply Monthly. • Monthly Data: 1992, EIA, Petroleum Supply Annual; 1993, Petroleum Supply Monthly. • Week-Ending Stocks: Estimates based on weekly data collected on Forms EIA-800, -801, and -802.

Figure 4. PADD I (East Coast) Distillate Fuel Oil Stocks

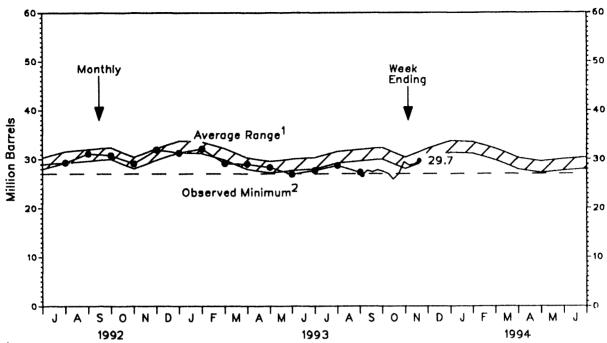


Average level and width of average range are based on 3 years of monthly data: July 1990-June 1993. The seasonal pattern is based on 7 years of monthly data.

The Observed Minimum for distillate fuel oil stocks in the last 36 month period was 28.5 million barrels, occurring in April 1992.

Source: Data for Ranges and Seasonal Patterns: 1985-1992, Energy Information Administration (EIA), Petroleum Supply Annual; 1993, EIA, Petroleum Supply Monthly. • Monthly Data: 1992, EIA, Petroleum Supply Annual; 1993, Petroleum Supply Monthly. • Week-Ending Stocks: Estimates based on weekly data collected on Forms EIA-800, -801, and -802.

Figure 5. PADD II (Midwest) Distillate Fuel Oil Stocks

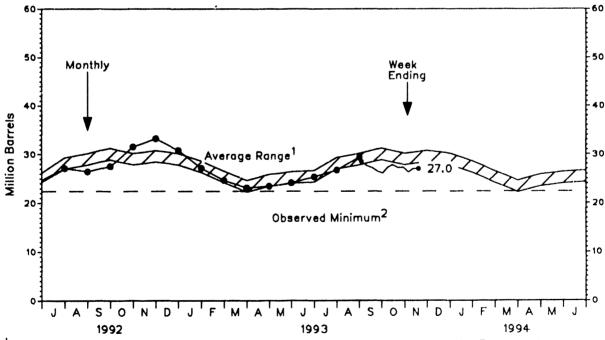


¹ Average level and width of average range are based on 3 years of monthly data: July 1990-June 1993. The seasonal pattern is based on 7 years of monthly data.

² The Observed Minimum for distillate fuel oil stocks in the last 36 month period was 26.9 million barrels, occurring in May 1993.

Source: • Data for Ranges and Seasonal Patterns: 1985-1992, Energy Information Administration (EIA), Petroleum Supply Annual: 1993, EIA, Petroleum Supply Monthly. • Monthly Data: 1992, EIA, Petroleum Supply Annual; 1993, Petroleum Supply Monthly. • Week-Ending Stocks: Estimates based on weekly data collected on Forms EIA-800, -801, and -802.

Figure 6. PADD III (Guif Coast) Distillate Fuel Oil Stocks

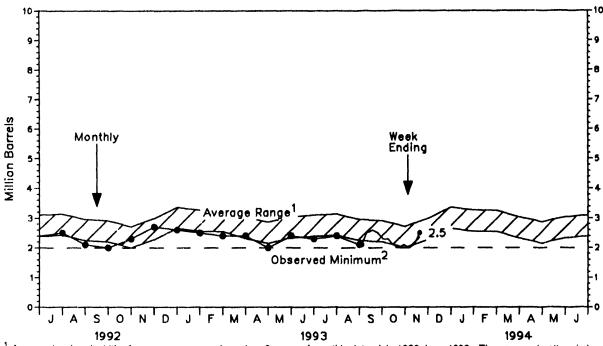


¹ Average level and width of average range are based on 3 years of monthly data: July 1990-June 1993. The seasonal pattern is based on 7 years of monthly data.

Source: • Data for Ranges and Seasonal Patterns: 1985-1992, Energy Information Administration (EIA), Petroleum Supply Annual, 1993, EIA, Petroleum Supply Monthly. • Week-Ending Stocks Estimates based on weekly data collected on Forms EIA-800, -801, and -802.

The Observed Minimum for distillate fuel oil stocks in the last 36 month period was 22.5 million barrels, occurring in February 1992

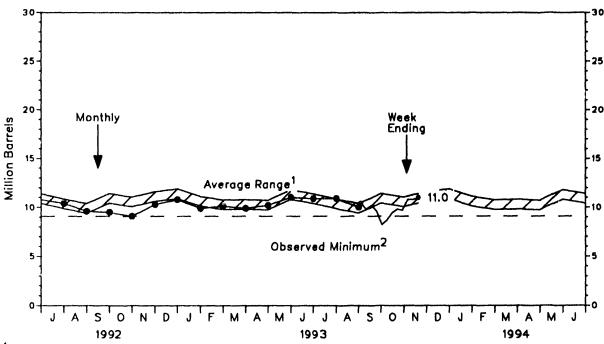
Figure 7. PADD IV (Rocky Mountain) Distillate Fuel Oil Stocks



Average level and width of average range are based on 3 years of monthly data: July 1990-June 1993. The seasonal pattern is based on 7 years of monthly data.

² The Observed Minimum for distillate fuel oil stocks in the last 36 month period was 2.0 million barrels, occurring in September 1992.

Figure 8. PADD V (West Coast) Distillate Fuel Oil Stocks



¹ Average level and width of average range are based on 3 years of monthly data; July 1990-June 1993. The seasonal pattern is based on 7 years of monthly data.

The Observed Minimum for distillate fuel oil stocks in the last 36 month period was 9.1 million barrels, occurring in October 1992.

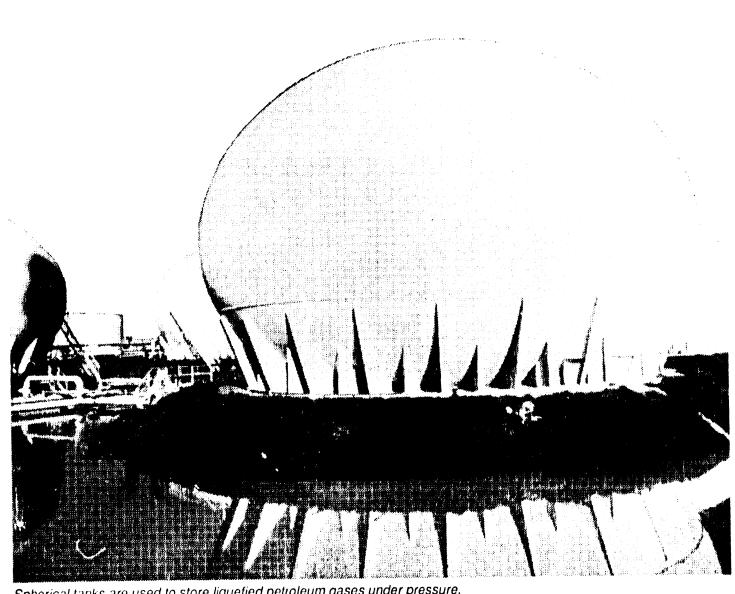
The Observed Minimum for distillate fuel oil stocks in the last 36 month period was 9.1 million barrels, occurring in October 1992.

The Observed Minimum for distillate fuel oil stocks in the last 36 month period was 9.1 million barrels, occurring in October 1992.

Source: Data for Ranges and Seasonal Patterns: 1985-1992, Energy Information Administration (EIA), Petroleum Supply Annual; 1993, EIA, Petroleum Supply Monthly. • Monthly Data: 1992, ElA, Petroleum Supply Annual; 1993, Petroleum Supply Monthly. • Week-Ending Stocks: Estimates based on weekly data collected on Forms EIA-800, -801, and -802.

Source: • Data for Ranges and Seasonal Patterns: 1985-1992, Energy Information Administration (EIA), Petroleum Supply Annual; 1993, EIA, Petroleum Supply Monthly. • Monthly Data: 1992, EIA, Petroleum Supply Annual; 1993, Petroleum Supply Monthly. • Week-Ending Stocks: Estimates based on weekly data collected on Forms EIA-800, -801, and -802.

Propane



Spherical tanks are used to store liquefied petroleum gases under pressure.

Table 2. Monthly and Weekly Net Production, Imports, and Stocks of Propane/Propylene by Petroleum Administration for Defense Districts (PADD) i, ii, and iii

(Thousand Barrels per Day, Except Where Noted)

District/Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Total U.S. Net Production *		i	i i			i	i i		t	i .	i .	4 .
1991	920	923	912	900	922	906	901	891	905	902	930	964
1992	949	955	940	961	977	978	964	946	931	933	964	977
1993	965	959	971	973	942	958	956	945	•			•
Imports												
1991	105	90	56	101	90	81	91	73	92	146	82	86
1992	90	86	68	80	72	66	68	85	71	104	99	131
1993	72	78	85	112	96	75	105	116				
Stocks (Million Barre	els)											
1991	35.0	30.1	29.8	35.2	41.8	48.5	51.0	52.3	51.6	52.7	51.6	47.6
1992	38.9	33.1	32.6	36.2	44.1	50.3	55.7	59.3	60.8	58.1	50.8	38.9
1993	33.5	26.2	21.8	28.8	36.9	44.9	52.1	57.8	E 64.7			
Week Ending												
1993	10/08	10/15	10/22	10/29	11/05	11/12	11/19					
	^E 85.1	€ 66.0	€ 65.8	^E 64.9	^E 63.4	€ 60.1	€ 58.2					
Net Production ⁴ 1991 1992 1993 Week Ending 1993	55 60 57 10/08 E 56	54 60 55 10/15 E 60	56 60 53 10/22 E 67	47 56 53 10/29 E 59	54 52 52 52 11/05	52 60 59 11/12 E 67	50 56 56 56	47 54 54	49 54	48 63	50 63	58 65
	- 50	60	01	OB	- 54	- 67	~ 60					
Imports					_							
1991	24	17	18	16	7	15	3	4	22	13	18	26
1992 1993	23 21	27 23	19 16	14 23	13 4	16 17	8 8	11 4	15	12	27	22
Week Ending		20	,,	20	4	• • •	·	7				
1993	10/08 ^E 37	10/15 E 8	10/22 E 11	10/29 E 9	11/05 E 74	11/12 E 10	11/19 ^E 12					
Stocks (Million Barre	eis)											
1991	4.1	3.5	3.8	4.2	4.1	4.2	3.9	3.3	3.6	4.1	4.2	4.1
1992	2.9	2.6	2.4	2.4	2.7	3.1	3.5	4.0	4.3	4.3	4.7	3.7
1993	3.2	2.0	1.6	2.1	2.5	3.8	4.3	4.2	€ 4.5			•
Week Ending												
1993	10/0 8 E 4. 6	10/15 E 4.4	10/22 E 4.5	10/29 E 4.5	11/05 E 4.6	11/12 E 4.4	11/19 E 4.3					

Table 2. Monthly and Weekly Net Production, Imports, and Stocks of Propane/Propylene by Petroleum Administration for Defense Districts (PADD) I, II, and III (Continued)

(Thousand Barrels per Day Except Where Noted)

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1X)	•					d å	i	•			
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	ŏ	ŏ	ŏ	ő
ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ				
10/08 E ₀	10/15 E ₀	10/22 E 0	10/29 E 0	11/05 E ₀	11/12 E 0	11/19 E ₀					
•	•	J	•	→	•	-					
								,			
16	11	13	13	1	13	1	1	13	8	8	14
12	18	7	7	7	7	5	8	8	1	13	9
10	11	5	14	2	15	2	2				
10/08	10/15	10/22	10/29	11/05	11/12	11/19					
E 1	E 2	E 2	E 2	E 65	E 2	E 2					
18)											
	0.3	0.3	0.6	0.9	0.4	Ŋσ	0.1	0.4	0.4	0.4	0.5
0. 5 0.3		0.3						0.4 0.5	0.4		0.5
0.3 0.5			0.3 0.4	0.3 0.2	0.3 0.7	0.3 0.5	0.5 0.2		0 .3	0.5	U.3
C.U	Ų.J	U. 1	U. 4	∪. ∠	J. 1	U .0	∪.∠	U.U			
	4814-	444-	4.4.	4410-	44100	4414					
-0.7	~0.6	~ 0.5	- 0.4	-0.7	- 0.6	- 0.5					
			***************************************			Transmitting				-	
D 1Y)											
42	42	43	36	43	45	42	38	39	39	40	47
48	49	49	45	45	49	45	42	43	51	51	52
46	42	40	41	42	47	45	42				
10/08	10/15	10/22	10/29	11/05	11/12	11/19					
E 48	E 53	E 60	E 52	E 46	E 60	€ 58					
£	•	E	2	•	•	•	2	2	E	~	7
									10		7 9
8 11			7 4	6 3		3 2	3	4	10	10	9
1.1	16	1.1	4	J	4	4	4				
4.00	44.65	44.00	<u></u>								
	10/15 E 7	10/22 E o	10/29 E 7	11/05 E.D.	11/12 E a	11/13 E 10					
-4	-1	- 9	-/	- y	- 6	- 10					
ils)											
1.7	1.4	1.2	1.3	1.6	1.9	1.8	1.8	2.0	2.0	1.8	1.6
1.1	0.9	0.9	0.8	1.2	1.5	1.9	2.0	2.1	2.2	2.1	1.5
1.2	0.6	0.6	0.6	1.1	1.8	2.2	2.2	E 2.2	-· -	٠.,	
-			-				-	-			
10/08	10/15	10/22	10/29	11/05	11/12	11/19					
1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10/08 10/15 10/22 10/29 11/05 11/12 11/19

Table 2. Monthly and Weekly Net Production, imports, and Stocks of Propane/Propylene by Petroleum Administration for Defense Districts (PADD) I, II, and III (Continued)

(Thousand Barrels per Day Except Where Noted)

District/Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Lower Atlantic (PADD Net Production ⁸	1 Z)	d		The Control of the Management of the Control of the	ere company country to charge	Andrew Consumer Consumer	ramilia e e rem ra proprimi e e e e e e e e e e e e e e e e e e	and a second second second second second		•		
1991	12	11	13	12	12	7	8	10	10	10	10	11
1992	12	11	11	11	7	11	11	11	11	12	13	13
1993	12	13	14	12	9	12	11	12				
Week Ending												
1993	10/08 E 8	10/15 E 7	10/22 E 7	10/29 E 7	11/05 E7	11/12 E7	11/19 E ₄					
Imports												
1991	3	0	0	0	4	0	0	0	7	0	4	5
1992	3	0	3	0	0	6	0	0	3	0	4	3
1993	0	0	0	5	0	0	5	0				
Week Ending												
1993	10/08 E 32	10/15 E ₀	10/22 E ₀	10/29 E _O	11/05 ^E 0	11/12 E ₀	11/19 E ₀					
Stocks (Million Barrels	1)											
1991	1.9	1.8	2.3	2.3	2.3	1.9	1.8	1.4	1.2	1.7	2.0	2.0
1992	1.4	1.1	1.2	1.2	1.1	1.3	1.2	1.5	1.7	1.9	2.1	1.6
1993	1.5	1.0	0.9	1.1	1.3	1.4	1.6	1.7	E 1.7			
Week Ending												
1993	10/08	10/15	10/22	10/29	11/05	11/12	11/19					
	E 1.8	E 1.8	Ē 1.8	E 1.8	E 1.7	E 1.7	E 1.7					
Midwest (PADD II)						· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		······································		arranto agrapado de la composición del composición de la composici
Net Production *												
1991	217	229	219	214	215	208	214	211	210	213	217	231
1992	231	234	216	210	214	223	214	223	216	212	227	222
1993	228	212	222	225	209	217	207	212				
Week Ending												
1993	10/08	10/15	10/22	10/29	11/05	11/12	11/19					
	E 215	E 212	E 208	E 207	E 211	E 219	E 234					
Imports												
1991	63	59	33	40	44	41	34	47	49	52	45	53
1992	59	55	47	43	42	40	32	45	43	60	61	74
1993	44	43	47	41	41	29	45	48				
Week Ending												
1993	10/08	10/15	10/22	10/29	11/05	11/12	11/19					
	E 28	E 40	E 47	E 82	E 65	E 46	^E 65					
Stocks (Million Barrels)											
1991	12.9	11.1	11.7	13.8	17.1	20.2	21.8	23.3	22.9	22.6	20.3	17.7
1992	14.3	12.9	13.4	15.4	18.4	20.9	23.4	24.5	24.6	21.6	16.3	11.6
1993	10.7	7.7	7.4	9.9	12.7	15.5	18.4	20.9	E 23.4			
Week Ending												
	10/08 E 23.5	10/15 E 23.7	10/22 ^E 23.6	10/29 E 22.8	11/05 E 21.2	11/12 E 20.2	11/19 ^E 19.5					

Table 2. Monthly and Weekly Net Production, Imports, and Stocks of Propane/Propylene by Petroleum Administration for Defense Districts (PADD) I, II, and III (Continued)

(Thousand Barrels per Day Except Where Noted)

District/Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Gulf Coast (PADD III) Net Production *					L	· Barana and a second	nder manner in the second	Committee of the control of			ι.	
1991	545	544	535	539	549	543	539	533	553	540	562	575
1992	560	559	563	584	602	590	587	569	559	558	569	586
1993	577	590	590	593	583	585	595	581				
Week Ending												
1993	10/08 E 539	10/15 E 565	10/22 E 602	10/ 29 E 625	11/05 E 540	11/12 E 561	11/19 E 563					
Imports												
1991	7	7	0	41	36	22	51	16	15	73	8 7	0
1992	0	0	0	20	14	7	26	28	10	23	7	29
1993	0	7	19	45	48	27	50	61				
Week Ending												
1993	10/08 E ₄₄	10/15 E 83	10/22 E 5	10/29 E 5	11/05 ^E 81	11/12 E ₈₄	11/19 ^E 78					
Stocks (Million Barrels	3)											
1991	17.2	14.8	13.6	16.5	19.7	22.9	23.9	23.9	22.9	23.6	24.7	23.9
1992	20.5	16.5	15.7	17.4	21.6	24.7	27.0	28.7	29.8	29.9	27.8	22.1
1993	18.8	15.9	12.2	16.2	20.7	24.3	28.0	31.0	E 35.2			
Week Ending												
1993	10/08 E 35.4	10/15 E 36.3	10/22 E 36.1	10/29 E 36.0	11/05 E 38.0	11/12 E 34.0	11/19 E 33.0					

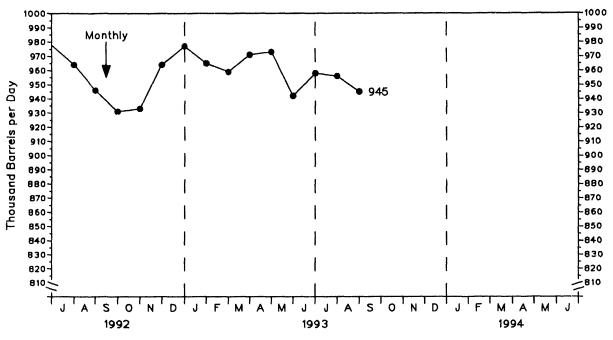
E=Estimated data

^a Net production equals gross production minus input. Negative production will occur when the amount of product produced during the month is less than the amount of that same product reprocessed (input) or reclassified to become another product during the same month.

Note: • This table presents weekly data, derived from a cut-off sample of refineries and fractionators that produce propane and from companies that import or store propane, which have been extrapolated to the universe of companies reporting in PADD's I, II, and III. • Totals may not equal sum of components due to independent rounding.

