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October 1998

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Publications/Sources	Platform	Information
Weekly Petroleum Status Report		
Wednesday 9:00 a.m. (weekly)	EPUB/WWW	Table 1 (U.S. Balance Sheet) and Data Log (Table 14 plus 4-week averages)
Wednesday 5:00 p.m. 6th-12th (monthly)	EPUB/WWW	Table H1 (Petroleum Supply Summary)
Thursday by Noon (weekly)	COGIS	Table 1 (U.S. Balance Sheet) and Table 14 (Most recent 5-weeks)
Thursday by Noon 7th-13th (monthly)	COGIS	Table H1 (Petroleum Supply Summary)
Winter Fuels Report (October through March)		
Wednesday 5:00 p.m. (weekly)	EPUB/WWW	All tables and highlights
Thursday by Noon (weekly)	COGIS	All tables and highlights
Propane Data (April through September)		
Second Wednesday of the month (9:00 a.m.)	EPUB/WWW	Propane Stocks
Petroleum Supply Monthly		
23rd-26th (monthly)	EPUB/WWW	Table H1 (Petroleum Supply Summary) and all Summary Statistics and Detailed Statistics Tables
23rd-26th (monthly)	COGIS	Table H1 (Petroleum Supply Summary), and all Summary Statistics and Detailed Statistics Tables
Petroleum Supply Annual	WWW	All tables and data bases
Oxygenate Data		
15 working days after the report month	EPUB/WWW	Table D1 U.S. Summary Table D2 (Fuel Ethanol Production/Stocks) and Table D3 (MTBE Production/Stocks) Table D4 (MTBE Merchant and Captive)
Imports Data		
7th-10th (preliminary)	EPUB/WWW	Import data by company from the Form EIA-814, "Monthly Imports Report"
23rd-26th (final)		

COGIS= Comprehensive Oil and Gas Information Source
EPUB = Electronic Publication Bulletin Board
WWW = World Wide Web (http://www.eia.doe.gov)

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Crude Oil Watch Data, and Crude Oil Watch Summary
Distillate Watch Data, and Distillate Watch Summary
Motor Gasoline Watch Data, and Motor Gasoline Summary
Propane Watch Data, and Propane Watch Summary (available weekly from October through April, and Monthly otherwise)
Weekly On-Highway Diesel Prices Report
Weekly Retail Gasoline Price Report

If you have any questions on this, please contact Jacob Bournazian by telephone at (202)586-1256 or by E:mail at Jacob.Bournazian@EIA.DOE.GOV.

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The *Petroleum Supply Monthly* is prepared by the Petroleum Division of the Office of Oil and Gas, Energy Information Administration, under the direction of Ronald W. O'Neill.

Questions, comments, and requests for general information concerning the contents of the *Petroleum Supply Monthly* should be referred to **the National Energy Information Center (NEIC) (202)586-8800**. Requests for copies of tables that appear in this publication should also be addressed to the **NEIC**. Technical questions may be addressed to the following specialists:

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Oxygenate Data	Steve Patterson	(202) 586-5994

Additional information on all energy statistics available from the Energy Information Administration may be obtained from the National Energy Information Center (202) 586-8800.

Preface

The *Petroleum Supply Monthly* (PSM) is one of a family of four publications produced by the Petroleum Division within the Energy Information Administration (EIA) reflecting different levels of data timeliness and completeness. The other publications are the *Weekly Petroleum Status Report* (WPSR), the *Winter Fuels Report*, and the *Petroleum Supply Annual* (PSA).

Data presented in the *PSM* describe the supply and disposition of petroleum products in the United States and major U.S. geographic regions. The data series describe production, imports and exports, inter-Petroleum Administration for Defense (PAD) District movements, and inventories by the primary suppliers of petroleum products in the United States (50 States and the District of Columbia). The reporting universe includes those petroleum sectors in primary supply. Included are: petroleum refiners, motor gasoline blenders, operators of natural gas processing plants and fractionators, inter-PAD transporters, importers, and major inventory holders of petroleum products and crude oil. When aggregated, the data reported by these sectors approximately represent the consumption of petroleum products in the United States.

Data presented in the *PSM* are divided into two sections: Summary Statistics and Detailed Statistics.

Summary Statistics

The tables and figures in the Summary Statistics section of the *PSM* present a time series of selected petroleum data on a U.S. level. Most time series include preliminary estimates for one month based on the Weekly Petroleum Supply Reporting System; statistics based on the most recent data from the Monthly Petroleum Supply Reporting System (MPSRS); and statistics published in prior issues of the *PSM* and *PSA*.

Detailed Statistics

The Detailed Statistics tables of the *PSM* present statistics for the most current month available as well as year-to-date. In most cases, the statistics are presented for several geographic areas - - the United States (50 States and the District of Columbia), five PAD Districts, and 12 Refining Districts. At the U.S. and PAD District level, the total volume and the daily rate of activities are presented. The statistics are developed from monthly survey forms submitted by respondents to the EIA and from data provided from other sources.

Appendices

Four appendices are provided to assist in understanding and interpreting the data presented in this publication:

- Appendix A (District Descriptions and Maps) -Geographic aggregations of the 50 States and the District of Columbia into Refining Districts which make up the PAD Districts.
- Appendix B (Detailed Statistics Explanatory Notes) - Information describing data collection, sources, estimation methodology, data quality control procedures, modifications to reporting requirements and interpretation of tables.
- Appendix C (Impact of Resubmissions) - Information on revisions to published statistics caused by resubmission of respondent survey forms.
- Appendix D (EIA-819M, Monthly Oxygenate Telephone Report) -Preliminary information on production and stocks of fuel ethanol and methyl tertiary butyl ether (MTBE) by PAD District. Data are collected from a sample of respondents reporting on the MPSRS surveys. Data are also published in the *WPSR* and are available electronically approximately 15 working days after the end of the month.

Industry terminology and product definitions are listed alphabetically in the Glossary. Final statistics for the data series published in the *PSM*, as well as additional data from the annual refinery and oxygenate capacity surveys are published in the *PSA*. The *PSA* is published approximately five months after the end of the report year.

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The Intricate Puzzle of Oil and Gas "Reserve Growth" ..... July 1997
Propane Market Assessment for Winter 1997-1998 ..... November 1997
Accuracy of Petroleum Supply Data ..... December 1997
EIA Corrects Errors in It's Drilling Activity Estimates Series ..... March 1998

Accuracy of Petroleum Supply Data

by Tammy G. Heppner and Carol L. French

Overview

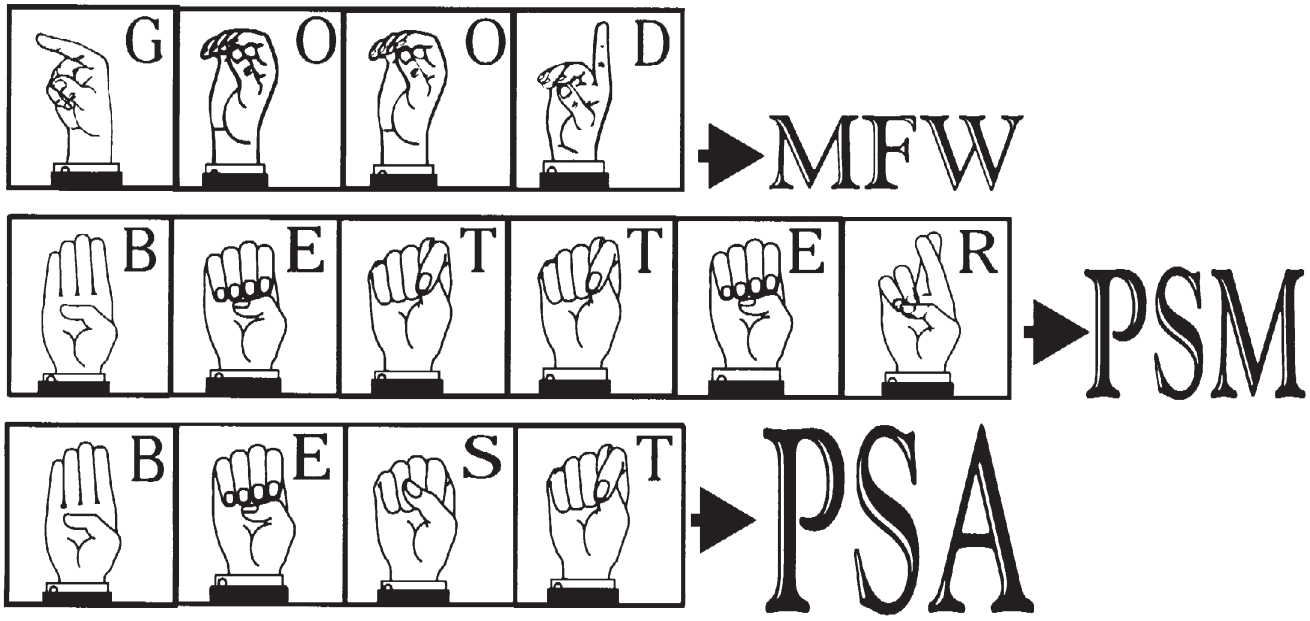
Petroleum supply data collected by the Petroleum Division (PD) of the Energy Information Administration (EIA) displayed improving signs of accuracy in 1997. These data were presented in a series of PD publications: the *Weekly Petroleum Status Report* (*WPSR*), the *Winter Fuels Report* (*WFR*), the *Petroleum Supply Monthly* (*PSM*), and the *Petroleum Supply Annual* (*PSA*). Weekly estimates in the *WPSR* and *WFR* were the first values available.