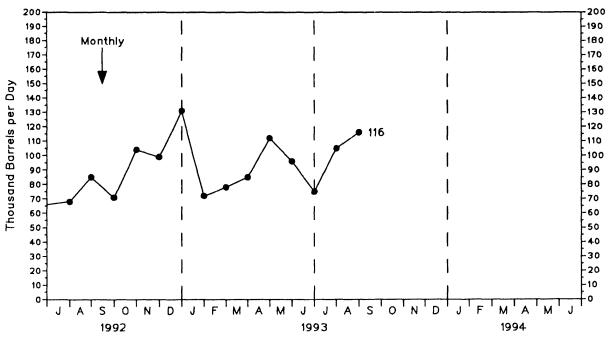
Source Energy Information Administration (EIA), Monthly Petroleum Supply Reporting System and data collected on Form EIA-807, "Propane Telephone Survey." Magnitudes of revisions to monthly data are published in Appendix C of the *Petroleum Supply Monthly.*

Figure 9. U.S. Propane Production



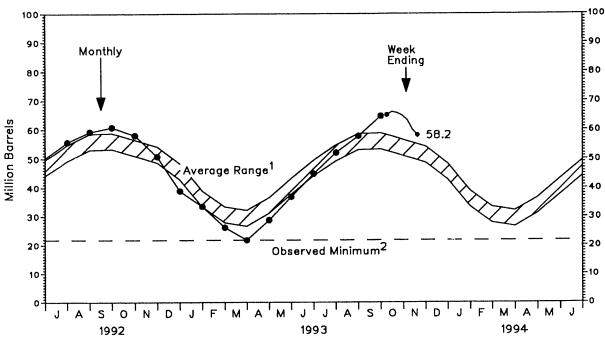
Source: 1992, EIA, Petroleum Supply Annual; 1993, EIA, Petroleum Supply Monthly.

Figure 10. U.S. Propane Imports



Source: 1992, EIA, Petroleum Supply Annual; 1993, EIA, Petroleum Supply Monthly.

Figure 11. U.S. Propane Stocks

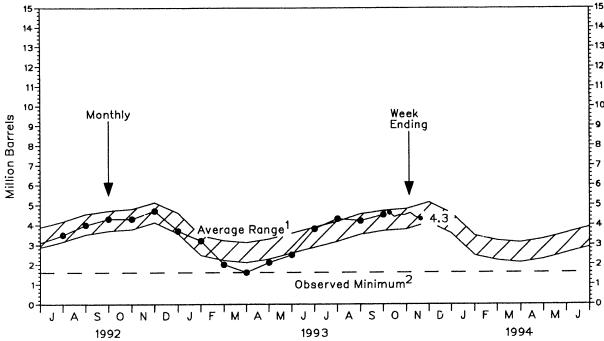


¹ Average level and width of average range are based on 3 years of monthly data: July 1990-June 1993. The seasonal pattern is based on 7 years of monthly data.

The Observed Minimum for propane stocks in the last 36 month period was 21.8 million barrels, occurring in March 1993.

Source: Data for Ranges and Seasonal Patterns: 1985-1992, Energy Information Administration (EIA), Petroleum Supply Annual; 1993, EIA, Petroleum Supply Monthly. • Monthly Data: 1992, EIA, Petroleum Supply Annual; 1993, EIA, Petroleum Supply Monthly. • Week-Ending Stocks: Estimates based on data from Table H1.

Figure 12. PADD I (East Coast) Propane Stocks



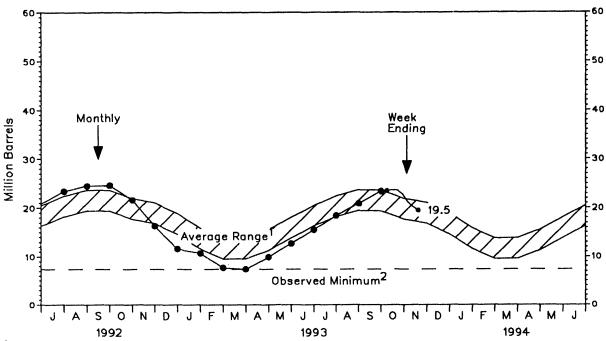
¹ Average level and width of average range are based on 3 years of monthly data: July 1990-June 1993. The seasonal pattern is based on 7 years of monthly data.

The Observed Minimum for propane stocks in the last 36 month period was 1.6 million barrels, occurring in March 1993.

Potrology

Source: • Data for Ranges and Seasonal Patterns: 1985-1992, Energy Information Administration (EIA), Petroleum Supply Annual; 1993, EIA, Petroleum Supply Monthly. • Monthly Data: 1992, EIA, Petroleum Supply Annual; 1993, EIA, Petroleum Supply Monthly. • Week-Ending Stocks Estimates based on data collected on Form EIA-807, "Propane Telephone Survey."

Figure 13. PADD II (Midwest) Propane Stocks

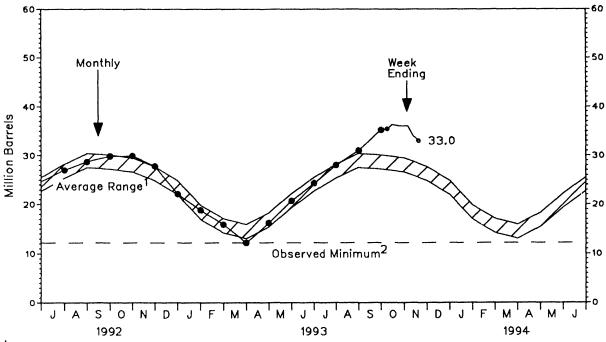


¹ Average level and width of average range are based on 3 years of monthly data: July 1990-June 1993. The seasonal pattern is based on 7 years of monthly data.

² The Observed Minimum for propane stocks in the last 36 month period was 7.4 million barrels, occurring in March 1993.

Source: • Data for Ranges and Seasonal Patterns: 1985-1992, Energy Information Administration (EIA), Petroleum Supply Annual; 1993, EIA, Petroleum Supply Monthly. • Monthly Data: 1992, EIA, Petroleum Supply Annual; 1993, EIA, Petroleum Supply Monthly. • Week-Ending Stocks: Estimates based on data collected on Form EIA-807, "Propane Telephone Survey."

Figure 14. PADD III (Gulf Coast) Propane Stocks

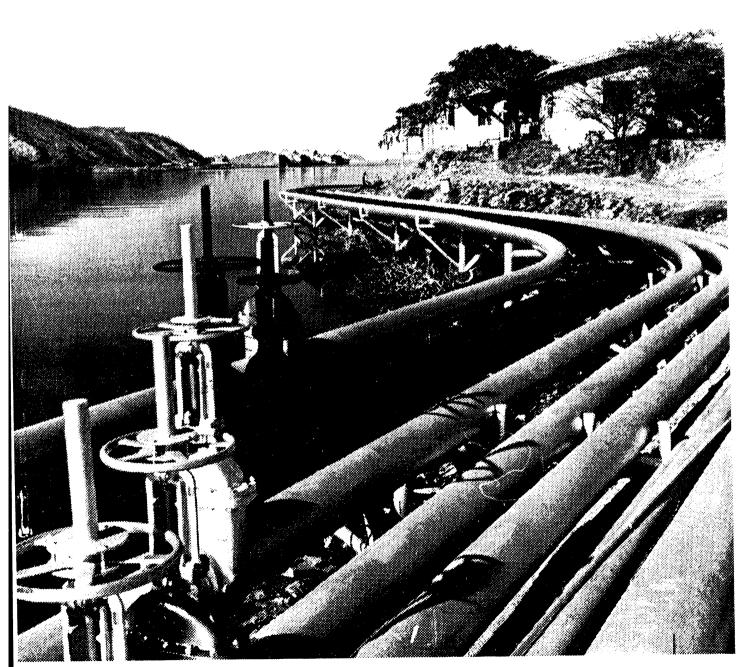


¹ Average level and width of average range are based on 3 years of monthly data: July 1990-June 1993. The seasonal pattern is based on 7 years of monthly data.

² The Observed Minimum for propane stocks in the last 36 month period was 12.2 million barrels, occurring in March 1993.

Source: • Data for Ranges and Seasonal Patterns: 1985-1992, Energy Information Administration (EIA), Petroleum Supply Annual; 1993, EIA, Petroleum Supply Monthly. • Monthly Data: 1992, EIA, Petroleum Supply Annual; 1993, EIA, Petroleum Supply Monthly. • Week-Ending Stocks: Estimates based on data collected on Form EIA-807, "Propane Telephone Survey."

Natural Gas



Pipelines carry natural gas across geographic regions.

Table 3. Supply and Disposition of Dry Natural Gas in the United States (Billion Cubic Feet)

Year and Month			Supply			Disposition			
	Total Dry Gas Production	Withdrawals from Storage ⁶	Supplemental Gaseous Fuels	Imports	Balancing Item ^b	Total Supply/ Disposition [©]	Additions to Storage ⁸	Exports	Consumption ^d
1987 Total	16.621	1.905	101	993	-444	19.176	1,911	54	17,211
1988 Total		2,270	101	1.294	-453	20.315	2.211	74	18,030
1989 Total		2,854	107	1,382	-218	21,435	2,528	107	18,801
1990 Total		1,986	123	1,532	-149	21,302	2,499	86	18,716
1991									
January	1,610	R 682	12	163	R -44	R 2,423	R 115	10	2,299
February		₹ 409	10	138	R 62	R 2.035	R 112	11	1.912
March		# 297	11	151	R -15	R 1,979	R 129	10	1.840
April		R 104	9	144	M 65	R 1.785	234	9	1.542
May		# 58	9	141	R 13	R 1,675	R 331	8	1,337
June		R 42	R 8	133	R -37	R 1,531	₹ 326	7	1,199
July		R 75	9	135	# -28	₹ 1.590	R 299	8	1,283
August		₹ 82	9	127	R _48	R 1.574	# 290	10	1,274
September		R 78	8	134	M -72	R 1.545	# 304	11	1,231
October		₹ 103	R 10	157	# -88	R 1,691	R 258	14	1,419
November		* 360	9	169	[™] -209	R 1.856	R 150	15	1,691
December		₹ 461	11	181	R -98	R 2,151	R 125	18	2,009
Total	17,698	2,752	113	1,773	-500	21,836	2,672	129	19,035
1992									
January	1,586	624	12	165	-71	2.315	60	16	2.239
February		463	11	175	42	2.089	45	14	2.031
March		397	11	180	-42	2,022	74	23	1,926
April		142	10	176	89	1,864	161	18	1,685
May		44	9	174	68	1,780	344	19	1,418
June .		35	8	162	16	1,666	384	18	1.264
July		42	8	167	-8	1,700	373	16	1,311
August		46	8	175	-19	1,662	380	18	1,264
September		40	8	166	-24	1,629	362	18	1,249
October		70	10	176	-130	1,659	271	19	
November		282	11	210	-239	1,778	88	19	1,368
December		587	12	209	-191	2,195	58	19	1,672 2,119
Total .	17,840	2,772	118	2,138	-508	22,360	2,599	216	19,544
1993									
January	. R 1,606	605	13	198	R -58	# 2.364	50	18	R 2.297
February	-	578	12	183	R 17	R 2,214	27	13	R 2,174
March		381	12	199	R 78	# 2,214	27 78	13	R 2 140
April		111	10	185	™ 78 ₩ 79	# 1,904	78 219	12	R 1,673
May		25	8	160	R 28	* 1,904 * 1,751	447	12	* 1,673 * 1,291
June		43	10	178	28 -8	1,706			
		43	9		-8 M -1	, .	416	11	1,280
•			ŧ 9	190		R 1,758	398	14	R 1,346
August September		98 25	£ 9	E 184 E 188	^R 27 18	N 1,772 1,699	419 378	R 11 E 11	R 1,342 E 1,311
		4 000	02	1.470	400	45 700	0.050		
1993 YTD		1,889	83	1,478	162	15,702	2.052	107	13,543
1992 YTD		1,793	77	1,375	76	15.099	1,821	142	13.136
1991 YTD	11,665	1,750	76	1,133	-32	14,593	1,836	71	12,686

^a Monthly and annual data for 1987 through 1992 include underground storage and liquefied natural gas storage. Data for January 1993 forward include underground storage only. See Appendix A, Explanatory Note 7 of the *Natural Gas Monthly* (NGM) for discussion of computation procedures.

Notes: Data for 1987 through 1992 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 States and the District of Columbia. Totals may not equal sum of components due to independent rounding.

Sources: • Total Dry Gas Production: EIA, NGA 1992, 1987 through 1992; IOGCC, MMS reporting, and EIA estimates, January 1993 through current month. See Appendix A, Explanatory Note 3 of the NGM for estimation procedures and revision policy. • Withdrawals from and Additions to Storage: EIA, NGA 1992, 1987 through 1992; for EIA-191, January 1993 through current month. • Supplemental Gaseous Fuels: EIA, NGA 1992, 1987 through 1992; and EIA computations, January 1993 through current month. See Appendix A, Explanatory Note 2 of the NGM for discussion of procedures and revision policy. • Imports and Exports: Form FPC-14, 1987 through 1992; and estimates, January 1993 through the current month. See Appendix A, Explanatory Note 4 of the NGM for discussion of procedures and revision policy. • Consumption and Balancing Item: EIA, NGA 1992, 1987 through 1992; and EIA computations, January 1993 through current month. See Appendix A, Explanatory Notes 5 and 10 of the NGM for discussion of computation procedures and revision policy.

⁵ Represents quantities lost and imbalances in data due to differences among data sources. See Appendix A, Explanatory Note 10 of the *NGM* for full discussion.

^c Total data for 1987 through 1992 do not equal equivalent data in Table 1 of the *Natural Gas Annual* (NGA) 1992 due to the exclusion of intransit receipts and deliveries in the *NGM*.

d Consists of pipeline fuel use, lease and plant fuel use, and deliveries to consuming sectors as shown in Table 3 of the NGM.

E = Estimated data.

R = Revised data.

Table 4. Underground Natural Gas Storage in the United States (All Operators)
(Billion Cubic Feet)

	1	Ur	Natural Gas In Iderground Stor at End of Perio	ag•	from Sa	Working Gas me Period us Year	Storage Activity			
1988 Total*				Total ^b	Volume	Percent	injections	Withdrawals	Net ^c	
988 Total*	987 Total®	3.792	2,756	6.548	7	03	1.887	1 881	6	
989 Total*			2.850	6.650	94	3 4	2 174	2 244	-69	
990 Total* 3,868 3,068 6,936 555 22 1 2433 1934 991 January 3,911 2,362 6,273 92 41 115 660 February 3,908 2,063 5,972 59 30 112 397 March 3,895 1,912 5,806 37 20 129 291 May 3,831 2,273 6,204 93 43 319 58 June 3,939 2,553 6,492 68 27 314 42 July 3,942 2,771 6,713 -20 -7 200 75 August 3,949 2,978 6,927 -93 -30 282 82 September 3,950 3,201 7,151 -120 -36 294 78 October 3,961 3,309 7,330 -98 -28 251 103 November 3,952 3,148 7,100 -324 -93 150 352 December 3,954 2,824 6,778 2,44 -80 125 448 Total					-337	-118	2 491		-313	
January 3,911 2,362 6,273 92 41 115 8,660									499	
January 3,911 2,382 6,273 92 4,1 115 8,660 February 3,908 2,083 5,972 5,99 3,0 112 397 397 397 398 3,985 1,912 5,806 37 2,0 129 291 397 397 391 3,783 3,981 2,273 6,204 93 4,7 2,28 104 3,991 2,273 6,204 93 4,7 2,28 104 3,914 2,273 6,204 93 4,7 2,28 104 4,2 3,914 2,273 6,402 68 2,7 314 4,2 3,917 3,942 2,771 6,713 -20 -7 7 7,200 7,5 4,008 3,994 2,978 6,927 -93 -3.0 2,82 8,2	991									
February 3 908 2,063 5 972 59 3 0 112 397 March 3,895 1,912 5,806 37 2 0 1.29 291 April 3,898 2,037 5,935 91 47 228 104 May 3,931 2,273 6,204 93 43 319 58 June 3,939 2,553 6,492 68 27 314 42 July 3,942 2,771 6,713 -20 -7 7,290 75 August 3,949 2,978 6,927 -93 -3 0 282 82 September 3,950 3,201 7,151 -120 -3 6 294 -78 October 3,961 3,369 7,300 -98 -28 251 103 November 3,952 3,148 7,100 -124 -93 150 352 Pecember 3,954		2 9 1 1	2 362	8 272	92	4 1	115	R 660	- 545	
March 3,895 1,912 5,808 37 2 0 1,29 291 April 3,895 1,912 5,808 37 2 0 1,29 291 April 3,898 2,037 5,935 91 4 7 228 104 May 3,939 2,553 6,492 68 2 7 314 42 July 3,942 2,771 6,713 20 - 7 7,290 7,5 August 3,949 2,978 6,927 -93 -30 282 82 September 3,950 3,201 7,151 -120 -36 294 79 October 3,961 3,369 7,330 -98 -28 251 103 November 3,952 3,148 7,100 -124 -93 150 352 December 3,952 3,148 7,100 -124 -93 150 352 January 4,061 2,216	- · · · · · · · · · · · · · · · · · · ·								- 285	
April 3898 2,037 5,935 91 4,7 228 104 May 3,931 2,273 6,204 93 4,3 319 58 June 3,939 2,553 6,492 68 2,7 314 42 July 3,942 2,771 6,713 -20 -7 7,200 75 August 3,949 2,978 6,927 -93 -30 2082 82 September 3,950 3,201 7,151 -120 -3 6,294 78 October 3,951 3,369 7,330 -98 -2,8 251 103 November 3,952 3,148 7,100 -24 -93 150 352 December 3,954 2,824 6,778 -244 -8.0 125 448 Total 26.08 2.089 992 292 4			-,	-,					-162	
May 3.931 2.273 6.204 93 4.3 319 58 June 3.939 2.553 6.492 68 2.7 314 42 July 3.942 2.771 6.713 -20 -7 "200 75 August 3.949 2.978 6.927 -93 -3.0 282 82 September 3.950 3.201 7.151 -120 -3.6 294 .78 October 3.981 3.369 7.330 -98 -2.8 251 103 November 3.952 3.148 7.100 -324 -9.3 150 352 December 3.954 2.824 6.778 -244 -8.0 125 448 Total 26.08 2.689 1992 2 <									124	
June 3,939 2,553 6,492 68 2,7 314 42 July 3,942 2,771 6,713 -20 -7 8,200 75 August 3,949 2,978 6,927 -93 -30 282 82 September 3,950 3,201 7,151 -120 -3,6 294 78 October 3,961 3,369 7,330 -98 -2,8 251 103 November 3,952 3,148 7,100 -324 -93 150 352 December 3,954 2,824 6,778 -244 -80 125 448 Total			-,		•			. • •		
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September 3,950 3,201 7,151 -120 -3 6 294 78 October 3,961 3,369 7,330 -98 -28 251 103 352 November 3,952 3,148 7,100 -324 -9 3 150 352 December 3,954 2,824 6,778 -244 -8 0 125 448 Total	•								214	
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December 3.954 2.824 6.778 -244 -8 0 125 448 Total -244 -8 0 125 448 Total -244 -8 0 125 448 Total 2 608 2689 1992 2 608 2 689 591 February 4,061 2,218 6,277 -146 -6 2 68 591 February 4,057 1,817 5,894 -226 -10.9 52 441 March 4,046 1,545 5,591 -367 -19.2 91 381 April 4,038 1,573 5,611 -463 -228 107 150 May 4,044 1,848 5,892 -425 -18 /17 330 53 Jule									149	
Total 2 608 2 689 1992 January		-,							- 202	
1992 January	December	3,954	2,824	6,778	-244	-80	125	448	-323	
January 4,061 2,216 6,277 -146 -6 2 68 591 February 4,057 1,837 5,894 -226 -10 9 52 441 March 4,046 1,545 5,591 -367 -19 2 81 381 April 4,038 1,573 5,611 -463 -22 8 167 150 May 4,044 1,848 5,892 -425 -18 7 330 53 June 4,050 2,153 6,203 -400 -15 7 366 43 July 4,064 2,460 6,524 -311 -11 2 357 50 August 4,062 2,761 6,823 -217 -7 3 364 54 September 4,061 3,044 7,105 -157 -49 346 48 October 4,065 3,223 7,288 -146 -43 264 78 November 4,064 2	Total	••		• •			2.608	2,689	-80	
February 4,057 1,837 5,894 -226 -10.9 52 441 March 4,046 1,545 5,591 -367 -19.2 81 381 April 4,038 1,573 5,611 -463 -22.8 167 150 May 4,044 1,848 5,892 -425 -18.7 330 53 June 4,050 2,153 6,203 -400 -15.7 366 43 July 4,064 2,460 6,524 -311 -11.2 357 50 August 4,062 2,761 6,823 -217 -7.3 364 54 September 4,061 3,044 7,105 -157 -4.9 346 48 October 4,065 3,223 7,288 -146 -4.3 264 78 November 4,061 3,054 7,115 -94 -3.0 95 276 December 4,044 <td< td=""><td>1992</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	1992									
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April 4,038 1,573 5,611 -463 -228 167 150 May 4,044 1,848 5,892 -425 -187 330 53 June 4,050 2,153 6,203 -400 -157 366 43 July 4,064 2,460 6,524 -311 -112 357 50 August 4,062 2,761 6,823 -217 -7,3 364 51 September 4,061 3,044 7,105 -157 -4,9 346 48 October 4,065 3,223 7,288 -146 -4,3 264 78 November 4,061 3,054 7,115 -94 -3,0 95 276 December 4,044 2,597 6,641 -227 -8,0 65 557 Total 2,555 2,724 1993 January 4,040 2,045 6,086 -170 -7,7 50 605	February	4,057	1,837	5.894	-226	- 10 9	52	441	- 389	
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June 4 050 2,153 6,203 -400 -15 7 366 43 July 4,064 2,460 6,524 -311 -11 2 357 50 August 4 062 2,761 6,823 -217 -7 3 364 51 September 4,061 3,044 7,105 -157 -4 9 346 48 October 4,065 3,223 7,288 -146 -4 3 264 78 November 4,061 3,054 7,115 -94 -3 0 95 276 December 4,044 2,597 6,641 -227 -8 0 65 557 Total 2,555 2,724 1993 January 4,040 2,045 6,086 -170 -7.7 50 605 February 4,014 1,519 5,532 -319 -17.3 27 578 March 3,993 1,237 5,230 -308 -19.9 78 391 April 3,999 1,335 5,334 -238 -15.1 219 111 May 4,017 1,738	April	4,038	1,573	5,611	- 463	- 22 8	167	150	18	
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July 4.064 2,460 6,524 -311 -1; 2 357 50 August 4.062 2,761 6,823 -217 -73 364 54 September 4,061 3,044 7,105 -157 -49 346 48 October 4,065 3,223 7,288 -146 -43 264 78 November 4,061 3,054 7,115 -94 -30 95 276 December 4,044 2,597 6,641 -227 -80 65 557 Total 2555 2724 1993 January 4,040 2,045 6,086 -170 -77 50 605 February 4,014 1,519 5,532 -319 -173 27 578 March 3,993 1,237 5,230 -308 -199 78 381 April 3,999	-		2 153	6 203	-400	-15.7	366	43	323	
August 4 062 2 761 6.823 -217 -7 3 364 54 September 4,061 3,044 7,105 -157 -4 9 346 48 October 4,065 3,223 7,288 -146 -4 3 264 78 November 4,061 3,054 7,115 -94 -3 0 95 276 December 4,044 2,597 6,641 -227 -8 0 65 557 Total 2555 2724 1993 January 4,040 2,045 6,086 -170 -7 7 50 605 February 4,014 1,519 5,532 -319 -17 3 27 578 March 3,993 1,237 5,230 -308 -19 9 78 381 April 3,999 1,335 5,334 -238 -15 1 219 111 May 4,017 1,738 5,755 -111 -60 447 25 June 4,029 2,100 6,128 -53 -25 4,16 43									307	
September 4,061 3,044 7,105 -157 -4.9 346 48 October 4,065 3,223 7,288 -146 -4.3 264 78 November 4,061 3,054 7,115 -94 -3.0 95 276 December 4,044 2,597 6,641 -227 -8.0 65 557 Total 2.555 2,724 1993 January 4,040 2,045 6,086 -170 -7.7 50 605 February 4,014 1,519 5,532 -319 -17.3 27 578 March 3,993 1,237 5,230 -308 -19.9 78 381 April 3,999 1,335 5,334 -238 -15.1 219 111 May 4,017 1,738 5,755 -111 -60 447 25	•					· · ·			309	
October 4,065 3,223 7,288 -146 -4.3 264 78 November 4,061 3,054 7,115 -94 -3.0 95 276 December 4,044 2,597 6,641 -227 -8.0 65 557 Total 2.555 2.724 1993 January 4,040 2,045 6.086 -170 -7.7 50 605 February 4,014 1,519 5,532 -319 -17.3 27 578 March 3,993 1,237 5,230 -308 -19.9 78 381 April 3,999 1,335 5,334 -238 -15.1 219 111 May 4,017 1,738 5,755 -111 -60 447 25 June 4,029 2,100 6,128 -53 -2.5 416									298	
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December 4,044 2,597 6,641 -227 -8 0 65 557 Total 2555 2724 1993 January 4,040 2,045 6,086 -170 -7 7 50 605 605 February 4,014 1,519 5,532 -319 -17 3 27 578 78 78 78 78 78 381 78 391 393 1,237 5,230 -308 -19 9 78 381 78 391 111 401 401 1,738 5,734 -238 -15 1 219 111 May 4,017 1,738 5,755 -111 -60 447 25 June 4,029 2,100 6,128 -53 -25 416 43			-,						- 181	
1993 January 4,040 2,045 6,086 -170 -77 50 605 February 4,014 1,519 5,532 -319 -173 27 578 March 3,993 1,237 5,230 -308 -199 78 381 April 3,999 1,335 5,334 -238 -151 219 111 May 4,017 1,738 5,755 -111 -60 447 25 June 4,029 2,100 6,128 -53 -25 416 43									-491	
January 4,040 2,045 6,086 -170 -77 50 605 February 4,014 1,519 5,532 -319 -173 27 578 March 3,993 1,237 5,230 -308 -19.9 78 381 April 3,999 1,335 5,334 -238 -15.1 219 111 May 4,017 1,738 5,755 -111 -60 447 25 June 4,029 2,100 6,128 -53 -2.5 416 43	Total	, 					2.555	2.724	- 168	
February 4,014 1,519 5,532 -319 -17 3 27 578 March 3,993 1,237 5,230 -308 -19 9 78 381 April 3,999 1,335 5,334 -238 -15 1 219 111 May 4,017 1,738 5,755 -111 -6 0 447 25 June 4,029 2,100 6,128 -53 -2 5 416 43	1993									
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March 3.993 1,237 5,230 -308 -19.9 78 381 April 3.999 1,335 5,334 -238 -15.1 219 1.11 May 4.017 1,738 5,755 -11.1 -6.0 447 25 June 4.029 2,100 6,128 -53 -2.5 416 43									- 552	
April 3,999 1,335 5,334 -238 -15 1 219 111 May 4,017 1,738 5,755 -111 -6 0 447 25 June 4,029 2,100 6,128 -53 -2 5 416 43	•								- 304	
May 4.017 1.738 5.755 -111 -60 447 25 June 4.029 2.100 6.128 -53 -25 416 43							-		108	
June 4,029 2,100 6,128 -53 -2.5 416 43									423	
	-								372	
				-, -					350	
			_, _,		_	-				
August	•				,			• -	321 352	

Notes: • Data for 1987 through 1992 are final. All other data are preliminary unless otherwise noted. See Appendix A, Explanatory Note 7 of the *Natural Gas Monthly* for discussion of revision policy. • Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the period to the quantity of gas in storage at the beginning of the period. This is due to changes in the quantities of native gas included in base gas and/or losses in base gas due to migration from storage reservoirs. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Sources: Form EIA-191, Form FERC-8, and Form EIA-176.

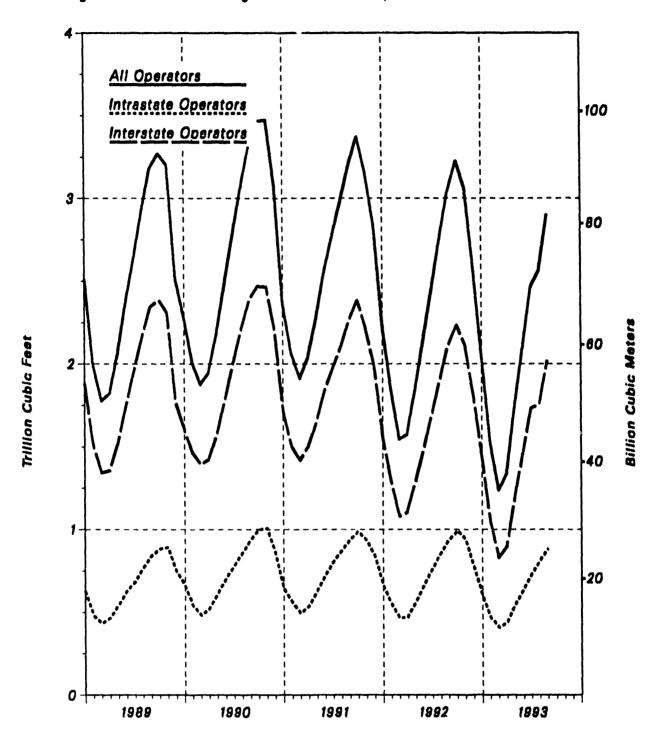
^{*} Total as of December 31.

b Total underground storage capacity at the end of each calendar year (in billion cubic feet): 1987, 1988, and 1989 - 8,124; 1990 - 8,125; 1991 - 7,993; and 1992 - 7,932.

⁶ Positive numbers indicate the volume of injections in excess of withdrawals. Negative numbers indicate the volume of withdrawals in excess of injections.

R = Revised data.

Figure 15. Underground Natural Gas Storage in the United States, 1989 - 1993



Source: Energy Information Administration (EIA), Form EIA-191/FERC-8, "Underground Natural Gas Storage Report," and Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition," *Natural Gas Annual*, and *Natural Gas Monthly*.

Table 5. Natural Gas Consumption by Petroleum Administration for Defense District (PADD) (Billion Cubic Feet)

Year and Month		New En	gland	Central Atlantic					
	Residential	Commercial	Industrial	Electric Utilities	Residential	Commercial	Industrial	Electric Utilities	
991									
January	27	14	9	2	145	76	52	15	
February	26	14	9	ō	131	69	45	12	
March	23	13	10	2	117	61	46	17	
April	17	9	11	Ā	80	46	45	23	
May	10	ě	12	À	44	28	40	33	
June	6	Ä	11	5	26	22	37	35	
July	5	À	. 8	8	23	22	36	44	
August	Ă	Ä	ÿ	9	21	20	37	44	
September	5	Ä	9	5	24	21	38	27	
October	š	5	11	5	43	29	44	22	
November	14	ě	ii	2	78	44	46	19	
December	21	12	11	ő	118	66	48	16	
Total	166	97	122	47	850	504	514	306	
992									
January	29	15	12	0	150	77	56	11	
February	30	16	14	ő	148	77	57	15	
March	27	15	13	ĭ	129	70	57	22	
April	21	12	16	Å	98	55	53	24	
May	13	8	14	4	55	32	73 48		
June	7	5	13	6	31	22		24	
July	5	5	12	8	25	21	46	30	
August	5	5	13	5	23		47	42	
September	5	5	13	5 5		21	47	31	
October	9	3 7	13	4	25 50	22 32	48	28	
November	16	10	14	4			52	16	
December	24	13	14	Ö	82 128	∌6 69	58 59	14 13	
Total	192	114	163	42	944	5.16	627	271	
993									
January	30	16	14	0	148	75	62	12	
February	32	17	14	ō	159	80	61	13	
March	29	16	14	3	151	77	64	16	
April	20	11	13	4	93	51	56	16	
May	11	6	13	3	45	29	50	14	
June	7	5	13	3	32	24	50	26	
July	5	4	12	5	23	22	47	42	
August	5	Ä	13	5	22	21	48	33	

Table 5. Natural Gas Consumption by Petroleum Administration for Defense District (PADD) (Continued)
(Billion Cubic Feet)

		Lower A	tlantic		PAD District I				
Year and Month	Residential	Commercial	Industrial	Electric Utilities	Residential	Commercial	industrial	Electric Utilities	
1991									
January	46	28	47	15	218	119	109	32	
February	40	26	42	14	197	109	96	26	
March	33	23	45	16	173	97	101	35	
April	18	16	43	17	115	71	99	44	
May	10	12	43	20	64	46	95	57	
June	8	11	41	21	40	37	89	61	
July	7	10	41	26	35	36	85	78	
August	7	11	43	26	32	35	89	79	
September	7	11	4.3	21	36	36	90	53	
October	12	13	4.5	19	63	47	100	46	
November	29	19	44	15	120	71	101	36	
December	39	25	4.4	14	178	103	103	10	
Total	254	206	522	225	1.270	807	1 158	578	
1992									
January	50	31	47	14	229	123	115	25	
February	45	29	46	15	223	122	117	30	
March	34	24	51	19	190	109	121	42	
April	25	20	47	20	144	87	116	48	
May	14	14	46	21	8.2	54	108	49	
June	9	12	44	23	47	39	103	59	
July	ž	11	46	26	37	37	105	76	
August	7	11	45	22	35	37	105	58	
September	7	11	45	22	37	38	106	5.5	
October	14	14	44	13	73	53	109	33	
November	28	19	47	13	126	75	119	31	
December	41	29	47	11	196	111	120	24	
Total	295	224	555	220	1.421	884	1 345	533	
1993									
January	48	30	51	13	226	121	127	25	
February	50	31	50	14	241	128	125	27	
March	46	30	52	14	226	123	130	3 3	
April	28	20	49	14	141	82	118	34	
May	12	13	45	17	68	47	108	34	
June	8	11	49	21	47	40	112	50	
July	ž	1.1	51	25	35	37	110	72	
August	7	11	54	24	34	36	115	62	

Table 5. Natural Gas Consumption by Petroleum Administration for Defense District (PADD) (Continued) (Billion Cubic Feet)

		PAD DIS	trict II		\$	PAD	District III	
Year and Month	Residential	Commercial	Industrial	Electric Utilities	Residential	Commercial	industrial	Electric Utilities
1991								
January	385	189	203	16	84	45	262	87
February	292	152	178	13	64	36	230	6.8
March	245	125	173	16	48	30	241	95
April	147	76	152	20	29	24	244	112
May	87	49	142	27	18	18	252	1.12
June	49	32	1.34	29	15	17	241	1.10
July	43	37	136	39	14	18	265	164
August	40	35	140	36	13	16	269	153
September	55	37	142	26	14	14	257	118
October	102	57	156	22	18	17	273	127
November	224	110	172	13	41	28	268	9.5
December	295	147	185	18	60	36	290	a i
Total	1 964	1 047	1,913	279	419	299	1 041	1 142
1992								
January	139	165	196	16	76	42	279	81
February	289	147	187	16	68	37	240	7.7
March	251	123	186	20	44	29	275	36
April	184	97	172	20	31	2.5	267	11) 1
May	102	53	153	20	20	20	260	115
June	61	35	142	20	16	17	245	1.39
July	47	34	139	25	15	20	259	168
August	46	34	139	22	14	19	249	134
September	5.3	35	144	21	1.4	1.7	. 15	* 10
October	111	61	164	13	16	18	248	103
November	206	108	181	13	34	27	214	ii)
December	316	160	195	15	67	39	263	9.4
Total	2 003	1 052	1.998	220	417	310	10/1	1 3 10
1993								
January	368	180	203	14	77	44	273	11
February	334	166	200	14	67	39	248	* 1
March	311	155	200	15	59	35	270	95
April	196	100	171	14	39	29	258	g ?
May	92	49	154	14	2.2	22	237	94
June	62	35	147	20	16	2.2	250	146
July	45	33	138	34	14	22	271	199
August	41	32	147	40	13	21	260	197

See footnotes at end of table.

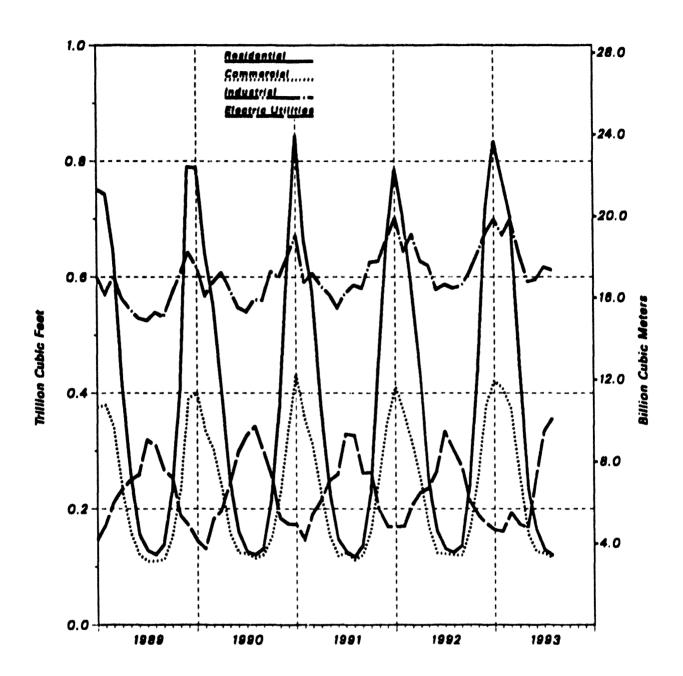
Table 5. Natural Gas Consumption by Petroleum Administration for Defense District (PADD) (Continued) (Billion Cubic Feet)

		PAD Dist	rict IV		auto somethy on the	PAD	District V	
Year and Month	Residential	Commercial	Industrial	Electric Utilities	Residential	Commercial	Industrial	Electric Utilities
991								
January	49	29	23		108	51	76	36
February	38	23	20	1	72	39	66	38
March	30	18	21	1	77	40	71	46
April	22	13	19	1	60	41	73	38
May	16	10	18	1	44	31	65	32
June	ý	6	17	1	35	28	65	29
July	6	Ä	17	2	29	29	69	44
August	6	Á	17	2	26	23	71	53
September	6	5	19	ī	27	29	74	64
October	11	7	21	2	31	34	75	68
November	25	15	23	2	50	31	64	47
December	19	22	25	2	86	43	71	42
Total	257	157	240	15	646	419	839	536
1992								
January	41	24	25	1	100	56	87	46
February	37	22	23	1	80	39	77	46
March	28	10	23	1	62	37	70	46
April	21	13	21	1	48	29	52	51
May	12	į	20	1	35	35	80	50
June	9	6	20	1	29	29	67	46
July	7	5	21	,	26	27	64	62
August	•	4	20	1	25	27	69	82
September	7	5	21	,	26	26	71	66
October	11		23	1	31	27	63	62
November	23	15	26	i	48	31	72	50
December	41	25	27	1	98	46	71	52
Total	242	149	267	14	607	409	843	668
1993								
January	48	28	29	1	115	49	67	47
February	41	24	27	1	88	51	72	48
March	37	22	25	1	70	39	73	49
April	25	14	24	1	49	31	68	38
May	15	9	24	1	30	29	69	24
June	9	6	23	1	31	24	65	37
July	7	5	22	2	28	26	76	38
August	6	5	22	2	27	22	69	56

Notes + Data for 1991 through 1992 are final. All other data are preliminary unless otherwise indicated. • Geographic coverage is the 50 States and the District of Columbia. • Totals may not equal sum of components due to independent rounding.