Figure FE1 illustrates the improving signs of accuracy from the weekly estimates to the interim monthly values to the final petroleum supply values. The monthly-from-weekly (MFW) data are the least accurate but "good." The *PSM* data are more accurate or "better" and the *PSA* data are the most accurate or "best." For 1997, 66 petroleum supply data series were analyzed to determine how close the *PSM* values were to the final *PSA* values. For these series, 45 out of the 66 were within 1 percent of the *PSA* values in terms of mean absolute percent error. Sixty-one petroleum supply data series were analyzed to see how close the MFW estimates were to the final *PSA* values. For these 61 series, 27 were within 2 percent of the *PSA* values in terms of mean absolute percent error and, of those, 11 were within 1 percent.

Two major factors that contribute to the *PSM* values being more accurate than the MFW estimates are: (1) the greater length of time between the close of the reference period and the publication date of the *PSM*; and, (2) some MFW values are estimates whereas many *PSM* respondents extract their actual data from automated accounting systems. The greater length of time allows more in-depth review of the data by the respondents and EIA. Within 2 months of the close of a reference month, interim values are published in the *PSM*. The weekly data are more quickly available. The *WPSR* is available electronically 5 days after and in hardcopy 7 days after the close of the reference week (excluding holiday weeks). Propane data are available electronically and in the *WPSR*. About 5 months after the end of the reference year, final monthly values, reflecting any resubmissions, are published in the *PSA*.

Historically, the weekly publications (*WPSR* and *WFR*) and the monthly publication (*PSM)* provided volumes of crude oil and petroleum products data at relatively increasing levels of accuracy. This article provides petroleum analysts with a measure of the degree to which, on average, estimates and interim values vary from their final values.

Figure FE1. The "Best" Sign for 1997 PD Data



The Petroleum Supply Reporting System

The 15 surveys in the Petroleum Supply Reporting System (PSRS) track the supply and disposition of crude oil, petroleum products, and natural gas liquids in the United States. To maintain a database with historically accurate observations and current estimates from the petroleum industry, EIA administers three survey series: weekly, monthly, and biennial (every other year).

The PSRS is organized into two data collection subsystems, the Weekly Petroleum Supply Reporting System (WPSRS) and the Monthly Petroleum Supply Reporting System (MPSRS). The WPSRS processes data from the five weekly surveys. In addition, the Form EIA-807, "Propane Telephone Survey," collects data weekly from October through March. The MPSRS includes eight monthly surveys, one biennial survey, and the Form EIA-807 monthly data, which are collected from April through September.

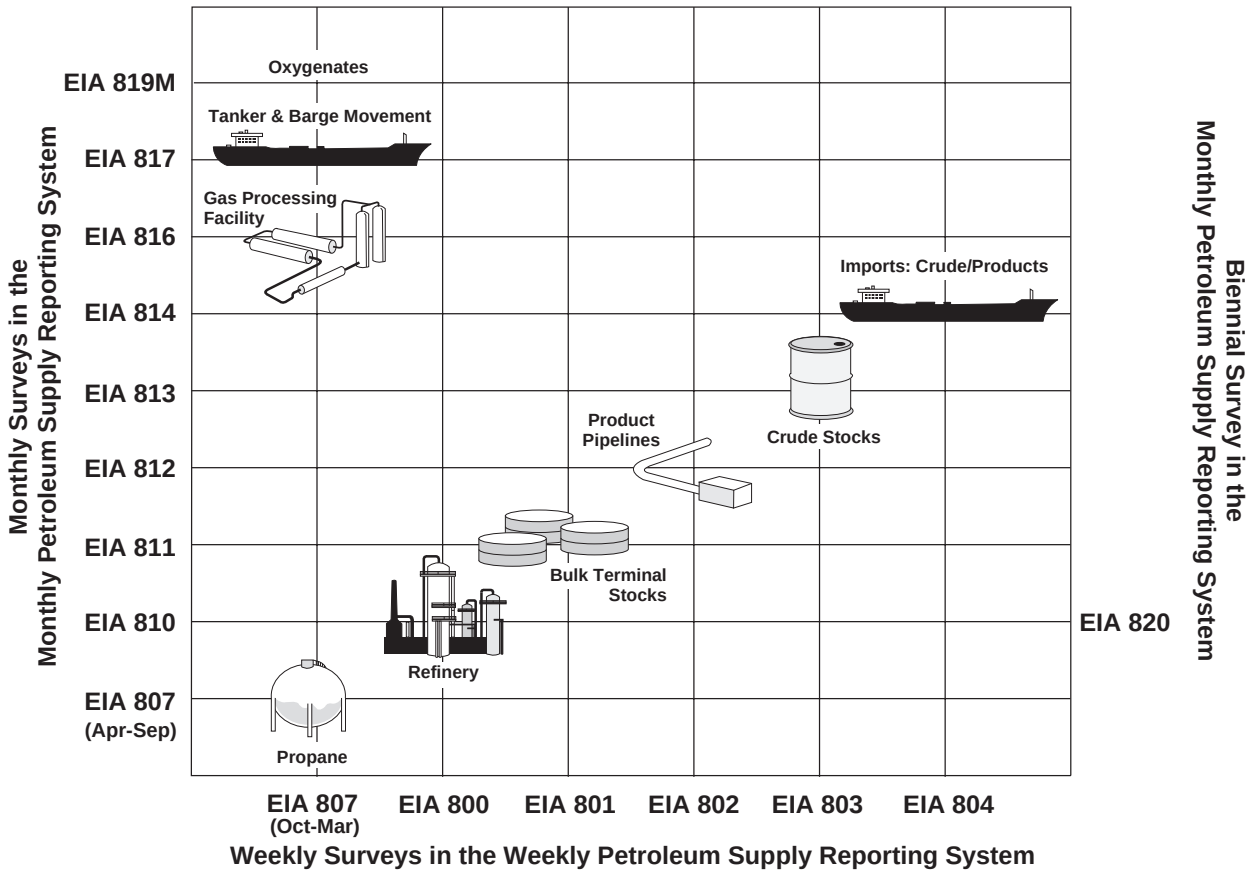
Figure FE2 displays the petroleum supply and distribution system and indicates the points at which petroleum supply data are collected. Both weekly and monthly surveys are administered at six key points along the petroleum production and supply path: (1) refineries, (2) bulk terminals, (3) product pipelines, (4) crude oil stock holders, and (5) importers of crude oil and products.

Due to budget reductions, EIA modified the collection of the annual Form EIA-820, "Annual Refinery Report" to be the Form EIA-820, "Biennial Refinery Report." Annual U.S. refinery capacity data collection and publication normally presented in Volume 1 of the *PSA* were collected and published for 1997.

The Weekly Petroleum Supply Reporting System

The WPSRS contains the data collected from the five weekly surveys. Each weekly survey is distributed to a sample of the corresponding monthly survey's universe. In Figure FE2, the icons represent the target population of the monthly and weekly surveys of the PSRS. For example, the target population for the survey Forms EIA-801 and EIA-811 is bulk terminal stocks. Thus, the respondents to the Form EIA-801 are a sample of the respondents who report on Form EIA-811. For the weekly surveys, EIA aims for a minimum 90-percent multi-attribute-cutoff sample from the respondents to the

Figure FE2. Petroleum Supply Reporting System: Surveys and Subsystems



Source: Energy Information Administration, Petroleum Supply Reporting System.

corresponding monthly survey. In choosing the sample for each product, companies are ranked in descending order by volume. Respondents are chosen in order, down the list until the sample includes those companies contributing at least 90 percent of a variable's total volume. For example, for distillate fuel oil stocks, the weekly sample includes those respondents whose combined volumes of stocks for distillate fuel oil from refineries, bulk terminals, and pipelines constitute at least 90 percent of the total volume of distillate fuel oil stocks as reported in the corresponding monthly surveys.

With these weekly surveys, EIA can provide timely, relatively accurate snapshots of the U.S. petroleum industry every week. The weekly surveys collect information on the supply and disposition of selected petroleum products and crude oil. The reference period for each weekly survey begins at 7:01 a.m. each Friday and ends at 7:00 a.m. the following Friday. Respondents report their data via telephone, facsimile, or EIA's electronic data collection software package, the Personal Computer Electronic Data Reporting Option (PEDRO). All respondents must submit their data by 5:00 p.m. on the Monday following the end of the reference period. During 2 working days, quality control procedures are executed. Cell values determined to be unusual or inconsistent with other cell values are flagged. The validity of the value of each flagged cell is investigated. Some flagged values are verified by the respondent to be correct; other flagged cells are corrected; and the remaining flagged values are referred to as unresolved. Nonrespondent and unresolved flagged data are imputed using an exponentially smoothed mean of the respondents' historical data.

Within 7 days of the close of the reference week, data are made available to the public in three forms: through the EIA's internet web site (http://www.eia.doe.gov), the EIA electronic publishing system (EPUB), and hardcopy (through the *WPSR*). Except when holidays delay data processing schedules, values for the weekly variables, with the exception of propane, are available via the internet and EPUB at 9:00 a.m. on the Wednesday following the close of the reference week. Propane data are available via the internet and EPUB at 5:00 p.m. on the same Wednesday. The hardcopy *WPSR* is distributed on the Friday morning following the close of the reference week.

The Monthly Petroleum Supply Reporting System

The reference period for the monthly surveys starts on the first day of the month at 12:01 a.m. and ends on the last day of the month at midnight. Except for the Form EIA-819M, the deadline for filing monthly surveys is the 20th calendar day following the end of the report month. Data collection for the Form EIA-819M begins on the seventh working day of the month. Form EIA-819M data are solicited by telephone or received by facsimile. Data for the other monthly surveys are reported via telephone, facsimile, or PEDRO.