Sources: All data except electric utility: EIA, Natural Gas Annual 1992, 1991 through 1992, and Form EIA-857 and computations January 1993 through current month. See Appendix A, Explanatory Note 5 of the Natural Gas Monthly for computation procedures and revision policy. Electric utility data. Form EIA-759, "Monthly Power Plant Report." (formerly Form FPC-4).

Figure 16. Natural Gas Deliveries to Consumers in the United States, 1989 - 1993



Sources Energy Information Administration (EIA), Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers," Form EIA-759, "Monthly Power Plant Report," Natural Gas Annual and Natural Gas Monthly

Table 6. Selected National Average Natural Gas Prices in the United States
(Dollars per Thousand Cubic Feet)

Year and	Wellhead	Majo Pipelin	r interstate le Companies	City		Delivered to	Consumers	
Month	Price*	Imports ^b	Purchased from Producers ^b	Gate	Residential	Commercial	industrial	Electric
1987 Annual Average	1 67	217	2 10	2 87	5 54	4 77	2 94	2 32
1988 Annual Average	1 69	2 00	2 13	2 92	5 47	4 63	2 95	2 3 3
1989 Annual Average	1 69	2 04	2 18	301	5 64	4 74	2 96	2 4 3
1990 Annual Average	1.71	2 0 3	2 19	3 0 3	5.80	4 83	2 93	2 39
1991								
January	1 96	2 20	2 19	3 08	5 54	4 94	3 25	2 70
February	1.62	2 10	1 93	2 94	5 56	4 94	2 97	2 35
March	1.49	1.92	2 0 2	2.78	5 60	4.89	2.75	2.21
April	1.50	2 0 3	187	2.74	5 90	4 87	2 69	2 10
May	1 48	1 99	1 96	2 76	6 28	4 65	2 40	201
June	1 43	2 0 3	1 75	2 86	6 9 7	4 80	2 34	1.94
VIUV	1 34	211	1 79	2 74	7 23	4 50	2 23	1 88
August	1 43	171	171	2 78	7 36	4 73	2 29	196
September	1 59	1 84	1.78	291	6 92	4 57	2 40	2 19
October	1 82	2 00	1 94	2 92	6 20	4 58	2 69	2 35
November	1 89	2 20	2 02	2 92	5 5 1	4 71	2 84	2 43
December	2 00	2 09	2 11	3 05	5 5 1	4 84	3 09	2 64
Annual Average	1 64	2 02	1 92	2 90	5 82	4.81	2 69	2 18
1992								
January	1.74	2 20	2 10	2 90	5.53	4.85	3 04	2 49
February	1 26	198	1 70	2 70	5 54	5 03	2 79	203
March	1 35	1 45	1 90	261	5 50	4 77	2 59	199
April	1 42	201	1 73	274	5 62	4 77	2 54	H 2 07
-	1 51	1 79	1 99	2 90	6 15	4 59	2 44	211
May	_	2 03	2 16	3 00	6.84		2 4 4 2 5 3	-
June	1 62	1 89	1 86	301	5 84 7 27	4 7 <i>2</i> 4 64	2 5 4	2 18 2 13
July	1 55				_			-
August	1 84	1.85	2 14	3 18	7 45	4 73	2 71	2 42
September	1 92	2 05	2 13	3 23	7 15	4 69	2 82	251
October	2 38	2 13	2 69	3 50	6 52	4 90	3 21	3 0 4
November	2 13	2 32	2 37	3 33	6 02	5 12	3 26	2 87
December	207	1 92	2 40	3 17	5 74	5 11	3 38	281
Annual Average	1 74	1 97	2 10	301	5 89	4 88	2 84	2 36
1993	_							
January	¶ 196	2 0 2	2 17	3 11	571	5 18	3 26	2 70
February	¶ 1 72	191	194	2 94	5.71	5 08	3 12	2.55
March	1 89	1.79	2 20	3 06	5 66	5 06	3 08	261
April	M 2 05	2 15	2 34	3 24	5 99	5 13	3 13	2 75
May	<u>*</u> 2 30	2 13	281	3 58	6 72	5.21	3 24	2 90
June	M 1 87	1.95	2 03	R 3 44	7 32	5 31	2 95	2.47
July	* 191	1.78	2 02	3 34	7 83	5 0 3	2 7 1	M 2 46
August	2 07	2 0 2	2 35	3 35	8 10	5 26	2 86	NA
1993 YTD	1 97	2 00	2 23	3 19	6 05	5 13	3 06	2 09
1992 YTD	1.54	1.90	1 95	2 84	5 80	4 81	2 66	2 18
1991 YTD	1 53	201	1 90	2.87	5 86	4 85	2 65	2 09

Notes: • Data for 1987 through 1992 are final. All other data are preliminary unless otherwise indicated. • Geographic coverage is the 50 States and the District of Columbia. • Prices for gas delivered to industrial consumers for 1987 and 1988 imputed averages for volumes of gas delivered for the account of others. From 1988 on, prices reflect on system sales prices only. The change in the series in 1988 affects the commercial, and industrial sector prices.

Sources • Average wellhead price: EIA, Natural Gas Annual 1992, 1987 through current month. See Appendix A, Explanatory Note 8 of the NGM for estimation procedures and revision policy • Imports and Interstate Pipeline Company Purchases: Form FERC-11. • Average City Gate, Residential, Commercial and Industrial average prices for 1987 through current month from Form EIA-857. See Appendix A, Explanatory 5 of the NGM for discussion of revision policy • Electric Utilities averages from Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

^{*} See Appendix A, Explanatory Note 8 of the Natural Gas Monthly (NGM) for discussion of wellhead price.

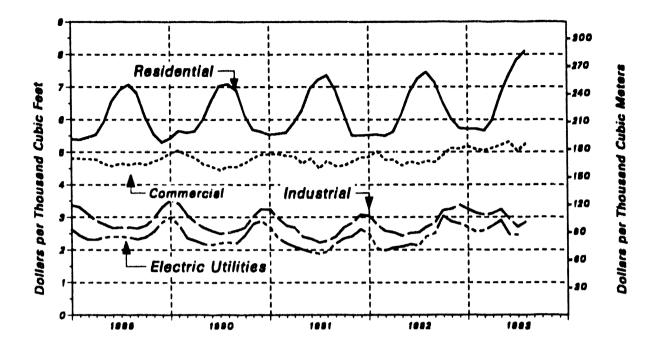
See Appendix A, Explanatory Note 9 of the NGM for discussion of major interstate pipeline company data

Includes all stream electric utility generating plants with a combined capacity of 50 megawatts or greater.

NA = Not Available.

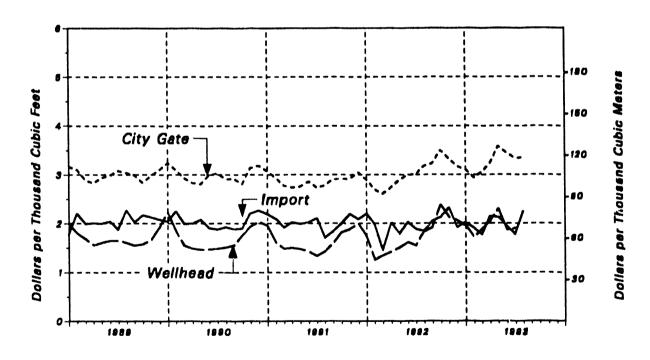
R = Revised data

Figure 17. Average Price of Natural Gas Delivered to Consumers in the United States, 1989 - 1993



Sources: Energy Information Administration (EIA), Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers," Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants," Natural Gas Annual.

Figure 18. Average Price of Natural Gas in the United States, 1989 - 1993



Sources: Energy Information Administration (EIA), Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers," Form FERC-11, "Natural Gas Pipeline Company Monthly Statement," Natural Gas Annual.

Prices



Distillate fuel oil and propane are tvo sources of residential heating in the United States.

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Table 7. Residential Heating Oil Prices by Region and State (Cents per Gallon)

	1992/93 Heating Season										
Region/State	October	November	December	January	February	March					
A.,	97.2	98.3			A= A						
Average	9/.2	90'9	97.3	97.5	97.6	98.1					
		99.8	97.3 99.1	97.5 99.3	99.5	98.					
East Coast (PADD I)	98.6	99.8	99.1	99.3	99.5	99.9					

	1993/94 Heating Season												
Region/State	10/04	10/18	11/01	11/15 ^P	12/06	12/20	01/03	01/17	02/07	02/21	03/07	03/21	
Average	93.6	94.7	94.6	94.7				L				, ,	
East Coast (PADD I)	95.0	95.6	95.8	95.9									
New England (PADD IX)	91.4	91.7	91.6	91,6									
Connecticut	94.9	95.8	96.0	96.0									
Maine	83.2	82.7	81.0	79.6									
Massachusetts	91.6	91.6	91.6	92.0									
New Hampshire	86.5	87.4	88.0	88.0									
Rhode Island	95.5	95.2	^R 94.2	94.2									
Vermont	91.3	92.0	91.9	91.8									
Central Atlantic (PADD IY)	97.4	98.1	98.5	98.7									
Delaware	91.6	92.4	92.6	92.6									
District of Columbia	105.4	105.5	105.5	105.4									
Maryland	97.9	98.1	98.4	98.5									
New Jersey	98.1	99.6	99.8	99.3									
New York	103.4	103.8	104.4	104.7									
Pennsylvania	86.4	87.3	87.6	88.0									
Lower Atlantic (PADD IZ)	89.0	89.6	89.3	89.6									
North Carolina	89.5	89.8	89.1	89.5									
Virginia	88.4	89.4	89.5	89.7									
Midwest (PADD II)	85.8	89.3	88.2	87.4									
Indiana	85.4	88.3	R87.0	86.0									
lowa	79.1	NA	82.6	NA									
Michigan	86.6	89.6	90.0	89.1									
Minnesota	88.9	92.5	91.9	90.5									
Ohio	84.2	86.5	86.2	85.3									
Wisconsin	85.4	88.8	87.1	85.9									

NA≈Not available. P=Preliminary data. R=Revised data.

Figure 19. Residential Heating Oil Prices, New England

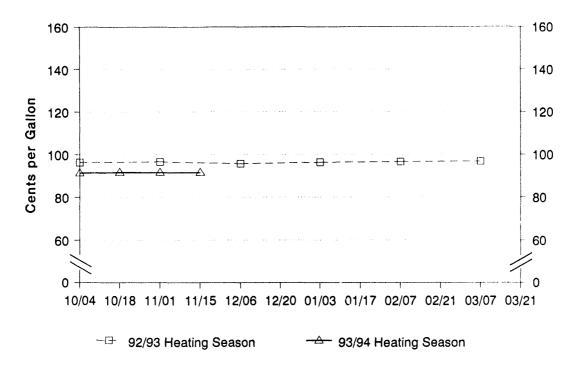


Figure 20. Residential Heating Oil Prices, Central Atlantic

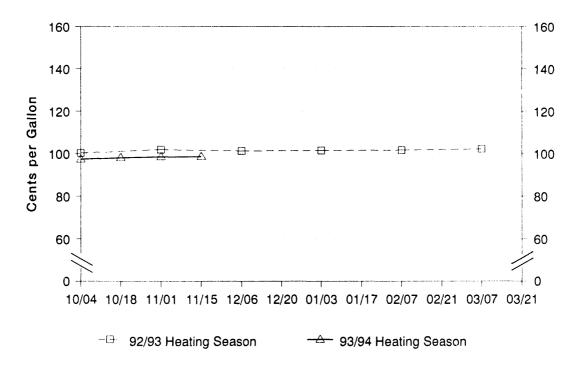


Figure 21. Residential Heating Oil Prices, Lower Atlantic

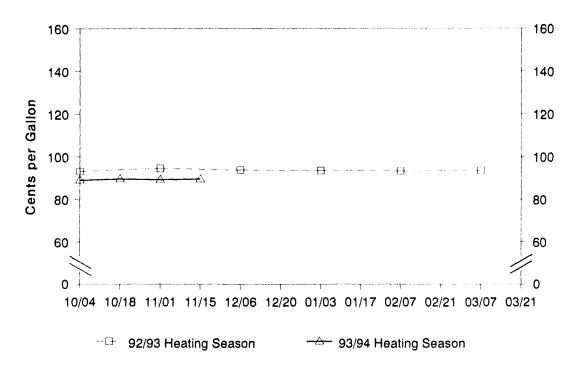


Figure 22. Residential Heating Oil Prices, Midwest

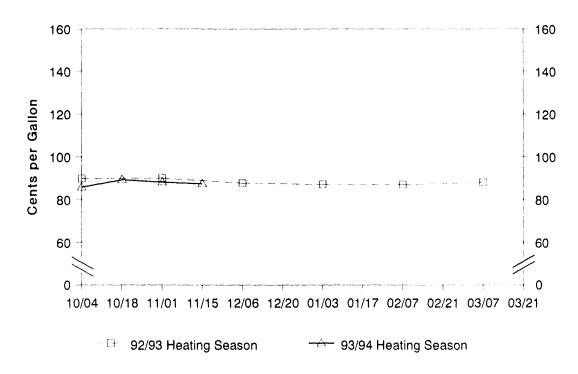


Table 8. Residential Propane Prices by Region and State (Cents per Gallon)

	1992/93 Heating Season										
Region/State	October	November	December	January	February	March					
Average	85.8	87.2	89.5	97.9	94.6	95.6					
East Coast (PADD I)	115.1	115.4	115.7	116.7	116.9	118.1					
New England (PADD IX)	116.9	116.6	116.4	117.4	118.3	119.3					
Central Atlantic (PADD IY)	125.2	125.6	126.4	127.3	127.0	129.8					
Lower Atlantic (PADD IZ)	100.2	100.5	100.8	102.2	102.0	101.3					
Midwest (PADD II)	70.2	72.1	75.3	87.7	82.3	83.3					

	1993/94 Heating Season												
Region/State	10/04	10/18	11/01	11/15 ^P	12/06	12/20	01/03	01/17	02/07	02/21	03/07	03/21	
Average	87.4	87.6	R88.0	88.3	-	AND THE PERSON AND PERSON AND THE PE			er manusku, moment i natarovi	au connectionales et l é cours labours nêter	Market Strangeries of Common Stranger		
East Coast (PADD I)	111.3	111.2	111,3	111.7									
New England (PADD IX)	115.6	115.6	115.5	115.7									
Connecticut	112.2	112.9	_111.9	112.7									
Maine	125.8	125.5	^R 125.6	125.4									
Massachusetts	113.8	114.4	114.8	115.2									
New Hampshire	110.2	108.9	108.2	108.2									
Rhode Island	131.2	132.5	132.5	132.2									
Vermont	114.7	114.5	114.6	114.7									
Central Atlantic (PADD IY)	121.1	120.8	R120.6	120.9									
Delaware `	110.3	111.3	111.3	111.2									
Maryland	118.7	119.1	119.1	119.2									
New Jersey	118.6	118.6	R119.1	119.3									
New York	133.1	131.8	R _{130.4}	131.0									
Pennsylvania	113.8	113.8	113.8	114.0									
Lower Atlantic (PADD IZ)	95.2	95.3	95.6	96.3									
North Carolina	92.7	92.7	93.1	94.0									
Virginia	104.8	104.9	104.9	104.9									
Midwest (PADD II)	74.0	74.2	⁸ 74.6	74.9									
Indiana	79.8	81.5	82.5	83.0									
lowa	60.4	NA	60.2	NA									
Kansas	62.0	62.1	62.2	62.8									
Michigan	84.0	84.4	84.5	84.9									
Minnesota	75.6	76.7	R77.1	77.2									
Missouri	70.7	70.6	72.5	72.8									
North Dakota	61.4	62.2	62.4	62.5									
Ohio	87.4	87.7	87.8	87.3									
South Dakota	62.1	63.7	^R 63.9	64.4									
Wisconsin	77.3	76.8	76.5	76.3									

NA=Not available. P=Preliminary data.

P=Preliminary data.
R = Revised data.

Figure 23. Residential Propane Prices, New England

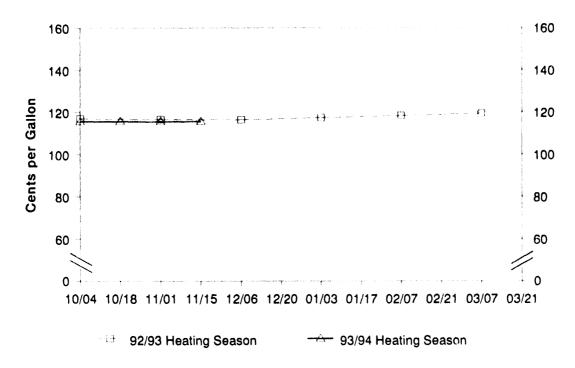


Figure 24. Residential Propane Prices, Central Atlantic

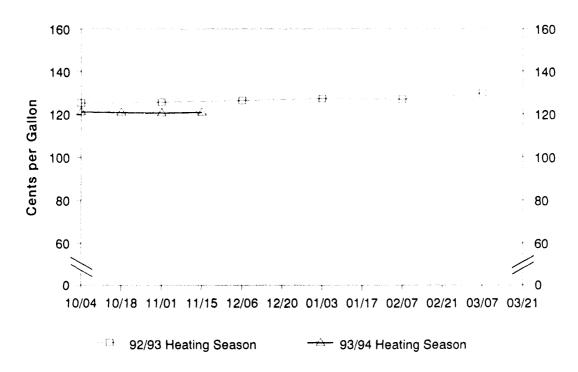


Figure 25. Residential Propane Prices, Lower Atlantic

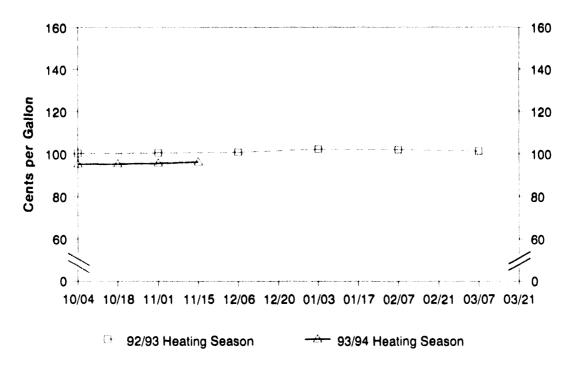


Figure 26. Residential Propane Prices, Midwest

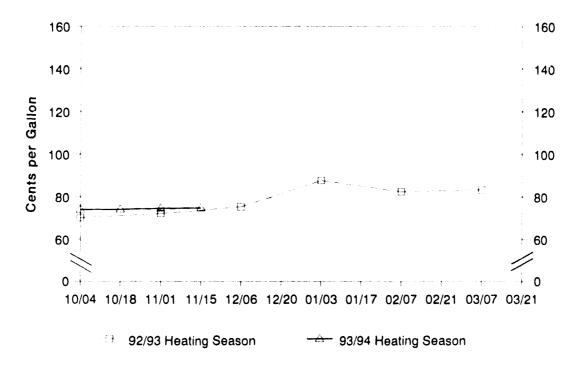


Table 9. Wholesale Heating Oil Prices by Region and State (Cents per Gallon)

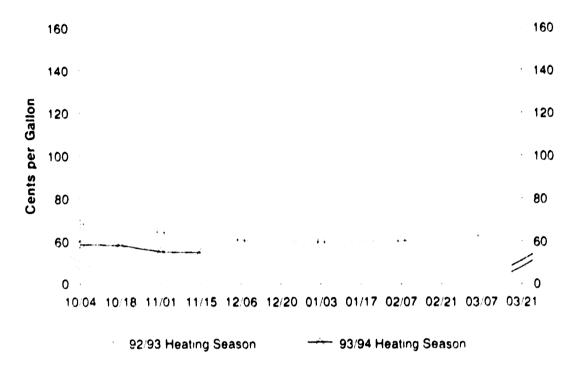
	1992/93 Heating Season											
Region/State	October	November	December	January	February	March						
Average	66.7	61.6	57.3	56.3	58.3	61.0						
East Coast (PADD I)	8.89	61.9	58.1	56.9	58.7	61.1						
New England (PADD IX)	68.2	64.2	60.4	59.4	60.0	62.3						
Central Atlantic (PADD IY)	66.2	60.9	57.1	55.8	58.3	60.7						
Lower Atlantic (PADD IZ)	65.9	60.0	55.8	54.8	57.1	59.4						
Midwest (PADD II)	66.6	60.7	54.8	54.4	57.3	60.4						

	1993/94 Heating Season												
Region/State	10/04	10/18	11/01	11/15 ^P	12/06	12/20	01/03	01/17	02/07	02/21	03/07	03/21	
Average	58.8	58.9	54.7	53.8			• •		i, .	ł			
East Coast (PADD I)	58.1	57.5	54.3	53.7									
New England (PADD IX)	58.5	58.2	55.1	54.8									
Connecticut	58.9	57.8	54.4	54.3									
Maine	59.3	59.6	56.5	56.2									
Massachusetts	58.4	58.3	54 9	54.6									
New Hampshire	57.8	57.0	55.5	55.3									
Rhode Island	58.3	57.9	54.8	54.3									
Vermont	NA	61.1	57.6	57.4									
Central Atlantic (PADD IY)	58.1	57.3	54.1	53.3									
Delaware	57.0	56.2	53.5	52.7									
District of Columbia	56.9	56.8	53.1	52.5									
Maryland	56.9	56.3	52.9	52.1									
New Jersey	57.6	55.9	52.7	52.4									
New York	58.7	58.6	55.9	54.8									
Pennsylvania	58.8	58.5	54.7	53.5									
Lower Atlantic (PADD IZ)	57.1	56.5	53.2	52.4									
North Carolina	57.6	57.1	53.6	52.7									
Virginia	56.7	56.0	52.8	52.2									
Midwest (PADD II)	61.1	63.6	56.0	54.1									
Illinois	61.1	62.1	54.8	52.8									
Indiana	58.9	59.3	53.0	51.4									
lowa	64.1	67.1	57.6	56.1									
Kansas	64.7	68.9	57.4	56.3									
Michigan	57.2	58.9	52.2	50.4									
Minnesota	63.4	68.5	60.1	58.5									
Missouri	61.9	66.3	56.6	53.5									
North Dakota	65.8	73.8	68.6	61.6									
Ohio	60.9	61.9	55.8	54.0									
South Dakota	67.7	76.2	69.7	64.2									
Wisconsin	61.5	64.8	56.3	55.3									

NA = Not available.