During the period of data editing, either the respondent or EIA staff may identify an error. If the respondent discovers an error, the EIA representative for a particular survey is notified and the value is corrected. If EIA's edits diagnose an unusual value, an EIA representative will determine if the value is correct or incorrect by calling the company and/or reviewing historical data.

Within 60 days of the close of the reference month, all of the interim monthly data are published in the *PSM*. However, customer satisfaction surveys conducted by EIA during 1995 showed a need for faster release of available monthly data. In response to this need, beginning in November 1995, EIA implemented a plan for early release of monthly petroleum statistics approximately 45 days after the end of the report period. The preliminary data are presented in four tables: "U.S. Daily Average Supply and Disposition of Crude Oil and Petroleum Products," "Imports of Crude Oil and Petroleum Products into the United States by Country of Origin," "Stocks of Crude Oil and Petroleum Products by Petroleum Administration for Defense (PAD) District," and "Refinery, Bulk Terminal, and Natural Gas Plant Stocks of Selected Petroleum Products by PAD District and State". These preliminary tables are available on the internet and EPUB approximately on the 13th of each month. After incorporation of petroleum exports and crude oil production, these tables are replaced with final tables between the 20th and the 23rd of each month. In addition to the internet, beginning in March 1996, monthly data became available on EIA's CD-ROM called the Energy InfoDisc, which is released quarterly.

Throughout the year, EIA accepts data revisions of monthly data. If a revision is made after the *PSM* has been published, it is referred to as a resubmission. Resubmissions for earlier months are published in Appendix C of the *PSM* and are reflected in the *PSA*.

Beginning with the February 1994 *PSM*, Table H1, "Petroleum Supply Summary" was included to show early estimates of monthly data. The current-month values in Table H1 are preliminary estimates based on weekly submissions. These monthly-from-weekly estimates become available in the *WPSR* and on EPUB on the Wednesday following the first Friday of each month.

Within 5 months of the end of the calendar year, the final monthly values for the previous year are published in the *PSA*. These values reflect all *PSM* resubmissions and other data corrections. The values contained in the *PSA* are EIA's most accurate measures of petroleum supply industry activity.

Table FE1. Average Coverage for Weekly Surveys, 1997 and 1996 (Percent of Final Monthly Volumes Included in Monthly-from-Weekly Sample)

Product	Stocks						Production		Imports	
	Refinery		Bulk Terminal		Pipeline					
	1997	1996	1997	1996	1997	1996	1997	1996	1997	1996
Total Motor Gasoline	98	98	93	93	97	97	99	99	98	96
Jet Fuel	98	98	94	94	99	99	99	99	99	98
Distillate Fuel Oil	97	97	88	88	98	98	97	97	90	89
Residual Fuel Oil	95	94	91	91	—	—	95	94	95	94
Crude Oil	96	96	—	—	—	—	—	—	94	95

— = Not Applicable.
Source: Energy Information Administration, Petroleum Supply Reporting System.

Factors Affecting Data Accuracy

Maintaining an accurate database is a major goal of EIA. The quality of the data drives the quality of all qualitative and quantitative analyses conducted using these data. Accuracy and timeliness are primary attributes of high quality data. Accuracy of survey data is measured as the closeness of the published values to the true values (i.e., those values that would be obtained if the target population had been correctly surveyed and all the data had been precisely recorded).

Respondents to the monthly surveys have more time to file than the weekly respondents, enabling them to collect, review, and revise their data more carefully than the weekly respondents. Additionally, EIA has more time to edit the monthly data. Also, some weekly respondents report estimates while many monthly respondents extract actual data from accounting systems. Thus, the monthly data are more accurate.

Some sources of error, such as nonresponse, are not totally preventable. Other errors, such as sampling errors, are unique to a particular type of survey. One situation where sampling error occurs is if the group of sampled respondents is dissimilar to the full population. Within the PSRS, only weekly surveys, the Form EIA-819M, "Monthly Oxygenate Telephone Report," and the Form EIA-807, "Propane Telephone Survey," are at risk of having sampling errors. However, all surveys in the PSRS are at risk for nonsampling errors, such as: (1) insufficient coverage of respondents (the survey frame does not include all members of the target population); (2) nonresponse; (3) response error; and (4) internal processing errors such as incorrect data entry. A detailed discussion of factors influencing data accuracy and how they are minimized in the PSRS follows.

Samples and Sampling Error

A sample is a subsection of a universe identifying members of a target population. The weekly surveys are administered to samples of the monthly populations to reduce respondent burden and to expedite the turnaround of data from survey respondents to the public. As with any sample, the values obtained are different from those obtained if the full universe had been surveyed. Sampling error is the difference between a sample estimate and a population value.

There are five samples, one for each weekly petroleum supply survey, in the WPSRS. For these surveys, the sampling error is minimized by using a minimum 90-percent multi-attribute-cutoff sample from the corresponding monthly survey's frame. At the end of each month, updates are made to the samples and survey frames if a 90-percent coverage was not obtained.

For the weekly surveys, better coverage will most likely reduce sampling error. As shown in Table FE1, 1997 coverage was comparable to 1996. All but one of the 21 product and supply type combinations had coverage of 90 percent or above in 1997. For 13 of the 21 combinations, 1997 coverage increased from 1996. Tabulations were done before rounding of the coverage values. The largest percentage increase from 1996 to 1997 was for total motor gasoline imports, from 96 to 98 percent.

Nonsampling Error

Unlike sampling errors, all survey data, even those from a census survey, are at risk of incurring nonsampling errors. There are two categories of nonsampling errors, random and systematic. With random error, on average, and over time, values will be overestimated by the same amount they are underestimated. Therefore, over time, random errors do not bias the data, but they will give an inaccurate portrayal at any point in time. On the other hand, systematic error is a source of bias in the data, since these patterns of errors are made repeatedly. The following is a discussion of how the four most frequently occurring types of nonsampling error are minimized within the PSRS.

Frame Updates

The list of all companies identified as members of the target population is called a frame. If members of the target population are not included in the frame, there is an

Table FE2. Average Response Rates for Monthly and Weekly Surveys, 1997

Survey Site	Respondents to Monthly Surveys			Respondents to Weekly Surveys		
	Average Universe Size	Average Number of Respondents	Average Reponse Rate[1]	Average Weekly Sample Size	Average Number of Respondents	Average Reponse Rate[2]
Refinery	258	251	97.2	186	180	96.7
Bulk Terminal	310	296	95.5	77	73	94.8
Pipeline	81	81	99.5	43	42	97.1
Crude Oil Stocks	177	174	98.7	84	82	97.3

[1] The average response rates for monthly surveys are calculated by summing the individual monthly response rates and dividing by 12.
[2] The average response rates for weekly surveys are calculated by summing the individual weekly response rates and dividing by 52.
Note: Percents are calculated before rounding.
Source: Energy Information Administration, Petroleum Supply Reporting System.

undercount of the aggregate data. To diminish the chance of undercounting, the PSRS frames are continually updated. New companies are identified through continual review of petroleum industry periodicals, newspaper articles, and correspondence from respondents. During the frames update, each frame is scrutinized to assure completeness.

Maintaining a Low Nonresponse

Survey respondents are required by law to report to EIA (see Explanatory Note 6 of the *PSM* for a description of action for chronic nonresponse). The 1997 response rates for the weekly surveys and their corresponding monthly surveys are enumerated in Table FE2. Even though the 1997 average response rates for each of the EIA weekly and monthly surveys was excellent, there was a slight decrease for each survey from 1996. Budget cuts at respondent companies had a negative effect on response rates. In addition, budget cuts at EIA reduced funding available for nonrespondent followup.

To mitigate the effect of nonresponse, imputed values are calculated for all nonreported values except monthly imports. Weekly imputed values are the exponentially smoothed mean of that respondent's historical values for that variable. Monthly imputed values are the previous month's value for the particular respondent and variable. For imports, however, there is a great deal of fluctuation from one reference period to another, with respondents frequently having no imports of a particular product. As a result, zero is the value imputed for nonreported cells on the monthly survey. In addition, the monthly imports are collected and published at a much greater level of detail than the weekly imports, which makes imputation impractical.

Reducing Response Error

Over the past 5 years, many structural and procedural improvements to the PSRS system have been made in order to reduce the problem of nonsampling errors. One such improvement has been the increased participation in the PEDRO system, which permits all weekly and monthly survey data except the Form EIA-819M and Form EIA-807 to be submitted to EIA electronically. A respondent entering values via PEDRO may execute edit routines prior to transmission of the survey responses. These routines include consistency and outlier (extreme value) checks of the data. Unusual or nonreported cells are flagged and, prior to transmission of the data, a representative of the company is able to review and verify or correct data in the flagged cells.

Even with sophisticated edit checks, response error (the difference between the reported value and the actual value) remains the most likely cause of data inaccuracy. The weekly surveys are more susceptible to response error since some of their values are estimates. Many monthly respondents abstract their actual data from accounting systems and thus are generally more accurate.

Maintaining accurate accounting records, however, does not ensure against response error. For example, numbers can be transposed within the correct cell; an otherwise correct value may be entered in the wrong cell; a respondent may misinterpret the intent of a question; or the wrong units may be used.

Survey Clarity

The terms, layout, and definitions on all survey forms are periodically reviewed for completeness, clarity, and consistency across surveys. At regular intervals, survey intent, as well as what data are collected, are subject to industry and government review. To the extent possible, industry changes in terminology and practice are incorporated into the PSRS on an ongoing basis.

Data Assessment

Each of the variables included in these analyses is of current and historical interest. Of the 66 variables for which both *PSM* and *PSA* values were published, only 61 of them were published weekly throughout 1997. For each variable, six measures of accuracy were calculated to compare the differences between the MFW and *PSM* values relative to the *PSA* values.