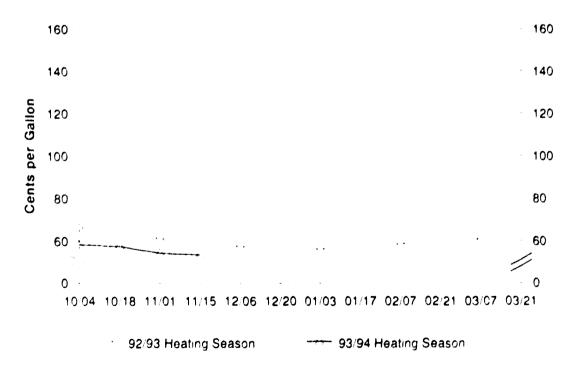
P=Preliminary data.
Source: Based on terminal quotes collected by the Computer Petroleum Corporation, Inc.

Figure 27. Wholesale Heating Oil Prices, New England



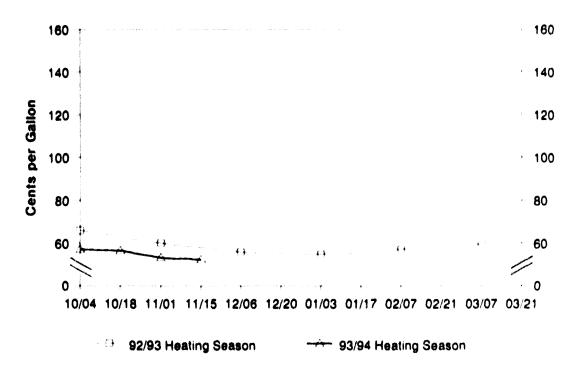
Source Based on terminal quotes collected by the Computer Petroleum Corporation, Inc.

Figure 28. Wholesale Heating Oil Prices, Central Atlantic



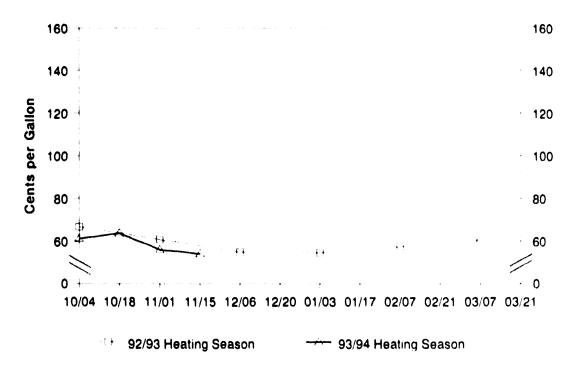
Source Based on terminal quotes collected by the Computer Petroleum Corporation. Inc.

Figure 29. Wholesale Heating Oil Prices, Lower Atlantic



Source: Based on terminal quotes collected by the Computer Petroleum Corporation, Inc.

Figure 30. Wholesale Heating Oil Prices, Midwest



Source: Based on terminal quotes collected by the Computer Petroleum Corporation, Inc.

Table 10. Wholesale Propane Prices by Region and State (Cents per Gallon)

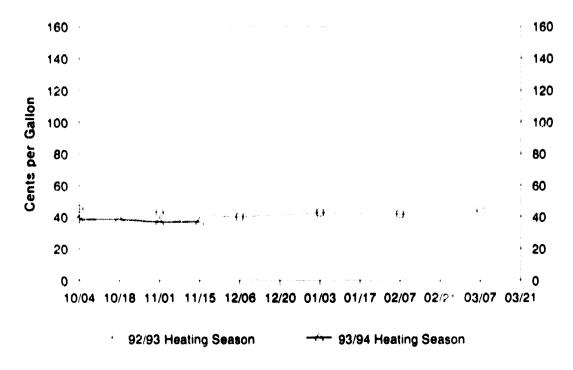
	1992/93 Heating Season										
Region/State	October	November	December	January	February	March					
Average	38.9	38.8	39.7	48.5	39.2	47.1					
East Coast (PADD I)	45.1	42.6	39.7	42.1	40.8	42.8					
Central Atlantic (PADD IY)	45 3	42 9	40 0	42.8	41.6	439					
Lower Atlantic (PADD IZ)	45 0	42 2	39.1	41.2	39.4	41.2					
Midwest (PADD II)	37.5	37.8	39.6	50.0	38.8	48.1					

					1993	/94 Hes	ting Sea	son				
Region/State	10/04	10/18	11/01	11/15 ^P	12/06	12/20	01/03	01/17	02/07	02/21	03/07	03/21
Average	38.2	38.2	36.3	35.9	,							
East Coast (PADD I)	37.9	38.1	36.5	36.4								
Central Atlantic (PADD IY)	38.6	38.7	36.9	37.1								
New York	38.9	38.9	37 1	37.3								
Pennsylvania	38.3	38.5	36 8	36 9								
Lower Atlantic (PADD IZ)	36.9	37.2	35.6	35.5								
North Carolina	36.9	37.2	35.8	35.5								
Midwest (PADD II)	38.3	38.3	36.3	35.8								
Illinois	399	39.8	37.9	37.3								
Indiana	36 8	36.8	35.3	34.8								
lowa	39.0	39.1	37.0	36.3								
Kansas	36.3	36.2	33.9	33.5								
Minnesota	39.2	39.4	37.3	36.7								
Missouri	38.6	38.5	36.4	35.8								
North Dakota	38.4	38.5	35.6	35.8								
Ohio	370	36 9	35.3	35 0								
South Dakota	39.6	39 7	37.1	36 9								
Wisconsin	413	41.7	40.0	40 0								

Source These data are average prices collected by the Computer Petroleum Corporation, Inc.

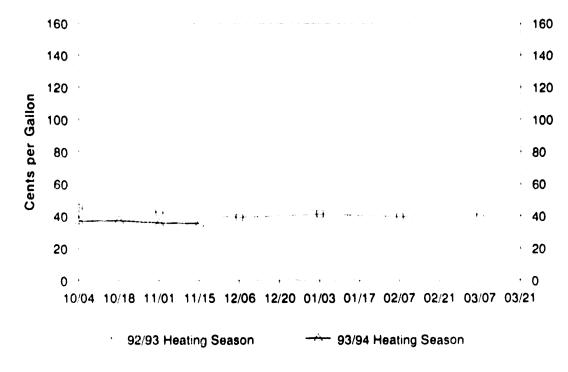
P=Preliminary data.

Figure 31. Wholesale Propane Prices, Central Atlantic



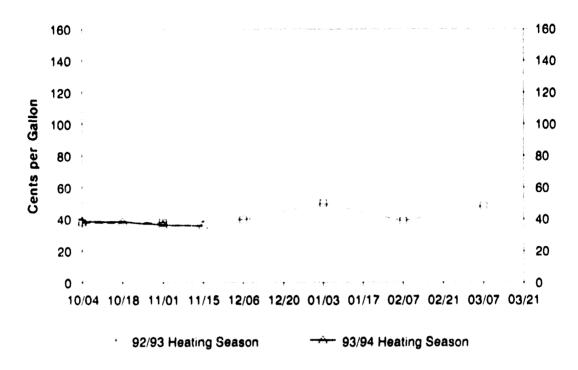
Source: Based on data collected by the Computer Petroleum Corporation, Inc.

Figure 32. Wholesale Propane Prices, Lower Atlantic



Source. Based on data collected by the Computer Petroleum Corporation, Inc.

Figure 33. Wholesale Propane Prices, Midwest



Source Based on data collected by the Computer Petroleum Corporation, Inc.

Table 11. U.S. Crude Oil and Petroleum Product Prices

(Cents per Gallon, Except Where Noted)

	Crude		No. 2 D	istillate			Propane	
Report Period	WTI (Dollars per Barrel)	Spot	Terminal	Resi- dential	Diesei Retail	Spot	Terminal	Resi- dential
Monthly					-			
11/92	20 33	55.0	60.3	97 8	123.7	31.1	38.1	88 3
12/92	19 39	54 2	59 2	97.4	122 6	32.4	43 3	94.8
01/93	19 04	54.6	58 0	97 5	122 1	32 9	44 7	97.5
02/93	20 08	57.0	60 6	97 8	121.9	33 4	41.0	95 3
03/93	20 31	57.4	62 0	95.9	122 2	34.2	40.5	94 0
04/93	20 25	55.2	59 4	NA	122 9	NA	37.4	92 4
05/93	19 95	53 9	58 1	NA	122.7	NA	37 9	NA
06/93	19 09	51 7	56 1	NA	122 3	NA	37.2	NA
07/93	17 90	49.6	53 8	NA	119 6	NA	35 9	NA
08/93	18.02	51.4	55.8	NA NA	118.4	NA NA	36.7	NA
09/93	17.48	52.3	56 4	NA NA	118 6	NA NA	37.6	NA
10/93	18 10	52.3 53.7	58 4	94.2	NA NA	NA	37.6	87.5
10/93	18 10	53.7	DO:4	54.€	NA.	NO	37.0	6/3
Week Ending								
10/01/93	18 30	55 5	NA.	NA	NA	NA	NA	NA
10/08/93	18.35	55.1	59.3	93 6	NA	NA	38 2	87 4
10/15/93	18 52	54.8	59 4	NA	NA	NA	38 4	NA
10/22/93	18 12	53.6	58.4	94 7	NA	NA	37.9	87.6
10/29/93	17.36	51.6	56 9	NA	NA	NA	36.4	NA
11/05/93	17.29	51.4	55.9	94 6	NA	NA	36 4	88 0
11/12/93	16.71	50 2	54 5	NA	NA	NA	36 6	NA
11/19/93	16.75	50.6	54.7	94.7	NA	NA	28 5	88 3
Ootto.								
Daily	47.00	£4.0	EC 0	NA	A1.A	NA	36 3	NA
11/02/93	17 03 17 47	51 2	56.2 56.1	NA NA	NA NA	NA NA	36 4	NA NA
11/03/93		51 6						
11/04/93	17.38	51.3	55.9	NA	NA	NA	36 5	NA NA
11/05/93	17.09	50.5	55.7	NA	NA	NA	36 5	NA NA
11/08/93	16 69	49.8	55 0	NA	NA	NA	36 7	
11/09/93	16.71	49.7	54.4	NA	NA	NA	36 8	NA
11/10/93	16.54	49.8	54 1	NA	NA	NA	36 6	NA
11/11/93	16.91	50.9	54.2	NA	NA	NA	36 5	NA
11/12/93	16 72	50.7	54.9	NA _	NA	NA	36.3	NA
11/15/93	16.78	50.4	54.7	94.7	NA	NA	36 0	88.3
11/16/93	16.69	50.0	54.6	NA	NA	NA	35 9	NA
11/17/93	17.08	51.4	54.2	NA	NA	NA	NA	NA
11/18/93	16.67	50.9	55.0	NA	NA	NA	35 2	NA
11/19/93	16.55	50.6	54 9	NA	NA	NA	35.3	NA
11/22/93	16.67	50.7	54.8	NA	NA	NA	35.4	NA

NA-Not available

RaRevised data

Source • Spot West Texas Intermediate (WTI) at Cushing, Oklahoma, No. 2 distillate in New York Harbor from Reuters. • Computer Petroleum Corp rack (terminal) prices • Residential No. 2 distillate and propane prices from State Heating Oil and Propane Program • Diesel Retail prices from Lundberg PS • Mt. Belvieu, Texas, spot propane prices from Platts' Oilgram Price Report

Table 12. Petroleum Product Prices for Selected Cities (Cents per Gallon)

		Chicago		Houston				
	No. 2	Distillate	Propane	No. 2	Distillate	Propane		
Report	Manufacture of the state of the							
Period	Spot	Terminal	Terminal	Spot	Terminal	Termina		
Monthly								
11/92	53.4	55.9	39.1	54.0	55.8	32.2		
12/92	51.3	53.3	46.7	52.7	54.8	32.9		
01/93	52.2	53.9	47.2	52.0	53.5	35.4		
02/93	55.4	57.8	44.1	53.9	56.0	35.7		
03/93	56.3	59.1	42.0	55.2	56.9	36.9		
04/93	55. 6	57.2	37.6	53.6	55.5	36.5		
05/93	55.2	56.9	37.2	52.8	55.4	34.8		
06/93	52.2	54.3	39.1	50.2	52.8	34.5		
07/93	45.7	48.3	37.5	47.9	49.8	33.7		
08/93	47.2	48.4	38.9	50.9	52.1	33.1		
09/93	50.9	52.2	39.7	49.9	51.8	32.7		
10/93	51.4	59.0	39.7	51.6	55.6	32.0		
		20.0	5517	51.5	00.0	02.0		
Neek Ending								
10/01/93	NA	NA	NA	NA	NA	NA		
10/08/93	54.8	60.5	40.4	54.1	56.6	32.8		
10/15/93	53.4	63.1	40.4	53.1	56.7	32.6		
10/22/93	51.2	59.2	39.9	51.6	56.3	32.3		
10/29/93	49.2	54.5	38.6	50.1	53.6	30.8		
11/05/93	42 2	51.6	38.6	49.6	53.1	30.7		
11/12/93	47.6	50.4	38.5	47.4	51.9	30.9		
11/19/93	49.4	50.9	37.2	49.2	52.8	30.3		
Daily								
11/02/93	17.7	52.0	38.6	49.8	53.3	30.6		
11/03/93	47.8	51.7	38.7	49.9	53.2	30.7		
11/04/93	48 7	51.5	38.7	49.4	53.2	30.7		
11/05/93	47.6	51.1	38.7	48.4	53.0	30.8		
11/08/93	47.1	50.8	38.8	47.8	52.8	31.2		
11/09/93	47.2	50.1	38.7	45.8	52.2	31.2		
11/10/93	47.3	49.7	38.5	44.9	51.2	31.0		
11/11/93	48.2	50.1	38.4	49.3	51.5	31.0		
11/12/93	48.0	51.5	38.2	49.2	NA	30.3		
11/15/93	48.0	50.9	37.6	48.7	52.4	30.4		
11/16/93	48.0	50.7	37.6	48.4	52.5	30.4		
11/17-93	50.5	50.4	37.1	49.7	52.4	30.4		
11/18/93	50.5	51.2	36.8	49.7	53.5	30.4		
11/19/93	50.0	51.2	37.0	49.3	53.3	30.2		
11/22/93	49.5	51.1	37.2	49.0	53.0	30.0		

See footnotes at end of table.

Table 12. Petroleum Product Prices for Selected Cities (Continued)

(Cents per Gallon)