- **Error** is the difference between the estimate or interim value and the final value for a given month. For inputs, production, stock change, imports, exports, and product supplied, values are expressed in units of thousands of barrels per day. For stocks, values are expressed in units of thousands of barrels.

MFW Error = MFW Volume - *PSA* Volume

PSM Error = *PSM* Volume - *PSA* Volume

- **Percent Error** is the error for a given month divided by the final value for a given month, and multiplied by 100.

$$\text{MFW Percent Error} = \frac{\text{MFW Error}}{\textit{PSA}\ \text{Volume}} \times 100$$

$$\textit{PSM}\ \text{Percent Error} = \frac{\textit{PSM}\ \text{Error}}{\textit{PSA}\ \text{Volume}} \times 100$$

- **Mean absolute error** is the weighted average over the 12 months of the year of the absolute values of the errors for each month. The mean absolute error measures the average magnitude of the revisions that took place over a year. Outliers increase the mean absolute error. The number of days in the month is used for weighting all product categories except stocks. Stocks are weighted equally for each of the 12 months.

- **Mean absolute percent error** is the weighted average over the 12 months of the year of the absolute values of the percent errors. It provides a measure of the average magnitude of the revisions relative to final values. The mean absolute percent error has an inverse relationship with data accuracy; i.e., the smaller the mean absolute error, the closer the interim data are to the final data; conversely, the larger the mean absolute percent error, the greater the difference in the interim value and the final value. Outliers inflate the mean absolute percent error.

- **Range** is the difference between the smallest and largest percent errors. The range shows the dispersion of the percent differences between interim and final values.

- **Median** of the percent errors is the point at which half the values are higher and half are lower. Unlike the mean, the median is not affected by an outlier. In these analyses, each distribution has 12 observations. The median is the average of the sixth and seventh ordered observation.

The average final absolute volumes and the mean absolute percent error for MFW estimates and *PSM* interim values for 1997 and 1996 are presented in Table FE3. The average final absolute volumes are presented to give the reader an idea of the magnitude of these volumes. Variables with very small volumes are prone to larger percent changes because a modest volume change is being compared to a small final volume. The mean absolute error and the size of the volumes involved must both be included in the interpretation of data accuracy.

The 1997 MFW mean absolute percent errors which were within 2 percent of their respective *PSA* values (27 of the 61 MFW series), and the 1997 *PSM* mean absolute percent errors which were within 1 percent of their *PSA* values (45 of the 66 *PSM* series), are distinguished by a single asterisk. Mean absolute percent errors that were greater than 10 percent are marked by a double asterisk. There were 8 such MFW series and 3 *PSM* series.

For 1997, 7 of the 11 weekly production series decreased in mean absolute percent error from 1996. Thirteen of the 14 production series have a single asterisk in the *PSM* column, indicating a mean absolute percent error of less than 1 percent from the *PSA*. The decrease in the MFW mean absolute percent error for oxygenated motor gasoline production is due to a resolution of reporting deficiencies. Weekly fuel ethanol supply and disposition data are not available; therefore, the weekly oxygenated motor gasoline field production is based on the latest available monthly value.

The single asterisks in Table FE3 by the stock series show that, as in prior years, the stock values for both MFW estimates and *PSM* interim values are very close to the final *PSA* values. A major exception is the double asterisk shown by the MFW percent error for oxygenated motor gasoline stocks. The increase is related to the average absolute volume. Fuel ethanol and methyl tertiary butyl ether stocks are not collected weekly, but are collected on the Form EIA-819M, "Monthly Oxygenate Telephone Report." The survey provides production data and preliminary stock data from a sample of respondents reporting on the monthly surveys and from the universe of oxygenate producers. These data are displayed in Appendix D of the *PSM*. Interim data are collected later on the monthly surveys and published in the *PSM*.

Stock change is the difference between stocks at the beginning of the month and stocks at the end of the month. Since the monthly change in stock levels is small compared to the stock levels themselves, a large percent error in stock change can occur when the percent errors in stock levels are small.

Crude oil stock change is one of the components in the calculation of unaccounted for crude oil (calculated disposition minus calculated supply of crude oil). For both the MFW and the *PSM* numbers, the volume of the unaccounted for crude oil may be increased by a combination of factors including an understatement of imports, an overstatement of exports, an understatement of crude oil production, an understatement of stock withdrawals, and an overstatement of crude oil inputs. The overstatement of crude oil inputs can be caused by injections along crude oil pipelines of natural gas liquids. When refiners receive this mixture, they process it as crude oil. As seen in Table FE3, the production, imports, and refinery inputs of crude oil have a small mean absolute percent error relative to crude oil stock change. There was a large decrease in mean absolute percent error for 1997 MFW and *PSM* values relative to 1996 due to corrections of misreported data.

For petroleum products, stock change is a component in the calculation of product supplied (representing the consumption of petroleum products). Unlike the other variables, stock change values can be negative. Stock change thus has an added

Table FE3. Summary Statistics for Differences Between Interim and Final Data, 1997 and 1996

Variable	*PSA* Average Absolute Volumes		Monthly-from-Weekly Mean Absolute Percent Error		*PSM* Mean Absolute Percent Error	
	1997	1996	1997	1996	1997	1996
Crude Oil Production (thousand barrels/day)	6,452	6,465	* 0.87	0.79	* 0.78	0.50
Refinery Operations						
Refinery Crude Oil Inputs (thousand barrels/day)	14,662	14,195	* 0.36	0.32	* 0.24	0.19
Operable Utilization Rate (percent)	95	94	* 1.24	1.20	* 0.28	0.70
Production (thousand barrels/day)						
Total Production	18,918	18,467	—	—	* 0.17	0.25
Refinery Production	16,759	16,324	* 1.82	1.44	* 0.16	0.25
Finished Motor Gasoline	7,870	7,647	* 0.83	0.96	* 0.18	0.70
Reformulated Motor Gasoline	2,406	2,221	* 1.98	2.97	* 0.86	1.83
Oxygenated Motor Gasoline	587	454	** 13.04	56.41	3.62	3.09
Other Motor Gasoline	4,877	4,972	* 1.81	4.00	* 0.40	0.60
Jet Fuel	1,554	1,515	* 1.25	1.27	* 0.41	0.11
Distillate Fuel Oil	3,392	3,316	* 1.50	0.42	* 0.27	0.30
Low Sulfur Distillate Fuel Oil	2,162	2,084	* 1.17	1.72	* 0.66	0.25
High Sulfur Distillate Fuel Oil	1,229	1,232	3.46	2.52	* 0.81	2.77
Residual Fuel Oil	708	726	3.96	4.17	* 0.39	0.80
Other Products	5,394	5,264	—	—	* 0.70	0.59
Propane	1,092	1,044	—	—	* 0.16	0.18
Other Products Refinery Production	3,362	3,204	7.86	7.18	* 0.13	0.58
Stocks (thousand barrels)						
Total Stocks	1,552,154	1,525,640	* 0.71	0.57	* 0.06	0.07
Total Stocks, excl. SPR	988,701	944,599	* 1.12	0.95	* 0.10	0.12
Total Crude Oil Stocks	874,713	884,400	* 0.27	0.27	* 0.07	0.11
Crude Oil Stocks, excl. SPR	311,260	303,359	* 0.77	0.76	* 0.21	0.31
SPR Stocks	563,453	581,041	* 0.00	0.04	* 0.00	0.00
Refined Products Stocks	677,441	641,240	* 1.41	1.43	* 0.07	0.10
Total Motor Gasoline Stocks	200,295	200,699	* 0.77	1.03	* 0.12	0.22
Reformulated Motor Gasoline Stocks	39,759	39,413	3.51	2.18	* 0.40	1.24
Oxygenated Motor Gasoline Stocks	957	1,522	** 26.70	22.23	** 14.23	8.92
Other Motor Gasoline Stocks	117,448	118,855	* 1.30	1.56	* 0.20	0.20
Jet Fuel Stocks	42,162	38,246	* 1.29	1.68	* 0.84	0.20
Distillate Fuel Oil Stocks	120,913	106,959	* 1.75	1.22	* 0.24	0.19
Low Sulfur Distillate Fuel Oil Stocks	63,474	59,291	* 1.91	1.67	* 0.45	0.28
High Sulfur Distillate Fuel Oil Stocks	57,439	47,668	2.27	2.48	* 0.24	0.33
Residual Fuel Oil Stocks	38,604	36,367	* 1.70	2.69	* 0.22	0.27
Other Products Stocks	275,468	258,969	2.39	3.30	* 0.18	0.18
Propane Stocks	44,947	38,386	2.34	4.89	* 0.29	0.48
Fuel Ethanol Stocks	2,866	1,425	6.46	5.62	* 0.62	1.39
Methyl Tertiary Butyl Ether Stocks	8,920	9,718	7.64	6.26	1.40	0.62
Stock Change (thousand barrels/day)						
Total Stock Change	587	563	** 73.10	84.30	7.60	7.56
Total Crude Oil Stock Change	309	211	** 45.20	1,258.53	9.51	220.89
Refined Products Stock Change	504	535	** 82.79	71.92	** 17.15	8.08
Imports (thousand barrels/day)						
Total Imports	10,162	9,478	3.01	2.68	2.46	0.84
Total Crude Oil Imports	8,225	7,508	2.63	1.75	2.72	0.39
Crude Oil Imports, excl. SPR	8,225	7,508	2.63	1.75	2.72	0.39
SPR Imports	0	0	* 0.00	0.00	* 0.00	0.00
Refined Products Imports	1,936	1,971	5.62	10.37	1.35	2.74
Finished Motor Gasoline Imports	309	336	6.20	13.68	2.32	4.16
Reformulated Motor Gasoline Imports	161	174	9.05	15.10	2.99	6.27
Oxygenated Motor Gasoline Imports	0	0	* 0.00	0.00	* 0.00	0.00
Other Motor Gasoline Imports	148	163	** 16.05	22.45	2.27	3.61
Jet Fuel Imports	91	111	9.33	10.75	2.22	2.87

See footnotes at end of table.