rminal Term 12.4 40. 11.7 42. 19.4 47. 10.9 42. 13.0 41. 13.5 37. 13.1 35. 19.6 33. 17.7 33. 17.6 36. 14.1 41. 16.6 45.	.1 54.2 .2 54.6 .6 57.0 .0 57.4 .2 55.2 .2 53.9 .0 51.7 .7 49.6 .2 51.4 .5 52.3 .4 53.7 55.5 .3 55.1 .0 54.8	60.3 59.2 58.0 60.6 62.0 59.4 58.1 56.1 53.8 55.8 56.4 58.4	42.0 42.3 43.8 43.7 45.5 44.1 42.0 41.6 40.5 39.9 39.5 39.5
12.4 40. 11.7 42. 19.4 47. 10.9 42. 13.0 41. 13.5 37. 13.1 35. 19.6 33. 17.7 33. 17.6 36. 14.1 41. 16.6 45.	.2 55.0 .1 54.2 .2 54.6 .6 57.0 .0 57.4 .2 55.2 .2 53.9 .0 51.7 .7 49.6 .2 51.4 .5 52.3 .4 53.7 55.5 .3 55.1 .0 54.8	60.3 59.2 58.0 60.6 62.0 59.4 58.1 56.1 53.8 55.8 56.4 58.4	42.0 42.3 43.8 43.7 45.5 44.1 42.0 41.6 40.5 39.9 39.5 39.5
12.4 40. 11.7 42. 19.4 47. 10.9 42. 13.0 41. 13.5 37. 13.1 35. 19.6 33. 17.7 33. 17.6 36. 14.1 41. 16.6 45.	.2 55.0 .1 54.2 .2 54.6 .6 57.0 .0 57.4 .2 55.2 .2 53.9 .0 51.7 .7 49.6 .2 51.4 .5 52.3 .4 53.7 55.5 .3 55.1 .0 54.8	60.3 59.2 58.0 60.6 62.0 59.4 58.1 56.1 53.8 55.8 56.4 58.4	42.0 42.3 43.8 43.7 45.5 44.1 42.0 41.6 40.5 39.9 39.5 39.5
31.7 42. 19.4 47. 10.9 42. 13.0 41. 13.5 37. 13.1 35. 19.6 33. 17.7 33. 17.6 36. 14.1 41. 16.6 45. A NA 16.6 45. 45. 45.	.1 54.2 .2 54.6 .6 57.0 .0 57.4 .2 55.2 .2 53.9 .0 51.7 .7 49.6 .2 51.4 .5 52.3 .4 53.7 .5 55.5 .3 55.1 .0 54.8	59.2 58.0 60.6 62.0 59.4 58.1 56.1 53.8 55.8 56.4 58.4	42.3 43.8 43.7 45.5 44.1 42.0 41.6 40.5 39.9 39.5 39.5
31.7 42. 19.4 47. 10.9 42. 13.0 41. 13.5 37. 13.1 35. 19.6 33. 17.7 33. 17.6 36. 14.1 41. 16.6 45. A NA 16.6 45. 45. 45.	.1 54.2 .2 54.6 .6 57.0 .0 57.4 .2 55.2 .2 53.9 .0 51.7 .7 49.6 .2 51.4 .5 52.3 .4 53.7 .5 55.5 .3 55.1 .0 54.8	59.2 58.0 60.6 62.0 59.4 58.1 56.1 53.8 55.8 56.4 58.4	42.3 43.8 43.7 45.5 44.1 42.0 41.6 40.5 39.9 39.5 39.5
99.4 47. 10.9 42. 13.0 41. 13.5 37. 13.1 35. 19.6 33. 17.7 33. 17.6 36. 14.1 41. 16.6 45.	.2 54.6 .6 57.0 .0 57.4 .2 55.2 .2 53.9 .0 51.7 .7 49.6 .2 51.4 .5 52.3 .4 53.7 .5 55.5 .3 55.1 .0 54.8	58.0 60.6 62.0 59.4 58.1 56.1 53.8 55.8 56.4 58.4	43.8 43.7 45.5 44.1 42.0 41.6 40.5 39.9 39.5 39.5
42. 33.0 41. 33.5 37. 33.1 35. 39.6 33. 77.7 33. 44.1 41. 46.6 45.	.6 57.0 .0 57.4 .2 55.2 .2 53.9 .0 51.7 .7 49.6 .2 51.4 .5 52.3 .4 53.7 55.5 .3 55.1 .0 54.8	60.6 62.0 59.4 58.1 56.1 53.8 55.8 56.4 58.4	43.7 45.5 44.1 42.0 41.6 40.5 39.9 39.5 39.5
33.0 41. 33.5 37. 33.1 35. 99.6 33. 77.7 33. 76.6 36. 44.1 41. 66.6 45.	.0 57.4 .2 55.2 .2 53.9 .0 51.7 .7 49.6 .2 51.4 .5 52.3 .4 53.7 .5 55.5 .3 55.1 .0 54.8	62.0 59.4 58.1 56.1 53.8 55.8 56.4 58.4 NA 59.3 59.4	45.5 44.1 42.0 41.6 40.5 39.9 39.5 39.5
33.5 37. 33.1 35. 39.6 33. 37.7 33. 37.6 36. 44.1 41. 46.6 45.	.2 55.2 .2 53.9 .0 51.7 .7 49.6 .2 51.4 .5 52.3 .4 53.7 55.5 .3 55.1	59.4 58.1 56.1 53.8 55.8 56.4 58.4 NA 59.3 59.4	44.1 42.0 41.6 40.5 39.9 39.5 39.5
33.1 35. 19.6 33. 17.7 33. 17.6 36. 14.1 41. 16.6 45. A NA 16.6 44. 16.6 45.	.2 53.9 .0 51.7 .7 49.6 .2 51.4 .5 52.3 .4 53.7 55.5 .3 55.1 .0 54.8	58.1 56.1 53.8 55.8 56.4 58.4 NA 59.3 59.4	42.0 41.6 40.5 39.9 39.5 39.5
99.6 33. 67.7 33. 67.6 36. 64.1 41. 66.6 45. A NA 66.6 44.	.0 51.7 .7 49.6 .2 51.4 .5 52.3 .4 53.7 55.5 .3 55.1 .0 54.8	56.1 53.8 55.8 56.4 58.4 NA 59.3 59.4	41.6 40.5 39.9 39.5 39.5 NA 40.0
77.7 33. 67.6 36. 64.1 41. 66.6 45. A NA 66.6 44. 66.6 45.	.7 49.6 .2 51.4 .5 52.3 .4 53.7 .55.5 .3 55.1 .0 54.8	53.8 55.8 56.4 58.4 NA 59.3 59.4	40.5 39.9 39.5 39.5 NA 40.0
A NA 66.6 45. A NA 66.6 45.	.2 51.4 .5 52.3 .4 53.7 55.5 .3 55.1 .0 54.8	55.8 56.4 58.4 NA 59.3 59.4	39.9 39.5 39.5 NA 40.0
A NA 66.6 45. A NA 66.6 44. 66.6 45.	.5 52.3 .4 53.7 .55.5 .3 55.1 .0 54.8	56.4 58.4 NA 59.3 59.4	39.5 39.5 NA 40.0
A NA 66.6 44. 66.6 45.	.4 53.7 55.5 .3 55.1 .0 54.8	58.4 NA 59.3 59.4	39.5 NA 40.0
A NA 66.6 44. 66.6 45.	55.5 .3 55.1 .0 54.8	NA 59.3 59.4	NA 40.0
66.6 44. 66.6 45.	.3 55.1 .0 54.8	59.3 59.4	40.0
66.6 44. 66.6 45.	.3 55.1 .0 54.8	59.3 59.4	40.0
66.6 44. 66.6 45.	.3 55.1 .0 54.8	59.3 59.4	40.0
66.6 45.	.0 54.8	59.4	
66.6 46.	.U 53.b	58.4	39.7
A 46.			
A 46.	.0 51.2	56.2	38.0
A 46.			
			38.6
A NA			
A 46		54.9	
	IA 46 IA 46 IA NA IA 46 IA 46 IA NA	IA 46.0 49.8 IA 46.0 50.9 IA NA 50.7 IA 46.0 50.4 IA 46.0 50.0 IA NA 51.4 IA 46.0 50.9	IA 46.0 49.8 54.1 IA 46.0 50.9 54.2 IA NA 50.7 54.9 IA 46.0 50.4 54.7 IA 46.0 50.0 54.6 IA NA 51.4 54.2

NA=Not available.

Source: • No. 2 distillate spot prices in Chicago, Houston, and Los Angeles, are from Telerate; New York spot prices are from Reuters. • No. 2 distillate terminal prices in Chicago, Houston, Los Angeles, and New York are from Computer Petroleum Corp. • Propane terminal prices in Lemont, Illinois; Mt. Belvieu, Texas; Los Angeles, California; and Selkirk, New York are from Computer Petroleum Corp.

United States Weather Summary

6-10 Day Outlook- November 30 Through December 4, 1993

Above normal temperatures are expected from Minnesota eastward across most of Wisconsin and northern Michigan, and along the central California coast. Below normal temperatures are expected over much of the Intermountain region, extreme Southern California, from the central and eastern regions of Oklahoma eastward and southeastward across the southeastern quarter of the Nation as far south as central Florida and northward along the Eastern Seaboard as far north as the Pennsylvania-Maryland border. In unspecified areas which includes the southern half of the Florida peninsula, near normal temperatures are expected.

Little or no precipitation is indicated for the southern regions of Arizona, much of the central Great Plains, eastern Oklahoma, across an area stretching north northeastward from western Arkansas to southeastern Minnesota, and the northern sections of the Florida peninsula. Below normal amounts are likely for the southeastern quarter of the Nation bounded by the Gulf Coast in the South, the Atlantic Coast as far north as southern New Jersey in the East, portions of the upper Ohio Valley to the North, and most of the Mississippi Valley states to the West. Washington, Oregon, and the northwestern tip of California are also expected to have below normal amounts. Above normal amounts are indicated for southern and eastern California, most of the Plateau region, the Rockies, regions of the high Plains and most of the southern Plains, the Olympic peninsula of Washington, parts of the lower Rio Grande Valley, and extreme northern New York northeastward across northern New England. Unspecified areas are expected to have near normal amounts of precipitation.

(Refer to Figures 34 and 35).

30 Day Outlook - Mid-November Through Mid-December 1993

Calls for temperatures to average above normal with at least a 55 percent probability from the lower Mississippi Valley eastward to the Atlantic Coast, extending as far north as the Ohio River, Pennsylvania and New Jersey. Within this area the probability for above normal temperatures increases to at least 60 percent from the east Gulf region to the Carolinas, and rises to as high as 65 percent over extreme southern Florida. There is at least a 55 percent chance for below normal temperatures from Washington to Minnesota and extending southward through the northern two-thirds of the Intermountain region, the Rocky Mountains, the high Plains as far south as the Texas panhandle, and along the extreme southern California coast. The probability for below normal temperatures increases to at least 60 percent over the northeastern Intermountain region and the northern halves of both the Rockies and high Plains, rising to as high as 65 percent near the Canadian border of Montana. In unspecified areas the average temperatures probabilities are not expected to depart significantly from climatological values.

(Refer to Figure 36).

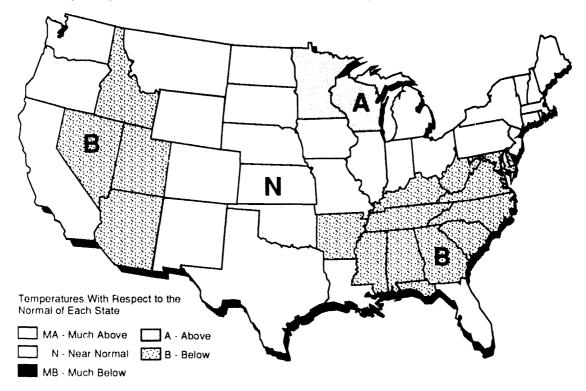
90 Day Outlook - November 1993 Through January 1994

Specifies above normal temperatures with at least a 55 percent chance in much of the far West and also in the northern Plains, Great Lakes, Midwest, middle Atlantic and southeastern states. The latter area is bounded by a line from central Montana through southern Illinois to the Florida panhandle and excludes New England. Within this area probabilities exceed 65 percent in a band from northern North Dakota to lower Michigan and northern Ohio. In the far West probabilities rise to 65 percent or higher in the San Francisco Bay area. There is at least a 55 percent chance of below normal temperatures in the south central portion of the Nation including New Mexico, southeastern Colorado, Oklahoma, Kansas, northern Utah, and southeastern Idaho. Probabilities rise as high as 60 percent in the Texas and Oklahoma panhandle. In unspecified areas the average temperatures probabilities are not expected to depart significantly from climatological values.

(Refer to Figure 37).

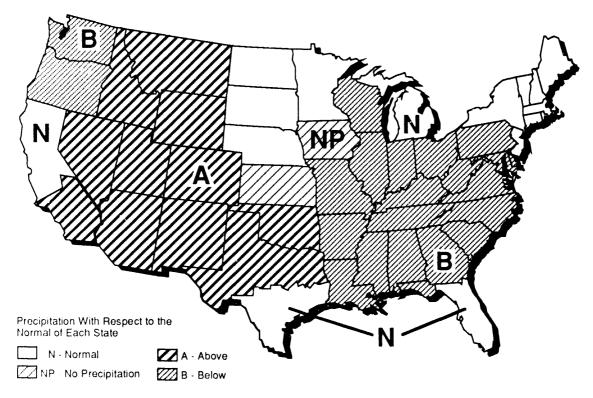
Source: National Weather Service, National Oceanic and Atmospheric Administration, U.S. Department of Commerce.

Figure 34. 6 - 10 Day Temperature Outlook for November 30 Through December 4, 1993



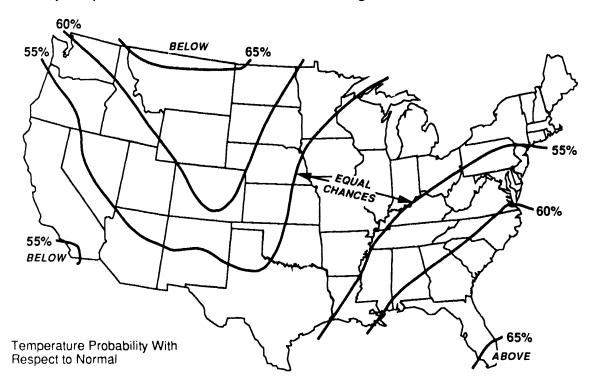
Source: National Weather Service, National Oceanic and Atmospheric Administration, U.S. Department of Commerce.

Figure 35. 6 - 10 Day Precipitation Outlook for November 30 Through December 4, 1993



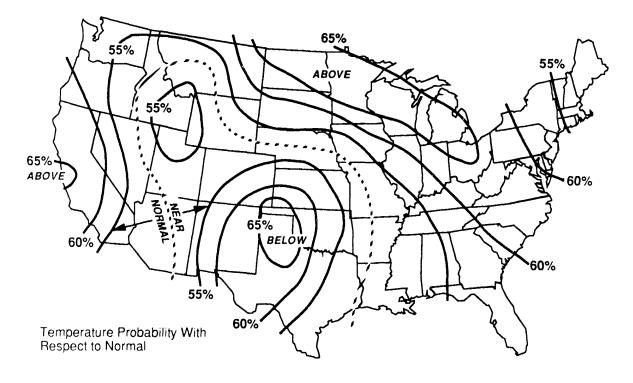
Source: National Weather Service, National Oceanic and Atmospheric Administration, U.S. Department of Commerce.

Figure 36. 30 Day Temperature Outlook for Mid-November Through Mid-December 1993



Source National Weather Service, National Oceanic and Atmospheric Administration, U.S. Department of Commerce.

Figure 37. 90 Day Temperature Outlook for November 1993 Through January 1994



Source National Weather Service, National Oceanic and Atmospheric Administration, U.S. Department of Commerce.

Table 13. U.S. Total Heating Degree Days by City

(Population Weighted Heating Degree-Days, Except Where Noted)

				Percent (Change
City	1993	1992- 1993	Normal	1993 vs. 1992-1993	1993 vs. Normal
July 1 - June 30		4,663	4,689	••	
July 1 - November 20	754	769	663	-2	14
Albuquerque	695	545	653	28	6
Amarillo	810	605	594	34	36
Asheville	693	743	686	. 7	1
Atlanta	350	370	366	-5	-4
Billings	1,483	1,275	1,351	16	10
Boise	1,123	1,022	1,063	10	6
Boston	839	1,032	754	-19	11
Buffalo	1,176	1,268	1,035	•7	14
Cheyenne	1,728	1,381	1,447	25	19
Chicago	1,165	1,149	949	1	23
Cincinnati	882	868	755	2	17
Cleveland	1,002	1,090	907	-8	10
Columbia, SC	330	379	334	-13	-1
Denver	1,208	950	1,058	27	14
Des Moines	1,157	1,066	922	9	25
Detroit	1,023	1,168	1,009	-12	1
Fargo	1,719	1,737	1,580	-1	9
Hartford	1,073	1,182	921	.9	17
	207	120	130	72	59
Houston				4	1
Jacksonville, FL	115	111	114	15	27
Kansas City	934	809	733		11
Las Vegas	251	190	227	32	
Los Angeles	45	14	127	221	-65
Memphis	439	336	363	31 ****	21 ****
Miami	4	0	0		
Milwaukee	1,062	1,212	1,119	-12	-5
Minneapolis	1,511	1,458	1,283	4	18
Montgomery	312	260	252	20	24
New York	596	755	597	-21	0
Oklahoma City	672	410	420	64	60
Omaha	1,133	1,042	937	9	21
Philadelphia	552	733	653	-25	-15
Phoenix	74	28	86	***	***
Pittsburgh	943	1,056	932	-11	1
Portland, ME	1,284	1,418	1,238	-9	4
Providence	907	1,002	840	-9	8
Raleigh	477	542	445	-12	7
Richmond	508	639	533	-21	-5
St. Louis	728	628	591	16	23
Salem, OR	864	756	984	14	-12
Salt Lake City	1,017	862	923	18	10
San Francisco	305	267	557	14	-45
Seattle	966	868	1,030	11	-6
		214	212	69	71
Shreveport	362				15
Washington, DC	551	678	479	-19	10

^{****=}Normal heating degree-days 100 or less, or ratio incalculable.

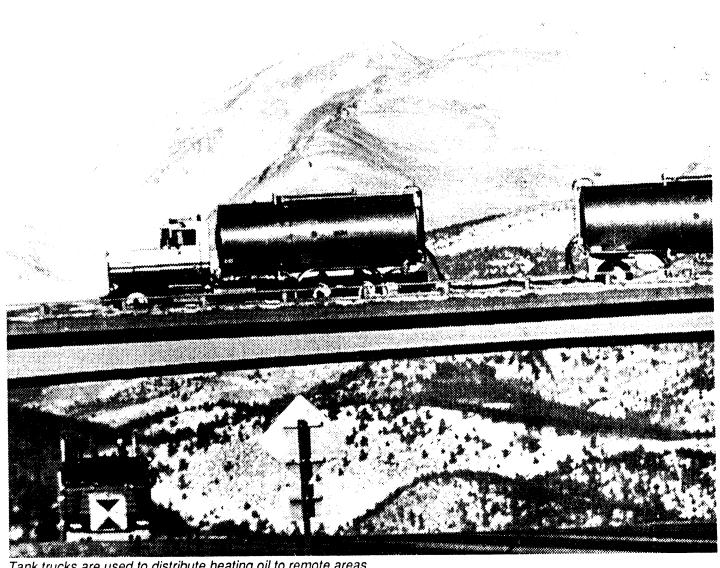
Note: • The weather for the Nation, as measured by population-weighted heating degree-days from July 1, 1993, through November 20, 1993, has been 2 percent warmer than last year and 14 percent cooler than normal.

[•] Heating degree days is defined as the number of degrees per day the daily average temperature is below 65 degrees Fahrenheit. The daily average temperature is the mean of the maximum and minimum temperature for a 24-hour period.

Source: Weather data reported in the Winter Fuels Report are taken directly from a computerized system implemented by the National Oceanic and Atmospheric Administration, Department of Commerce. The National Oceanic and Atmospheric Administration (NOAA)/NWS, as a U.S. Government Agency, does not endorse any consumer information services.

Appendix A

District Descriptions and Maps



Tank trucks are used to distribute heating oil to remote areas.

Appendix A

District Descriptions and Maps

The following are the Petroleum Administration for Defense (PAD) Districts.

PAD District I

East Coast: District of Columbia and the States of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New Jersey, Delaware, Maryland, Virginia, North Carolina, South Carolina, Georgia, Florida, and the following counties of the State of New York: Cayuga, Tompkins, Chemung, and all counties east and north thereof. Also the following counties in the State of Pennsylvania: Bradford, Sullivan, Columbia, Montour, Northumberland, Dauphin, York, and all counties east thereof.

Appalachian No. 1: The State of West Virginia and those parts of the States of Pennsylvania and New York not included in the East Coast District.

Sub-PAD District I

New England (PADD 1X): The States of Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.

Central Atlantic (PADD 1Y): The District of Columbia and the States of Delaware, Maryland, New Jersey, New York, and Pennsylvania.

Lower Atlantic (PADD 1Z): The States of Florida, Georgia, North Carolina, South Carolina, Virginia, and West Virginia.

PAD District II

Indiana-Illinois-Kentucky: The States of Indiana, Illinois, Kentucky, Tennessee, Michigan, and Ohio.

Minnesota-Wisconsin-North and South Dakota: The States of Minnesota, Wisconsin, North Dakota, and South Dakota.

Oklahoma-Kansas-Missouri: The States of Oklahoma, Kansas, Missouri, Nebraska, and Iowa.

PAD District III

Texas Inland: The State of Texas except the Texas Gulf Coast District.

Texas Gulf Coast: The following counties of the State of Texas: Newton, Orange, Jefferson, Jasper, Tyler, Hardin, Liberty, Chambers, Polk, San Jacinto, Montgomery, Harris, Galveston, Waller, Fort Bend, Brazoria, Wharton, Matagorda, Jackson, Victoria, Calhoun, Refugio, Aransas, San Patricio, Nucces, Kleberg, Kenedy, Willacy, and Cameron.

Louisiana Gulf Coast: The following parishes of the State of Louisiana: Vernon, Rapides, Avoyelles, Pointe Coupee, West Feliciana, East Feliciana, Saint Helena, Tangipahoa, Washington, and all parishes south thereof. Also the following counties of the State of Mississippi: Pearl River, Stone, George, Hancock, Harrison, and Jackson. Also the following counties of the State of Alabama: Mobile and Baldwin.

North Louisiana-Arkansas: The State of Arkansas and those parts of the States of Louisiana, Mississippi, and Alabama not included in the Louisiana Gulf Coast District.

New Mexico: The State of New Mexico.

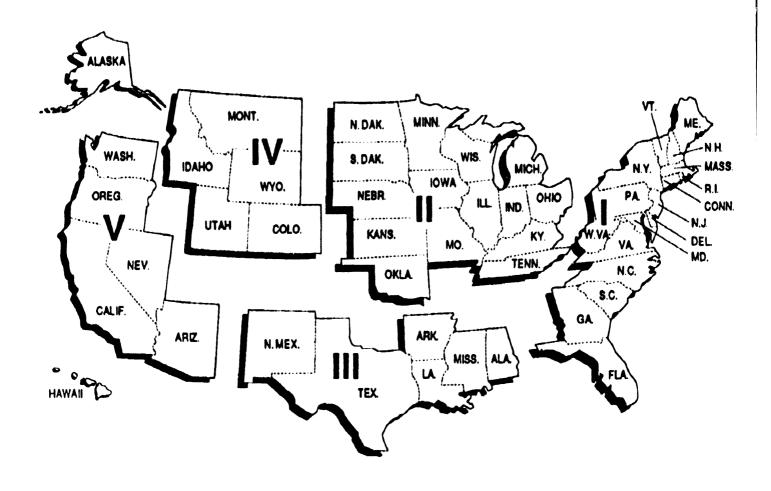
PAD District IV

Rocky Mountain: The States of Montana, Idaho, Wyoming, Utah, and Colorado.

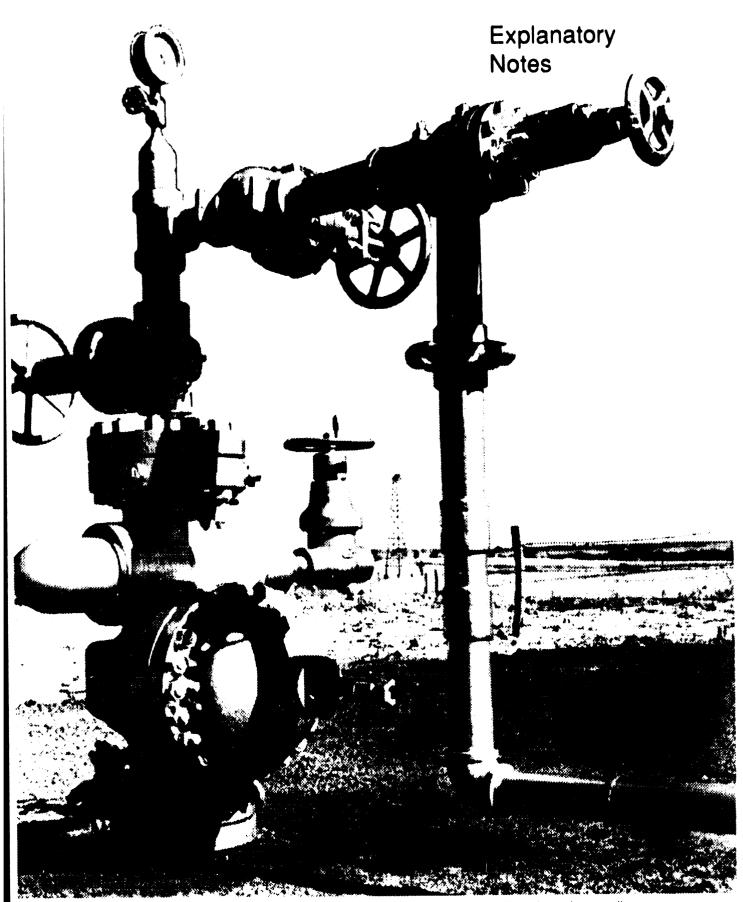
PAD District V

West Coast: The States of Washington, Oregon, California, Nevada, Arizona, Alaska, and Hawaii.

Petroleum Administration for Defense (PAD) Districts



Appendix B



The cluster of pipes and valves that control the flow of oil at the mouth of an oil well is what oilmen call a "Christmas Tree."

Appendix B

Explanatory Notes

The following Explanatory Notes are provided to assist in understanding and interpreting the data presented in this publication.

• Note 1.	Distillate Fuel Oil
• Note 2.	Propane
• Note 3.	Figures

Note 4. Natural GasNote 5. Prices

• Note 6. Provisions Regarding Confidentiality

of Information

Note 1. Distillate Fuel Oil

Data on distillate fuel oil are collected within two time frames: weekly and monthly. Data from the Weekly Petroleum Supply Reporting System (WPSRS) are used to develop estimates for distillate fuel oil on a weekly basis. The forms that comprise the WPSRS are:

Form Number	Name
EIA-800	Weekly Refinery Report
EIA-801	Weekly Bulk Terminal Report
EIA-802	Weekly Product Pipeline Report
EIA-803	Weekly Crude Oil Report
FIA-804	Weekly Imports Report

Monthly data are extracted from selected surveys in the Monthly Petroleum Supply Reporting System (MPSRS). The forms that comprise the MPSRS are:

Form Number	Name	
EIA-810	Monthly Refinery Report	
EIA-811	Monthly Bulk Terminal Report	
EIA-812	Monthly Product Pipeline Report	
EIA-814	Monthly Imports Report	
EIA-816	Monthly Natural Gas Liquids Report	

Refer to Explanatory Note 2 in the *Petroleum Supply Monthly* for a detailed discussion of the MPSRS.

Sample Frame

A sample of all petroleum companies report weekly data to the Energy Information Administration (EIA) on crude oil and petroleum product stocks, refinery inputs and production, and crude oil and petroleum product imports. The sample of companies that report weekly is selected from the universe of companies that report on the comparable monthly surveys.

Sampling

The sampling procedure used for the weekly system is the cut-off method. In the cut-off method, companies are ranked from largest to smallest on the basis of the quantities reported during some previous period. Companies are chosen for the sample beginning with the largest and adding companies until the total sample covers about 90 percent of the total, for each item and each geographic region for which weekly data are published.

Collection Methods

Data are collected by mail, mailgram, telephone, Telex, Telefax, and electronic transmission on a weekly basis. All canvassed firms must file by 5 p.m. on the Monday following the close of the report week, 7 a.m. Friday.

Resubmissions

During the processing week, company corrections of the prior week's data are also entered. This revised data is used to edit the current processing week's data.

Estimation and imputation

After the company reports have been checked and entered into the weekly data base, explicit imputation is done for companies which have not yet responded. The imputed values are exponentially smoothed means of recent weekly reported values for this specific company. The imputed values are treated like reported values in the estimation procedure, which calculates ratio estimates of the weekly totals. First, the current week's data for a given product reported by companies in a geographic region are summed. (Call this weekly sum, W_{s.}) Next, the most recent month's data for the product reported by those same companies are summed. (Call this monthly sum, M_{s.}) Finally, let M_s be the sum of most recent month's data for the product as reported by all companies. Then, the current week's ratio estimate for that product for all companies, W_s, is given by:

$$W_t = \frac{M_t}{M_s} + W_s$$

This procedure is used directly to estimate total weekly inputs to refineries and production. To estimate stocks of finished products, the preceding procedure is followed separately for refineries, bulk terminals, and pipelines. Total estimates are formed by summing over establishment types.

Weekly imports data are highly variable on a company-by-company basis or a week-by-week basis. Therefore, an exponentially smoothed ratio has been developed. The estimate of total weekly imports is the product of the smoothed ratio and the sum of the weekly reported values and imputed values.

Response Rates

The response rate as of the day after the filing deadline is about 80 percent for the EIA-800, 75 percent for the EIA-801, 95 percent for the EIA-802, 80 percent for the EIA-803, and greater than 95 percent for the EIA-804. However, more forms are received the next day, bringing the final response rates up. Late respondents are contacted by telephone. Nearly all of the major companies report on time. The nonresponse rate for the published estimate is usually between 1 percent and 2 percent.

Note 2. Propane

The Form EIA-807, "Propane Telephone Survey," was implemented in April 1990 as the result of the 1989 propane supply disruption. The hardships experienced by propane users during the December 1989 cold-snap in the Northeast and Mid-Continent areas made the need for timely supply information imperative. During 1990, propane data was collected and provided to Congress and others upon request. Because of the overwhelming demand for continuous monitoring of propane supply, the Winter Fuels Report was implemented in September 1990. This report publishes weekly data on propane as well as other heating fuels.

Respondent Frame

The Form EIA-807, "Propane Telephone Survey," collects data on production, stocks, and imports of propane. The sample of companies that report weekly is selected from the universe of companies that report on the comparable monthly surveys. These surveys are:

Form Number	Name
EIA-810	Monthly Refinery Report
EIA-811	Monthly Bulk Terminal Report
EIA-812	Monthly Product Pipeline Report
EIA-814	Monthly Imports Report
EIA-816	Monthly Natural Gas Liquids Report

Sampling

The sampling procedure used for the EIA-807 is the cut-off method. In the cut-off method, facilities are ranked from largest to smallest on the basis of quantities reported for propane production, imports, and stocks. Companies are chosen for the sample beginning with the largest and adding companies until the total sample covers about 90 percent of the total for each item and each geographic region (Petroleum Administration for

Defense Districts I (IX, IY, IZ), II and III) for which data are published. A bench mark factor is used to capture the remaining 10 percent of the propane industry.

The sample frame for the EIA-807 is re-evaluated on an annual basis to assure 90 percent coverage of the total for each item collected and each geographic region. However, when necessary the sample frame is updated more frequently.

Collection Methods

Data are collected by telephone or facsimile. No written confirmation of the data submission is necessary. For weekly data collections, telephone calls to the respondents start on the Monday following the end of the report period. For monthly data collections, telephone calls to respondents start on the third working day following the end of the report period.

Resubmissions

Resubmissions are any changes to originally submitted data. A determination is made on whether to process the resubmissions based on the magnitude of the revision. Cell entries on publication tables are marked with an "R" for revised.

Revision Error

Summary information on the revision error between preliminary weekly data and final monthly data will be incorporated in the feature article in the *Petroleum Supply Monthly* entitled, "Timeliness and Accuracy of Petroleum Supply Data." The last article was published in the August 1993 issue and evaluated the accuracy of the data for 1992 compared with previous years.

From October 1992 through March 1993, the difference between preliminary and final data for propane stocks remained within six percent. No difference in preliminary and final data was found for imports and production of propane.

Estimation and Imputation

After the company reports have been checked and entered into the EIA-807 data base, imputation is done for companies which have not yet responded. The imputed values are equal to the latest reported data for a particular reporting unit. Response rates are over 90 percent so very little imputation is done.

After the data files have been edited and corrected, aggregation is done for net production, imports, and stocks by each geographic region. Estimation factors, which were derived from 1992 reported data, are then applied to each cell to generate published estimates.

Response Rate

The response rate is generally 95 to 100 percent. Chronic nonrespondents and late filing respondents are contacted by telephone and reminded of their requirement to report. Nearly-

all of the major companies report on time. The nonresponse rate for the published estimate is usually between 1 percent and 2 percent.

Note 3. Figures

The national inventory (stocks) graphs for distillate fuel oil and propane include features to assist in comparing current inventory levels with past inventory levels and with judgments of critical levels. Methods used in developing the average inventory levels and minimum operating levels are described below.

Average Inventory Levels

The charts displaying inventory levels of distillate fuel oil and propane (Figures 1 through 14) provide the reader with actual inventory data compared to an "average range" for the most recent 3-year period running from January through December or from July through June. The ranges also reflect seasonal variation for the past 7 years.

The seasonal factors, which determine the shape of the upper and lower curves, are estimated with a seasonal adjustment technique developed at the Bureau of Census (Census X-11). The seasonal factors are assumed to be stable (i.e., unchanging from year to year) and additive (i.e., the series is deseasonalized by subtracting the seasonal factor for the appropriate month from the reported inventory levels.) The intent of deseasonalization is to remove only annual variation from the data. Thus, deseasonalized series would contain the same trends, cyclical components, and irregularities as the original data. The seasonal factors are updated annually in October, using the 7 most recent years' final monthly data.

The seasonal factors are used to deseasonalize data from the most recent 3-year period (January-December or July-June). The average of the deseasonalized 36-month series determines the midpoint of the "average range." The standard deviation of the deseasonalized 36 months is then calculated after adjusting for extreme data points. The upper curve of the "average range" is defined as average plus the seasonal factors plus the standard deviation. The lower curve is defined as the average plus the seasonal factors minus the standard deviation. Thus, the width of the "average range" is twice the standard deviation. The ranges are updated every 6 months in April and October.

The lines labeled "observed minimum" on the stock graphs are the lowest inventory levels observed during the most recent 36-month period as published in the *Petroleum Supply Monthly*.

Note 4. Natural Gas

Data contained in tables in the Natural Gas Section are from tables published in the *Natural Gas Monthly*. Data are collected from the following surveys:

Form EIA-191

The Form EIA-191, "Underground Natural Gas Storage Report," collects storage data by State, field, and reservoir. There are approximately 400 operating reservoirs in the United States, owned by 97 companies. It is a multipart form that reports the quantities of gas in storage, injections and withdrawals, and the location (State and county) and capacity of underground storage reservoirs along with peak day sendout during the reporting period.

The response rate as of the filing deadline is approximately 20 percent. Data from the remaining 80 percent of respondents are received in writing and/or by telephone within 3 to 4 days after the filing deadline. All data supplied by telephone are subsequently filed in writing, generally within 15 days of the filing deadline. The final response rate is 100 percent.

Form FERC-11

The Form FERC-11, "Natural Gas Pipeline Company Monthly Statement," is a monthly regulatory reporting form. Form FERC-11 is filed by major interstate natural gas pipeline companies whose combined sales for resale and gas transported interstate or stored for a fee exceeded 50 billion cubic feet in the previous calendar year. Approximately 50 pipeline companies report data on Form FERC-11. Information is collected monthly by mail. Historically, the response rate has been 100 percent.

Form FPC-14

The Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas," is filed annually by each organization or individual having authorization to import and export natural gas regardless of whether any imports or exports took place during the reporting year. In 1992, 375 companies met the reporting criteria, only 143 reported imports or exports of natural gas.

Form EIA-857

The Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers," is a mandatory report. Data collected on the Form EIA-857 include both price and volume data and are considered proprietary. A sample of 391 natural gas companies including interstate pipelines, intrastate pipelines, and local distribution companies report on the Form EIA-857. The sample is selected independently for each of the 50 States and the District of Columbia.

Form EIA-176

The Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition," survey universe includes approximately 1,800 companies and 2,096 responses. These companies are interstate and intrastate natural gas pipeline companies, investor and municipally owned natural gas distributors, synthetic natural gas plant operators, and field, well,

or processing plant operators that deliver natural gas directly to consumers (including their own industrial facilities) and/or that transport gas to, across, or from a State border through field or gathering facilities.

Note 5. Prices

The residential No. 2 heating oil and propane prices (excluding taxes) for a given State are based on the results of telephone surveys of a sample of marketers and refiners. Data are collected under the Energy Information Administration (EIA) State Heating Oil and Propane Program.

Sampling Methodology and Estimation Procedures

To estimate aggregate propane and No. 2 heating oil price data for a State, the sample weight and volume sales data were applied to the reported price, summed and divided by the sum of the weighted volume:

sample weight, v = volume, p = price, i = respondent, $n_j = sample size of stratum j$, and s = number of strata, to obtain a volume weighted price.

The volume used for No. 2 heating oil is the company's residential sales volume for 1988 as reported on the EIA-863 "Petroleum Product Sales Identification Survey." The volume used for propane is the company's residential propane sales volume for the previous year obtained by Form EIA-877, "Winter Heating Fuels Telephone Survey," during the first pricing period.

These fixed volume weights indicate the relative importance of the individual companies according to the size of their sales. Therefore, changes in the average price across time reflect only the change in the price being offered by the company, and not changes in the amounts sold. Price indexes constructed using fixed volumes, such as these annual sales, are known as Laspeyres Indexes. The alternative method of weighting, current weights, would require each company to report the number of gallons sold at the reported price each pricing period. This method is more burdensome on the companies and reflects prices over a period of time as compared to a point in time. Therefore, the calculation of average prices tends to lag behind the reference period. Indexes constructed from current period weights are known as Paasch Indexes.

Both methods of weighting are correct; they do, however, vary when current weights are changing. It has been argued that during periods of change, the Laspeyres method has a tendency to overestimate price changes, while the Paasche method tends to underestimate price changes.

In this survey, it is expected that the relative change in volumes monthly is small. Residential sales are not bulk in nature and do not tend to reflect discounts on price for large volume purchases. Absolute changes in volume within a year's time would more likely reflect demand and be consistent across companies within a geographical area.

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-877 survey is one of a large number of samples of equal size which could have been selected from the sampling frame using the same sample design. Each of these samples would produce a different estimate. If the estimates were averaged over all possible samples, the result would be the same as the estimate derived from a census of the sampling frame. The sampling error is a measure of variability among the estimates from all possible samples and, thus, is a measure of the precision with which an estimate from a particular sample approximates the results of a census.

Nonsampling errors can be attributed to many sources: (1) inability to obtain complete information about all cases in the sample (i.e., nonresponse), (2) response errors, (3) definitional difficulties, (4) differences in the interpretation of questions, (5) mistakes in recording or coding the data obtained, and (6) other errors of collection, response, coverage, and estimation for missing data. These nonsampling errors also occur in complete censuses.

Although no direct measurement of the biases due to nonsampling errors can be obtained, precautionary steps were taken in all phases of the frame development and data collection, processing, and tabulation processes, in an effort to minimize their influence.

Data in Tables B1 and B2 are based on survey data which are subject to sampling errors. Coefficients of variation, which are estimates of sampling errors, are presented for the propane and No. 2 heating oil prices in the following tables for the 1993/94 survey. The coefficients of variation (CV) were estimated by:

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

where:

$$VAR(\hat{P}) = \frac{1}{\hat{V}^2} \sum_{k} N_k^2 (\frac{1 - f_k}{n_k}) S_k^2$$

$$S_k^2 = S_{ka}^2 + \hat{P}^2 S_{kv}^2 - 2\hat{P} S_{kav}^2$$

for heating old:

$$S_{kq}^{2} = \frac{\sum_{i=1}^{n_{k}} (P_{ik}V_{ik} - \overline{P_{k}V_{k}})^{2}}{n_{k} - 1}$$

$$S_{kv}^2 = \frac{\sum_{i=1}^{n_k} (V_{ik} - \bar{V}_k)^2}{n_{k-1}}$$

$$S_{kqv}^{2} = \frac{\sum_{i=1}^{n_{k}} (P_{ik}V_{ik} - \overline{P_{k}V_{k}})(V_{ik} - \overline{V_{k}})}{n_{k} - 1}$$

out for propane:

$$S_{kq}^{2} = \frac{\sum_{i=1}^{n_{k}-1} (P_{ik}V_{ik} - P_{i+1,k}V_{i+1,k})^{2}}{2(n_{k}-1)}$$

$$S_{k}^{2} = \frac{\sum_{i=1}^{n_{k}-1} (V_{ik} - V_{i+1,k})^{2}}{2(n_{k}-1)}$$

$$S_{kqv}^{2} = \frac{\sum_{i=1}^{n_{k}-1} (P_{ik}V_{ik} - P_{i+1,k}V_{i+1,k})(V_{ik} - V_{i+1,k})}{2(n_{k}-1)}$$

 n_k = number of respondents in stratum k

 N_k = number of population units in stratum k

 V_{ik} = reported volume for unit i in stratum k

 \overline{V}_k = average volume for sample units in stratum k

 $P_{ik}V_{ik}$ = reported revenue for unit i in stratum k

 $\overline{P_k V_k}$ = average revenue for sample units in stratum k

P = weighted average price for each State

Residential No. 2 Heating Oil

For the No. 2 heating oil price data, a sample design similar to that used for the EIA Form EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report," sample design was used. The sampling frame was an extract of approximately 11,000 companies from the Form EIA-863, "Petroleum Product Sales Survey," conducted in 1989 and containing 1988 sales volume information. A one-way stratified sample design using No. 2 residential distillate frame sales volumes by State, for each of the 27 States to be sampled, was used. Stratum boundaries were determined by the Dalenius-Hodges procedure. Sample weights were calculated as the inverse of the probability (N/n). Certainty strata were established based on sales volumes and the number of States in which the company has sales. The expected price coefficient of variation is one to two percent.