Table FE3. Summary Statistics for Differences Between Interim and Final Data, 1997 and 1996 (Continued)

Variable	*PSA* Average Absolute Volumes		Monthly-from-Weekly Mean Absolute Percent Error		*PSM* Mean Absolute Percent Error	
	1997	1996	1997	1996	1997	1996
Distillate Fuel Oil Imports	228	230	6.89	11.31	* 0.66	2.45
Low Sulfur Distillate Fuel Oil Imports	103	112	7.90	9.92	4.34	2.84
High Sulfur Distillate Fuel Oil Imports	125	118	9.65	19.54	3.71	2.29
Residual Fuel Oil Imports	194	248	** 11.91	13.03	3.35	0.79
Other Products Imports	1,114	1,045	8.67	15.95	2.01	5.63
Propane Imports	113	119	—	—	** 12.67	2.22
Exports (thousand barrels/day)						
Total Exports	1003	981	8.08	6.31	* 0.02	0.00
Crude Oil Exports	108	110	** 71.94	41.76	* 0.03	0.00
Refined Products Exports	896	871	8.13	7.13	* 0.02	0.00
Total Net Imports (thousand barrels/day)	9,158	8,498	2.93	3.03	2.72	0.94
Products Supplied (thousand barrels/day)						
Total Products Supplied	18,620	18,309	* 1.36	1.49	* 0.27	0.41
Finished Motor Gasoline Supplied	8,017	7,891	* 0.73	1.43	* 0.23	0.52
Jet Fuel Supplied	1,599	1,578	* 1.97	3.07	* 0.84	0.43
Distillate Fuel Oil Supplied	3,435	3,365	2.18	1.88	* 0.37	0.30
Residual Fuel Oil Supplied	797	848	6.54	6.65	* 0.88	1.10
Other Products Supplied	4,773	4,627	3.77	3.98	* 0.59	0.73
Propane Supplied	1,170	1,136	—	—	1.21	0.47

— = Not Applicable.

* = For 1997 MFW values, mean absolute percent error less than or equal to 2; for 1997 *PSM* values, mean absolute percent error less than or equal to 1.

** = For 1997, mean absolute percent error greater than 10.

SPR = Strategic Petroleum Reserve

Notes: •Error is the difference between Monthly-from-Weekly estimates or interim monthly data published in the *Petroleum Supply Monthly* and the final value as published in the *Petroleum Supply Annual*. Percent error is the error multiplied by 100 and divided by the final published value. Mean absolute error is the weighted average of the absolute errors. Mean absolute percent error is the weighted average of the absolute percent errors. The number of days in the month is used for weighting all product categories except stocks. Stocks are weighted equally for each of the 12 months. •Totals may not equal sum of components due to independent rounding. •All components of Other Products are not displayed.

Source: Energy Information Administration, Petroleum Supply Reporting System (including U.S. Bureau of the Census data).

dimension by which to evaluate accuracy; this is the correctness of the direction of the change. Table FE4 provides a measure of accuracy of the direction of MFW and *PSM* stock change values for 1997 and 1996. For 1997 MFW total stock change values, only one month differed in direction of the *PSA* values compared to four months in 1996. The 1997 direction of *PSM* stock change values was correct 100% of the time in all three stock change categories. The direction of *PSM* stock change values was correct only 83 percent of the time in 1996.

For imports, one reason for the large mean absolute percent errors in the MFW values is that shipments do not always arrive during the week in which they were expected. This has a greater impact when the end of the month occurs in the middle of the week. Only three of the 15 MFW import series in Table FE3 showed an increase in mean absolute percent error from 1996 to 1997 compared to eight from the 1995 to 1996 comparison performed last year. For the *PSM*, seven of the 16 import series increased in mean absolute percent error compared to last year's increase of 13.

Table FE4. Number of Months In Which the Direction of Non-Final Stock Change Values Differed From *PSA*

	Number of Months	
	1997	1996
Total Stock Change		
MFW and *PSA* Values	1	4
PSM and *PSA* Values	0	0
Crude Stock Change		
MFW and *PSA* Values	1	1
PSM and *PSA* Values	0	2
Refined Products Stock Change		
MFW and *PSA* Values	3	2
PSM and *PSA* Values	0	0

Source: Energy Information Administration, Petroleum Supply Reporting System.

With the exception of refinery receipts in the Virgin Islands, EIA does not collect export data. They are gathered by the U.S. Customs Service on a monthly basis and are compiled by the U.S. Bureau of the Census. They are received by EIA on a monthly basis approximately 7 weeks after the close of the reporting month. The weekly estimates for exports are projections based on past monthly data. Because the export data are highly variable, it is difficult to obtain estimates of comparable quality to domestic estimates.

Products supplied is the calculation of field production, plus refinery production, plus imports, plus unaccounted for crude oil, minus stock change, minus crude oil losses, minus refinery inputs, minus exports. Therefore, the accuracy of products supplied is affected by the individual components.

Box and Whisker Plots

Example 1 in the shaded box titled "Structure of Box and Whisker Plots," is a simplified illustration of the box and whisker plots that follow. The box and whisker plots map the 5-year trends in historical accuracy of weekly estimates and monthly interim values. The details provided by the box and whisker plots include: historical trends, the range of monthly percent errors, direction of the error (i.e., overestimation or underestimation), and the identification of unusual values.

Each box and whisker plot is placed on a graph, where the horizontal axis represents the year and the vertical axis represents the percent error. The center horizontal line for all the box and whisker plots is zero percent error. For each variable studied, a pair of charts, each containing five box and whisker plots (one for each year, from 1993 through 1997), are presented side-by-side; the chart on the left contains the percent errors for the MFW estimates, and the chart on the right contains the percent errors for the *PSM* values. To facilitate the comparison of MFW percent errors and the *PSM* percent errors, the plots have the same scale.

The position of the box along the y-axis denotes whether the MFW or *PSM* values are predominantly overestimates or underestimates of the *PSA* values. For example, if the majority of the MFW values were overestimates, more than half of the box would be above the zero percent error line.

Crude Oil Production and Crude Oil Inputs

Crude oil production data are not collected through any of EIA's surveys. EIA's Dallas Field Office assembles data collected from State agencies responsible for measuring crude oil production. Based on historical trends and data reported on Form EIA-182, "Domestic Crude Oil First Purchase Report," EIA estimates weekly and monthly production. Final estimates based on revised Form EIA-182 data are published in the *PSA*. Figure FE3 presents errors of MFW and *PSM* values relative to *PSA* values for crude oil production and inputs. Over the last 5 years, both MFW and *PSM* crude oil production values have been quite close to the *PSA* values. In 1997, all but one of the MFW values were underestimated. The median for the percent errors had the largest absolute percent error of -0.85 percent compared to prior years. One outlier in January (1.45) was due to resubmissions. Similarly, the median percent error for the 1997 *PSM* errors was -0.68, resulting in the largest absolute percent over the 5-year period. The range of the 1997 *PSM* percent errors, ranging from -1.57 to 0.65 percent, was the largest range for the 5 years studied and June 1997 (-1.57) had the largest absolute percent error over the 60-month period. The small percent errors of both MFW and *PSM* crude oil values demonstrate the consistency and precision of EIA's estimation procedures for weekly and monthly crude oil production.

For 1997, all of the MFW percent errors for refinery crude oil inputs were within 1 percent of the final values. Historically, the *PSM* refinery crude oil inputs have been extremely close to their final values. For 1997, all of the *PSM* percent errors were within 0.44 percent. One month did not have a revision; whereas, all other months were underestimated. The median (-0.24) for the 1997 *PSM* percent errors had the largest absolute percent for the 5-year period. The ranges of the MFW and *PSM* percent errors were the smallest of all the other plots analyzed.

Product Production

As expected, *PSM* interim values for production of each of the four major petroleum products were superior to their comparable MFW estimates. Figures FE4 and FE5 contain the box and whisker plots for motor gasoline and distillate fuel oil production, and residual fuel oil and jet fuel production, respectively.

The motor gasoline production percent errors, displayed in Figure FE4, had the smallest range (2.40) over the 5-year period. Compared to 1996, the 1997 *PSM* interim values greatly improved. Over the 5-year period, the 1997 range of percent errors was the smallest (0.62).

For the 1997 distillate fuel oil production MFW values, all but one month were overestimated. As in prior years, *PSM* interim values for distillate fuel oil production were close to final values. All of the percent errors for 1997 were within 0.72 percent; and in 58 of the last 60 months, *PSM* percent errors have been within 1 percent of the final values.

The box and whisker plots for residual fuel oil production and jet fuel production are shown in Figure FE5. Similar to 1996, the 1997 distribution of MFW percent errors for residual fuel oil ranged from -9.81 to 6.32 percent. All of the *PSM* percent errors were within 1 percent of the final values except for one outlier of -1.66 occurring in October due to revisions.

Structure of Box and Whisker Plots

All box and whisker plots discussed in this article are the visual presentation of a variable's distribution of 12 values of percent errors for either MFW or *PSM* values relative to *PSA* values for a given year. In general, box and whisker plots group data, ordered from smallest to largest, into four areas of equal frequency, quartiles, and show the range and dispersion of data within the quartiles. Sometimes the values of quartiles must be interpolated, i.e., if there are two values that meet the criteria of a quartile, then the average of the two must be taken. Presented below is a discussion of components of box and whisker plots and how they apply to the 12-value distribution illustrated in Example 1: -35, -20, -11, -9, 0, 0, 0, 0, 4.5, 5.5, 15, and 20.

- **First Quartile**

Twenty-five percent of the values are equal to or below the first quartile. In Example 1, the first quartile is the average of the third and fourth ordered observations, i.e., (-11+(-9))/2=-10. The first quartile demarcates the lower boundary of the box.

- **Second Quartile**

The second quartile is the median, and it intersects the box. Fifty percent of the observations are equal to or below the median; in our example, the values of these six observations are: 0, 0, -9, -11, -20, and -35. Also, for this example, the median is the average of the sixth and seventh value, 0, i.e., (0+0)/2. The plot provides the value of the median (the second quartile) as well as information on how the median compares in magnitude to the rest of the observations. Outliers distort the magnitude of the mean, whereas a median is not distorted since it is the actual value that falls in the middle of the distribution. Since outliers have occurred in the distributions of values of PSRS variables, a median is preferred to a mean when assessing accuracy.

- **Third Quartile**

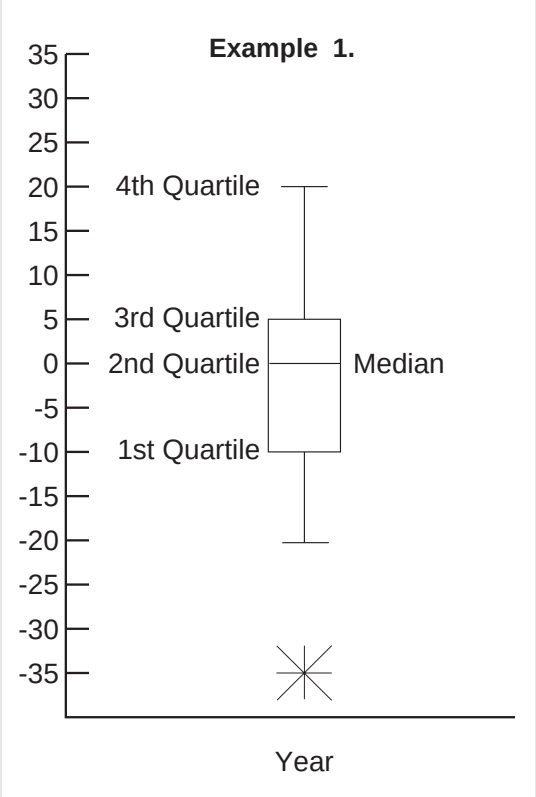
Seventy-five percent of the observations (9 in this case) have values equal to or below the third quartile. In Example 1, the third quartile is 5, i.e., (4.5+5.5)/2. The third quartile demarcates the upper boundary of the box.

- **Box**

The box contains half of all the values. In Example 1, as well as in each box found in Figures FE3-FE11, a minimum of six values are contained within the box. The interquartile range is the length of the box, the difference between the first and third quartiles. The interquartile range for Example 1 is 15, i.e., 5-(-10).

- **Whiskers**

Each whisker extends out from the box, one from the first quartile and the other from the third quartile, to the most extreme value that still falls within 1.5 times the interquartile range. In Example 1, a whisker extends from the third quartile, 5, to 20, which is the maximum value and is within 1.5 interquartile ranges of 5 (as it is less than 5+(1.5*15)=27.5). Also in Example 1, the lower whisker extends from the first quartile -10, to -20, which is the lowest value of the distribution within 1.5 interquartile ranges of the first quartile.



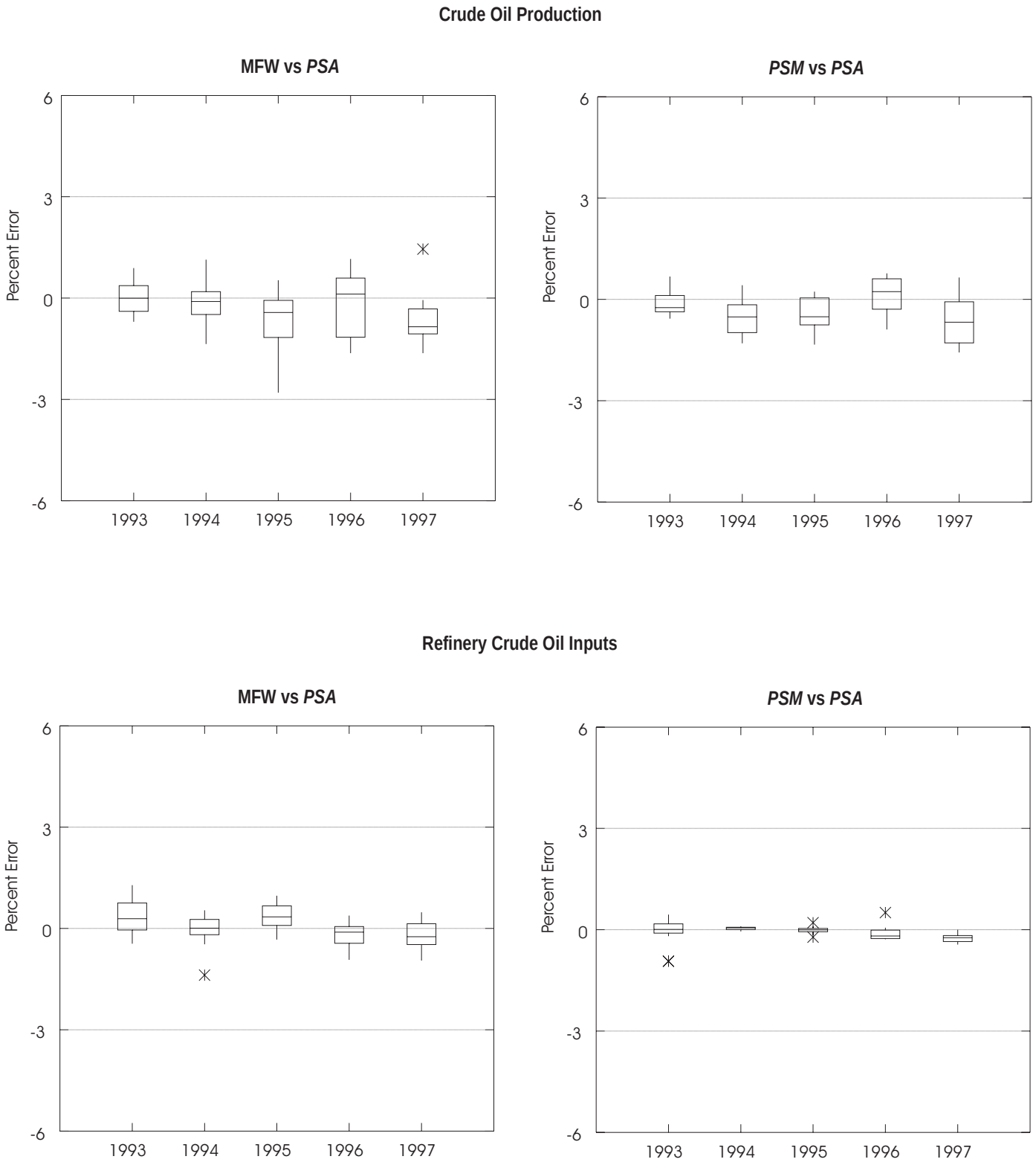
- **Fourth Quartile**

The fourth quartile is the maximum value of the distribution. In Example 1, the fourth quartile, 20, also demarcates the upper value of the top whisker as it is within 1.5 interquartile ranges of the third quartile.

- **Outlier**

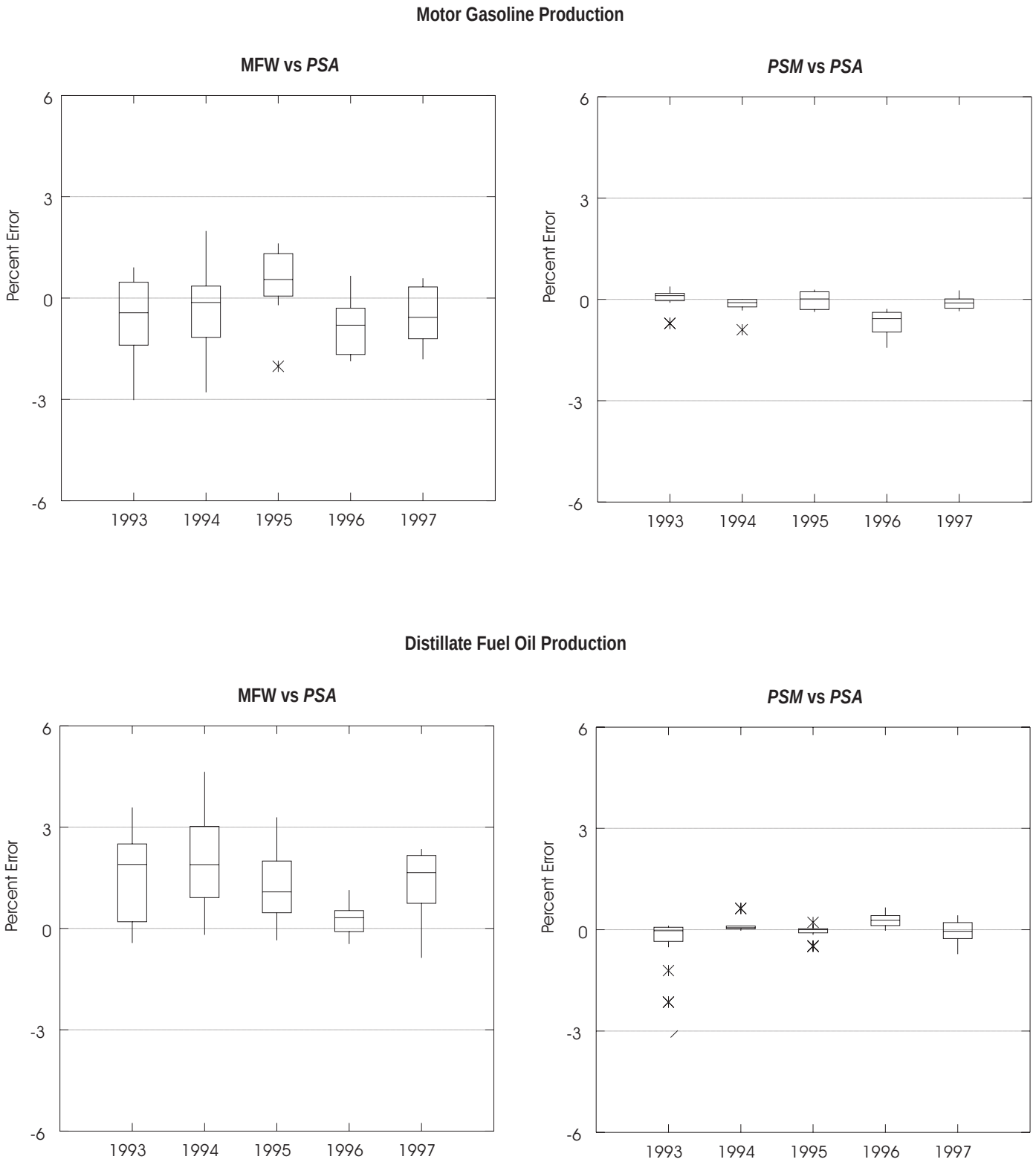
An outlier, identified as an asterisk, is an observation that is more than 1.5 interquartile ranges greater than the third quartile, or more than 1.5 interquartile ranges less than the first quartile. In Example 1, there is one outlier, -35. It is less than the lower whisker's threshold value, which is -32.5 (-10-(1.5*15)). The importance of the occurrence of an outlier depends on the distribution of the variable. If the interquartile range is very tight and the outlier is in close proximity, then there is little concern about the occurrence of that outlier. (See Figure FE3, MFW vs *PSA* of Crude Oil Production for 1997.)