Residential Propane

Since no volume sales information existed to predetermine the volume sales of propane dealers, two strata for propane dealers was used. A certainty stratum of the known, large, multi-State dealers was created. These companies were identified using establishment lists obtained in deriving the frame. All other dealers were in a second stratum and a random sample from this stratum was selected. Sample weights were calculated as the inverse of the probability (N/n). The name and address list sampling frame was constructed by first extracting from the Form EIA-863, "Petroleum Product Sales Identification Survey," companies who marked the box on the survey indicating they sell propane. This was augmented by companies on the Office of Oil and Gas Master File who have the words propane or liquefied petroleum gas (LPG) in their name. In addition, companies who file the Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and report retail propane or the Form EIA-782C, "Monthly Report of Petroleum Products Sold into States for Consumption," and report propane, as well as companies that were active on the Form EIA-174, "Liquefied Petroleum Gas Survey," prior to its discontinuance, were included.

After unduplicating these companies, the initial frame file contained approximately 5,100 companies. Additional companies were obtained from an extract of a current Dun and Bradstreet file of SIC code 5984(9903), primary and secondary retail propane dealers, containing 3,283 names and addresses. Removal of duplicates within this file and between it and the initial frame file was performed using tailored automated match programs with manual review, and resulted in approximately 1,000 potential adds to the initial file. Similarly, additional names and addresses were furnished by industry associations and journals and by State Energy Offices, yielding another 7,429 Again, removal of duplicates through the match programs yielded an approximate potential add of 900 companies. Another 800 companies were identified as residing on the Master File but not previously selected as potential propane sellers. Further matching, merging and unduplicating reduced the final total frame count to approximately 6,000 companies. Reseller/retailer propane price data were unavailable to calculate a target coefficient of variation. However, it was expected that residential propane price variances were similar to heating oil. Increases in variances were expected as a result of lack of detailed stratification, but were only expected to reach three to four percent.

Revision Error

The numbers in Tables B3 and B4 display revision errors for heating oil and propane prices collected during the 1992/93 survey season. Numbers may be revised in the publication based on data received late or receipt of revised data. Numbers are published as preliminary and final. The difference between preliminary and final data is called the revision error.

Response Rate

Response rates are generally 95 to 100 percent.

Table B1. Coefficients of Variation for Residential Heating Oil Prices by Region and State (Cents per Gallon)

	1993/94 Heating Season											
Region/State	10/04	10/18	11/01	11/15	12/06	12/20	01/03	01/17	02/07	02/21	03/07	03/21
Average	0.00	0.01	0.01						tions on same or an in-		•	
East Coast (PADD I)	0.00	0.01	0.01									
New England (PADD IX)	0.00	0.01	0.01									
Connecticut	0.00	0.01	0.01									
Maine	0.00	0.00	0.01									
Massachusetts	0.00	0.01	0.01									
New Hampshire	0.00	0.01	0.01									
Rhode Island	0.00	0.01	0.01									
Vermont	0.00	0.02	0.02									
Central Atlantic (PADD IY)	0.00	0.02	0.02									
Delaware	0.00	0.01	0.01									
District of Columbia	0.00	0.00	0.00									
Maryland	0.00	0.01	0.01									
New Jersey	0.00	0.02	0.02									
New York	0.00	0.03	0.03									
Pennsylvania	0.00	0.02	0.02									
Lower Atlantic (PADD IZ)	0.00	0.01	0.01									
North Carolina	0.00	0.01	0.01									
Virginia	0.00	0.01	0.01									
Midwest (PADD II)	0.00	0.01	0.01									
Indiana	0.00	0.01	0.02									
lowa	0.00	0.00	0.01									
Michigan	0.00	0.01	0.01									
Minnesota	0.00	0.02	0.02									
Ohio	0.00	0.01	0.01									
Wisconsin	0.00	0.01	0.01									

Table B2. Coefficients of Variation for Residential Propane Prices by Region and State (Cents per Gallon)

		1993/94 Heating Season											
Region/State	10/04	10/18	11/01	11/15	12/06	12/20	01/03	01/17	02/07	02/21	03/07	03/21	
Average	0.00	0.01	0.01	i, .,	4					the time of the second		.	
East Coast (PADD I)	0.00	0.01	0.01										
New England (PADD IX)	0.00	0.01	0.02										
Connecticut	0.00	0.03	0.03										
Maine	0.00	0.05	0.05										
Massachusetts	0.00	0.03	0.03										
New Hampshire	0.00	0.03	0.03										
Rhode Island	0.00	0.01	0.01										
Vermont	0.00	0.03	0.03										
Central Atlantic (PADD I	Y) 0.00	0.02	0.02										
Delaware	0.00	0.01	0.01										
Maryland	0.00	0.01	0.01										
New Jersey	0.00	0.01	0.01										
New York	0.00	0.03	0.04										
Pennsylvania	0.00	0.05	0.05										
Lower Atlantic (PADD IZ	0.00	0.02	0.01										
North Carolina	0.00	0.02	0.02										
Virginia	0.00	0.03	0.03										
Midwest (PADD II)	0.00	0.01	0.01										
Indiana	0.00	0.02	0.02										
lowa	0.00	0.02	0.02										
Kansas	0.00	0.03	0.03										
Michigan	0.00	0.02	0.02										
Minnesota	0.00	0.02	0.02										
Missouri	0.00	0.02	0.02										
North Dakota	0.00	0.02	0.02										
Ohio	0.00	0.04	0.04										
South Dakota	0.00	0.01	0.01										
Wisconsin	0.00	0.01	0.01										

Table B3. Revision Rates for Residential Heating Oil Prices by Region and State (Cents per Gallon)

	1992/93 Heating Season											
Region/State	10/05	10/19	11/02	11/16	12/07	12/21	01/04	01/18	02/01	02/15	03/01	03/15
Average	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
East Coast (PADD I)	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
New England (PADD IX)	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
Connecticut	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Maine	0.0	0.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Massachusetts	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
New Hampshire	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.3	0.0	0.0	0.0
Rhode Island	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vermont	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Central Atlantic (PADD IY)	0,0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delaware	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
District of Columbia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Maryland	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
New Jersey	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
New York	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pennsylvania	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Lower Atlantic (PADD IZ)	0.0	1.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
North Carolina	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Virginia	0.0	2.6	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Midwest (PADD II)	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Indiana	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
lowa	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Michigan	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Minnesota	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Ohio	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wisconsin	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table B4. Revision Rates for Residential Propane Prices by Region and State (Cents per Gallon)

1	1992/93 Heating Season										
Region/State	10/05	10/19	11/02	11/16	12/07	12/21	01/04	01/11			
Average	0.0	0,2	0.2	0.0	0.1	0.0	0.0	0.0			
East Coast (PADD I)	0.0	0.4	0.1	0.1	0.0	0.0	0.0	0.0			
New England (PADD IX) Connecticut Maine Massachusetts New Hampshire Rhode Island Vermont	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.1 0.0 0.0 0.0	0.0 0.0 0.4 0.0 0.0 0.0	0.4 0.0 0.1 0.0 0.1 0.0 1.9	0.0 0.0 0.0 0.1 0.0 0.6 0.0	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0			
Central Atlantic (PADD IY) Delaware Maryland New Jersey New York Pennsylvania	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 1.5 2.2 4.8	0.3 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.1 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0			
Lower Atlantic (PADD IZ) North Carolina Virginia	0.0 0.0 0.0	0.0 0.0 0.2	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.1 0.1 0.1	0.0 0.0 0.0	0.0 0.0 0.0			
Midwest (PADD II) Indiana lowa Kansas Michigan Minnesota Missouri North Dakota Ohio South Dakota Wisconsin	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.1 0.0 0.0 1.0 0.0 0.1 0.0 0.0 3.3 0.0	0.2 0.1 0.0 1.1 0.1 0.0 0.6 0.0 0.0 0.6	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0			

: :	1992/93 Heating Season											
Region/State	01/18	01/25	02/01	02/15	03/01	03/15	04/05	04/19				
Average	0.1	0.0	0.0	0.1	0.2	0.0	0.1	0.0				
East Coast (PADD I)	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0				
New England (PADD IX) Connecticut Maine Massachusetts New Hampshire Rhode Island Vermont	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.1 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	0.1 0.8 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.1 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 1.3 0.0	0.0 0.0 0.0 0.0 0.0 0.0				
Central Atlantic (PADD IY) Delaware Maryland New Jersey New York Pennsylvania	0.1 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.1	0.0 0.0 0.0 0.0 0.0 0.0	1.4 0.0 0.0 0.0 3.9 0.0	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.2 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0				
Lower Atlantic (PADD IZ) North Carolina Virginia	0.0 0.0 0.0	0.0 0.1 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.1	0.0 0.0 0.0	0.0 0.0 0.2	0.0 0.0 0.0				
Midwest (PADD II) Indiana Iowa Kansas Michigan Minnesota Missouri North Dakota Ohio South Dakota Wisconsin	0.1 1.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.1 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.1	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.1 2.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.6 2.5	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0				

Note: • Due to significant wholesale prices increases between January 4 and January 11, 1993, stemming from low propane stocks in the Midwest, EIA initiated weekly collection of State propane prices to monitor prices at the retail level. • Data in table appear in absolute values. Source: Based on data collected by State Energy Offices.

Note 6. Provisions Regarding Confidentiality of Information

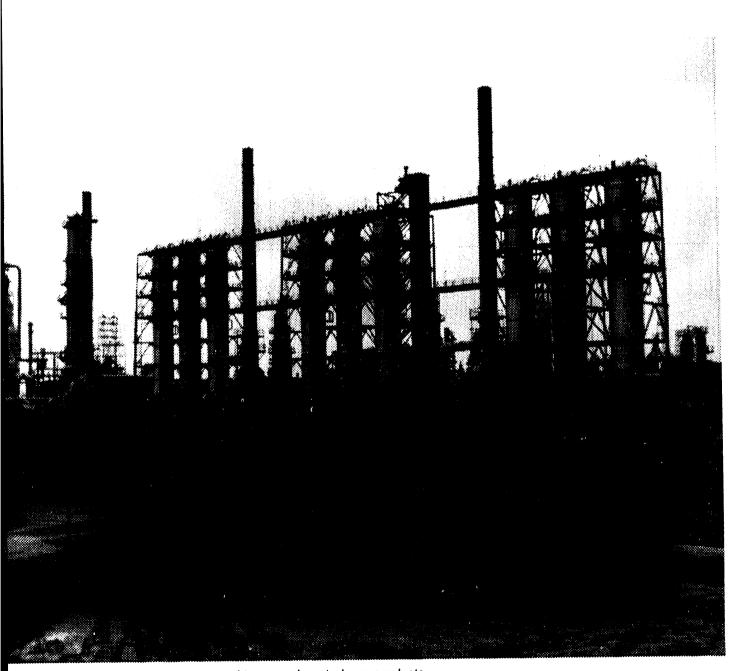
The Office of Legal Counsel of the Department of Justice concluded on March 20, 1991, that the Federal Energy Administration Act requires the Energy Information Administration to provide company-specific data to the Department of Justice, or to any Federal agency when requested for official use, which may include enforcement of Federal law. The information contained on this form may also be made available, upon request, to another component of the Department of Energy (DOE), to any Committee of Congress, the General Accounting Office, or other Congressional agencies authorized by law to receive such information. A court of competent jurisdiction may obtain this information in response to an order.

The information contained on this form will be kept confidential and not disclosed to the public to the extent that it satisfies the criteria for exemption under the Freedom of Information Act (FOIA), 5 U.S.C. section 552, the DOE regulations, 10 C.F.R.

section 1004.11, implementing the FOIA, and the Trade Secrets ACT, 18 U.S.C. section 1905.

Upon receipt of a request for this information under the FOIA, the DOE shall make a final determination whether the information is exempt from disclosure in accordance with the procedures and criteria provided in the regulations. To assist us in this determination, respondents should demonstrate to the DOE that, for example, their information contains trade secrets or commercial or financial information whose release would be likely to cause substantial harm to their company's competitive position. A letter accompanying the submission that explains (on an element-by-element basis) the reasons why the information would be likely to cause the respondent substantial competitive harm if released to the public would aid in this determination. A new justification does not need to be provided each time information is submitted on the form, if the company has previously submitted a justification for that information and the justification has not changed.

Glossary



Downstream processing units are used to upgrade petroleum products.

Definitions of Petroleum Products and Other Terms

Balancing Item. Represents differences between the sum of the components of natural gas supply and the sum of the components of natural gas disposition. These differences may be due to quantities lost or to the effects of data reporting problems. Reporting problems include differences due to the net result of conversions of flow data metered at varying temperatures and pressure bases and converting to a standard temperature and pressure base; the effect of variations in company accounting and billing practices; differences between billing cycle and calendar period time frames; and imbalances resulting from the merger of data reporting systems that vary in scope, format, definitions, and type of respondents.

Barrel. A volumetric unit of measure for crude oil and petroleum products equivalent to 42 U.S. gallons. This measure is used in most statistical reports.

Bulk Terminal. A facility used primarily for the storage and/or marketing of petroleum products which has a total bulk storage capacity of 50,000 barrels or more and/or receives petroleum products by tanker, barge, or pipeline.

Commercial Consumption. Gas used by nonmanufacturing establishments or agencies primarily engaged in the sale of goods or services. Included are such establishments as hotels, restaurants, wholesale and retail stores and other service enterprises; gas used by establishments engaged in agriculture, forestry, and fisheries; and gas used by local, State, and Federal agencies engaged in nonmanufacturing activities.

Degree-Day Normals. Simple arithmetic averages of monthly or annual degree-days over a long period of time (usually the 30-year period 1951-1980). These may be simple degree-day normals or population-weighted degree-day normals.

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; No. 1, No. 2, and No. 4 diesel fuels. Distillate fuel oil is reported in the following sulfur categories: 0.05% sulfur and under and Greater than 0.05% sulfur.

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 with distillation temperatures of 420° F at the 10-percent recovery point and 550° F at the 90-percent recovery point, and kinematic viscosities between 1.4 and 2.2 centistokes at 100° F.

No. 2 Distillate. A petroleum distillate which meets the specifications for No. 2 heating 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 with distillation temperatures of 540° and 640° F at the 90-percent recovery point, and kinematic viscosities between 2.0 and 4.3 centistokes at 100° F.

No. 4 Fuel Oil. A fuel oil for commercial burner installations not equipped with 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 D396 or Federal Specification VV-F-815C; with minimum and maximum kinematic viscosities between 5.8 and 26.4 centistokes at 100° F. Also included is No. 4-D, a fuel oil for low and medium-speed diesel engines that conforms to ASTM Specification D975.

Dry Natural Gas Production. Marketed production less extraction loss.

Electric Utility Consumption. Gas used as fuel in electric utility plants.

Ending Stocks. Primary stocks of crude oil and petroleum products held in storage as of the end of a specific report period. For the monthly report period this is as of 12 midnight on the last day of the month. For the weekly report period, 7 a.m. each Friday. Primary stocks include crude oil or petroleum products held in storage at (or in) leases, refineries, natural gas processing plants, pipelines, tank farms, and bulk terminals that can store at least 50,000 barrels of petroleum products or that can receive petroleum products by tanker, barge, or pipeline. Crude oil that is in-transit by water from Alaska, or that is stored on Federal leases or in the Strategic Petroleum Reserve is included. Primary stocks exclude stocks of foreign origin that are held in bonded warehouse storage.

Exports. Shipments of goods from the 50 States and the District of Columbia to foreign countries, Puerto Rico, the Virgin Islands, and other U.S. possessions and territories.

Heating Degree-Days. The number of degrees per day the daily average temperature is below 65 degrees F. The daily average temperature is the mean of the maximum and minimum temperature for a 24-hour period.

Imports. Receipts of goods into the 50 States and the District of Columbia from foreign countries, Puerto Rico, the Virgin Islands, and other U.S. possessions and territories.

Industrial Consumption. Natural gas used by manufacturing and mining establishments for heat, power, and chemical feedstock.

Liquefied Natural Gas (LNG). Natural gas (primarily methane) that has been liquefied by reducing its temperature to minus 260 degrees Fahrenheit at atmospheric pressure.

Natural Gas. A mixture of hydrocarbon compounds and small quantities of various nonhydrocarbons existing in the gaseous

phase or in solution with crude oil in natural underground reservoirs at reservoir conditions.

Natural Gas Processing Plant. A gas processing plant is a facility designed (1) to achieve the recovery of natural gas liquids from the stream of natural gas which may or may not have been processed through lease separators and field facilities, and (2) to control the quality of the natural gas to be marketed. Cycling plants are classified as gas processing plants.

Net Production. Petroleum products produced at a refinery, natural gas processing plant, or blending plant. Published production of these products equals production minus input. Negative production will occur when the amount of a product produced during the month is less than the amount of that same product that is reprocessed (input) or reclassified to become another product during the same month.

Pipeline. Crude oil and product pipelines used to transport crude oil and petroleum products respectively, (including interstate, intrastate, and intracompany pipelines) within the 50 States and the District of Columbia.

Population-Weighted Degree-Days. Heating or cooling degree-days weighted by the population of the area in which the compute degree-days are recorded. To national population-weighted degree-days, the Nation is divided into nine Census regions comprised of from three to eight States which are assigned weights based on the ratio of the population of the region to the total population of the Nation. Degree-day readings for each region are multiplied by the corresponding population weight for each region and these products are then summed to arrive at the national population weighted degree-day figure.

Product Supplied. Approximately represents consumption of petroleum products because it measures the disappearance of these products from primary sources, i.e., refineries, natural gas processing plants, blending plants, pipelines, and bulk terminals. In general, product supplied of each product in any given period is computed as follows: field production, plus refinery production, plus imports, plus unaccounted for crude oil, (plus net receipts when calculated on a PAD District basis), minus stock change, minus crude oil losses, minus refinery inputs, minus exports.

Propane (C3H8). A normally gaseous straight-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of -43.67 degrees F. It is extracted from natural gas or refinery gas streams. It includes all products designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial propane and HD. propane.

Propylene (C3H6). An olefinic hydrocarbon recovered from refinery processes or petrochemical processes.

Refinery. An installation that manufactures finished petroleum products from crude oil, unfinished oils, natural gas liquids, other hydrocarbons, and alcohol.

Report Dates. The official report dates for the residential and wholesale price surveys are the first and third Mondays. The official day for the primary stock survey is 7 a.m. on the Friday preceding the report date.

Residential Consumption. Gas used in private dwelling, including apartments, for heating, air conditioning, cooking, water heating, and other household uses.

Residential Heating Oil Price. The price charged for home delivery of No. 2 heating oil, exclusive of any discounts such as those for prompt cash payment. Prices do not include taxes paid by the consumer.

Residential Propane Price. The "bulk keep full" price for home delivery of consumer grade propane intended for use in space heating, cooking, or hot water heaters in residences.

Storage Additions. Volumes of gas injected or otherwise added to underground natural gas reservoirs or liquefied natural gas storage.

Storage Withdrawals. Volumes of gas withdrawn from underground storage or liquefied natural gas storage.

Supplemental Gaseous Fuels Supplies. Synthetic natural gas, propane-air, coke oven gas, refinery gas, biomass gas, air injected for Btu stabilization, and manufactured gas commingled and distributed with natural gas.

Underground Storage. The storage of natural gas in underground reservoirs at a different location from which it was produced.

Underground Storage Injections. Gas from extraneous sources put into underground storage reservoirs.

Underground Storage Withdrawals. Gas removed from underground storage reservoirs.

United States. For the purpose of this report, the 50 States and the District of Columbia. Data for the Virgin Islands, Puerto Rico, and other U.S. territories are not included in the U.S. Totals.

Wholesale Price. The rack price charged for No. 2 heating oil; that is, the price charged customers who purchase No. 2 heating oil free-on-board at a supplier's terminal and provide their own transportation for the product.

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