Figure FE3. Range of Percent Errors for MFW and *PSM* Crude Oil Production and Refinery Crude Oil Inputs Data, 1993 - 1997



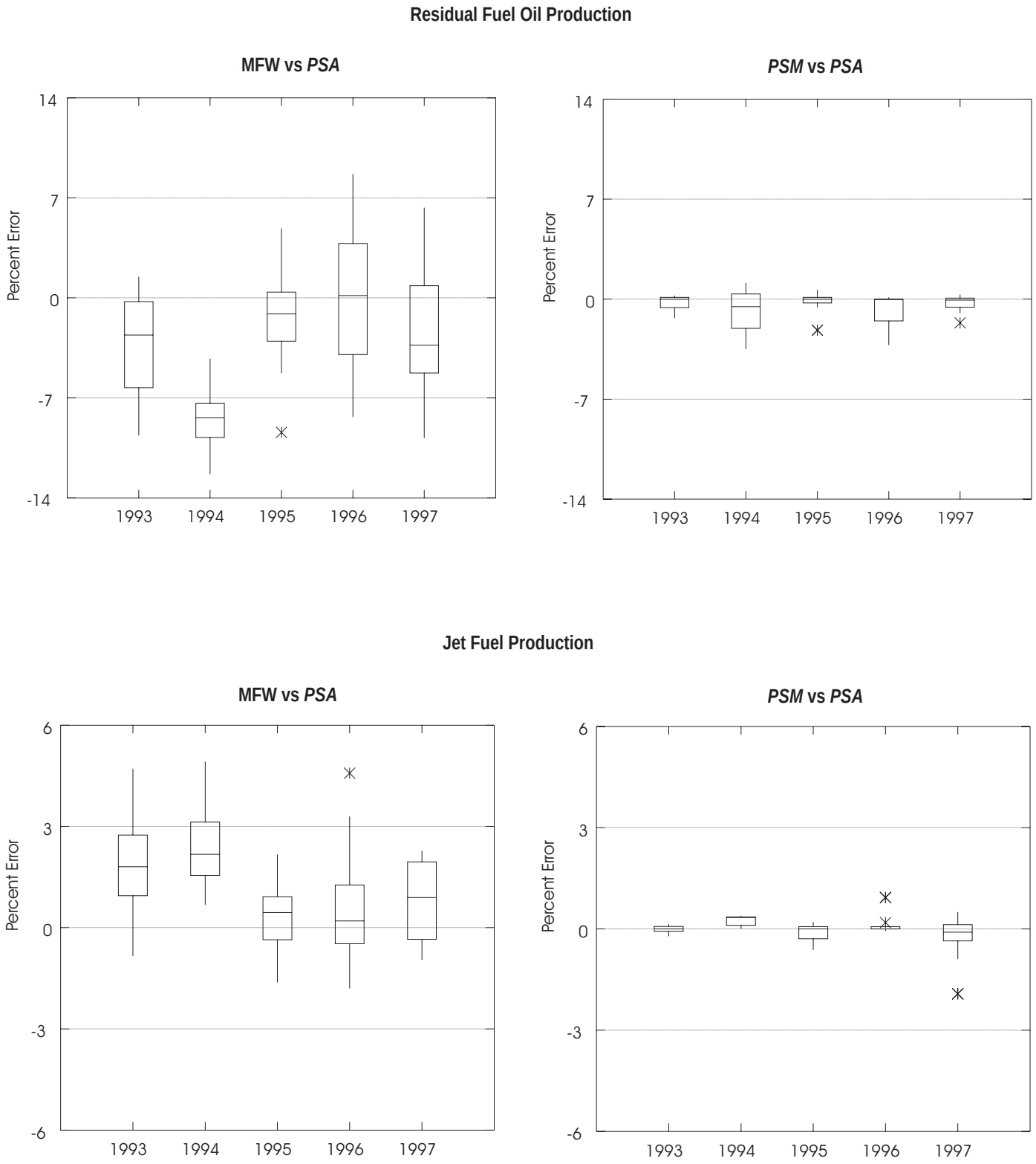
Source: Energy Information Administration, Petroleum Supply Reporting System.

Figure FE4. Range of Percent Errors for MFW and *PSM* Motor Gasoline and Distillate Fuel Oil Production Data, 1993 - 1997



Source: Energy Information Administration, Petroleum Supply Reporting System.

Figure FE5. Range of Percent Errors for MFW and *PSM* Residual Fuel Oil and Jet Fuel Production Data, 1993 - 1997



Source: Energy Information Administration, Petroleum Supply Reporting System.

The range of percent errors (3.23) for the 1997 MFW values of jet fuel production was the smallest over the 5-year period, ranging from -0.95 to 2.28 percent. Conversely, the range for the *PSM* percent errors was the largest over the 5-year period, due to an outlier in February (-1.92) due to resubmissions. This outlier was the largest percent error and the only percent error greater than 1 percent over the 60-month period.

Stocks

Figures FE6, FE7, and FE8 show the yearly distribution of percent errors for stocks of crude oil, motor gasoline, distillate fuel oil, residual fuel oil, jet fuel, and propane. Figure FE6 shows the box and whisker plots for crude oil stocks and motor gasoline stocks. Similar to the previous four years, the 1997 MFW percent errors for crude oil ranged from -1.43 to 1.18 percent. The 1997 *PSM* interim values were mostly overestimates and were within 0.63 percent of the *PSA*. The percent errors had a tight distribution around the median of 0.11 percent.

For 1997, all but one of the MFW estimates for motor gasoline stocks were underestimated. All of the *PSM* percent errors were within 0.28 percent and the median was close to zero. The 1997 ranges for the MFW and *PSM* percent errors were the smallest over the 5-year period, 2.22 and 0.49 percent, respectively.

Figure FE7 shows box and whisker plots for distillate and residual fuel oil stocks. Similar to prior years, most of the MFW estimates for 1997 distillate fuel oil stocks were underestimates. In contrast to 1996, the *PSM* interim values were mostly overestimates of the final *PSA* and were within 0.56 percent.

Residual fuel oil typically has larger percent errors than other stock series. The 1997 range, 8.95 percent, for the MFW percent errors was the largest over the 5-year period caused by an outlier in March (-5.30) due to revisions. The distribution of 1997 *PSM* percent errors was tightly grouped around the smallest median (-0.02) over the 5-year period. The two outliers occurred in September (1.05) and October (-0.63) due to resubmissions during those months.

The box and whisker plots for jet fuel stocks and propane stocks are shown in Figure FE8. For 1997, the percent errors for jet fuel stocks ranged from -4.58 to 1.64 percent with an outlier in June (-4.58) due to revisions. The 1997 range (2.31) for the *PSM* percent errors was the largest over the 5-year period with August (-2.09) having the largest absolute percent error over the past 60 months.

Similar to prior years, most of the 1997 MFW propane stocks underestimated the *PSA* values. In contrast to 1996 in which the range was the largest, the range for the 1997 percent errors was the smallest over the 5-year period. All but one of the *PSM* percent errors were within 0.77 percent of the *PSA* values. The four outliers in January, February, April, and September were the result of large resubmissions for those months.

Imports

Figures FE9, FE10, and FE11 show the yearly distributions of percent errors for the imports of crude oil and four products: motor gasoline, distillate fuel oil, residual fuel oil, and jet fuel. Because of the irregularity of imports for crude oil and petroleum products, the magnitude and range of percent errors for both the MFW and the *PSM* imports numbers can be expected to be much larger and wider than for production and stocks.

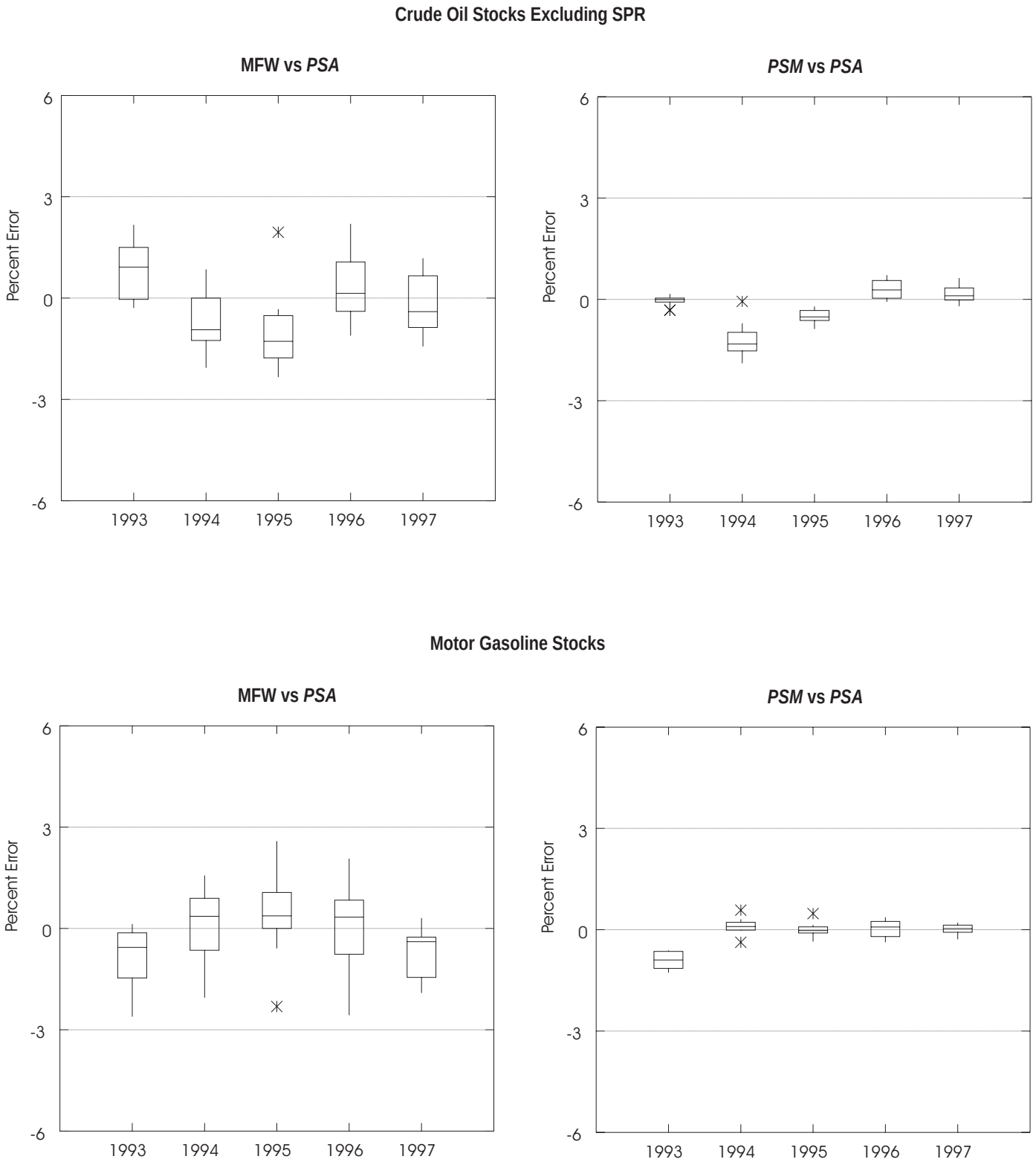
Figure FE9 shows that most of the 1997 MFW estimates of crude oil imports were underestimated. There were two outliers: May (-7.44) and October (-9.72) due to resubmissions for those months. The October percent error was the largest over the 60-month period. In contrast to prior years, all of the *PSM* interim values underestimated the final values. The 1997 median of -3.02 percent had the largest absolute percent error over the 5-year period and May (-4.32) had the largest absolute percent error over the 60-month period. Several respondents had large crude oil import revisions and additions in 1997.

The distributions of percent errors of the MFW estimates and *PSM* interim values for 1993 through 1997 of motor gasoline and distillate fuel oil imports are shown in Figure FE10. The 1997 MFW range and box for motor gasoline imports was the smallest over the past 5 years, ranging from -16.36 to 14.33. One outlier in April (14.33) was due to revisions. During 1997, there were 5 months that had resubmissions for *PSM* motor gasoline imports. Two of these months, July (-11.00) and October (6.19), were outliers due to revisions during those months.

Most of the 1997 MFW estimates for distillate fuel oil imports were underestimated. The range (19.29) of percent errors was the smallest over the 5-year period, ranging from -11.87 to 7.42 percent. During 1997, only one month had resubmissions occurring in November which made the *PSM* percent error an outlier (-8.00).

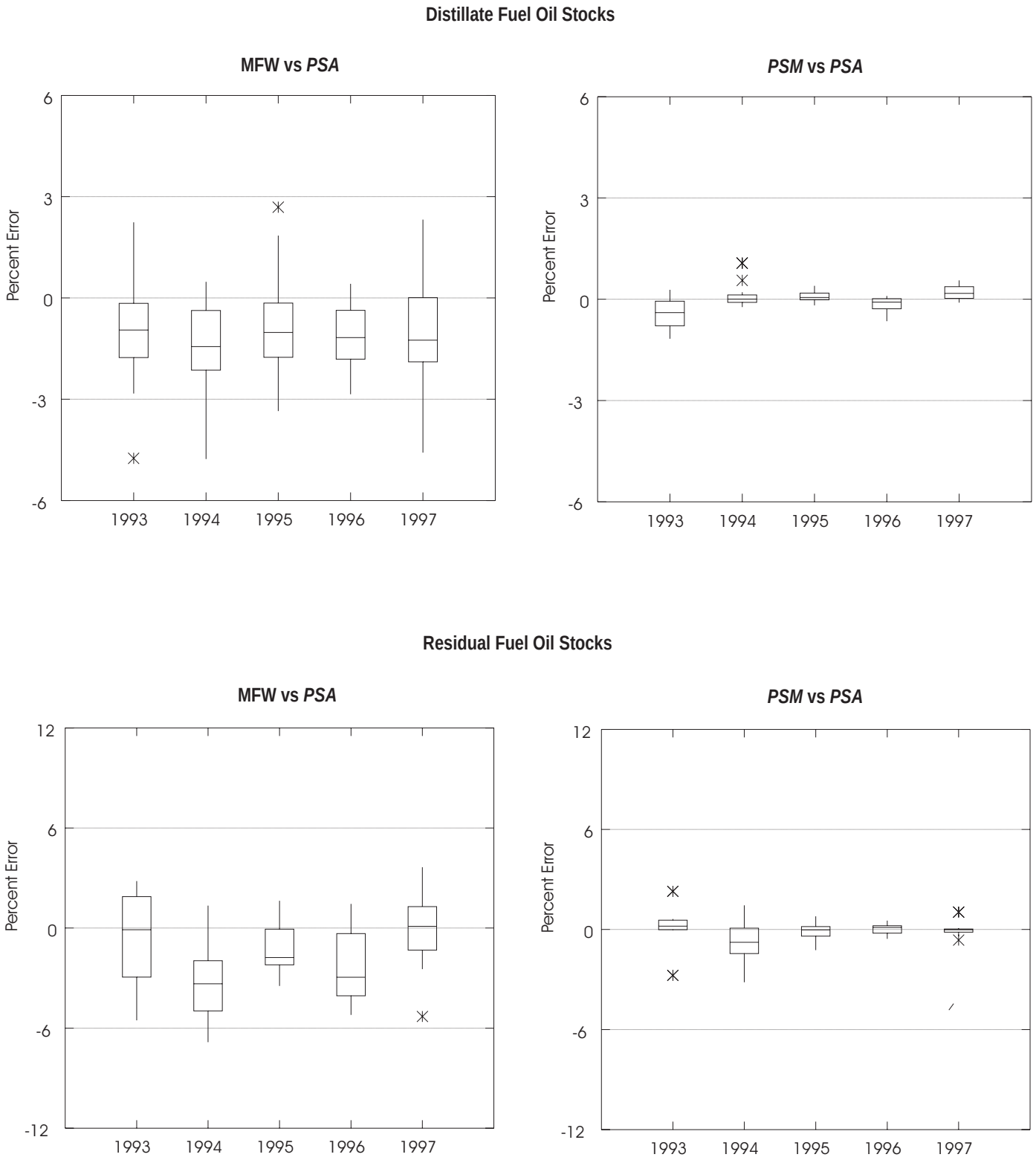
Figure FE11 shows the box and whisker plots for residual fuel oil imports and jet fuel imports. In contrast to prior years, more of the 1997 MFW estimates for residual fuel oil imports were overestimates. Over the 5-year period, 1997 had the largest range (54.62) and the first positive median (4.81). The range (23.79) for the *PSM* percent errors was the largest over the 5-year period, ranging from -10.78 to 13.01 percent. Four of the 5 resubmissions for 1997 *PSM* interim values were outliers: January, July, September, and November. The percent error in September (13.01) was the largest error over the 60 months studied. The ranges of the MFW and *PSM* residuel fuel oil percent errors were the largest of all plots analyzed in 1997.

Figure FE6. Range of Percent Errors for MFW and *PSM* Crude Oil Stocks Excluding Strategic Petroleum Reserve (SPR) and Motor Gasoline Stocks Data, 1993 -1997



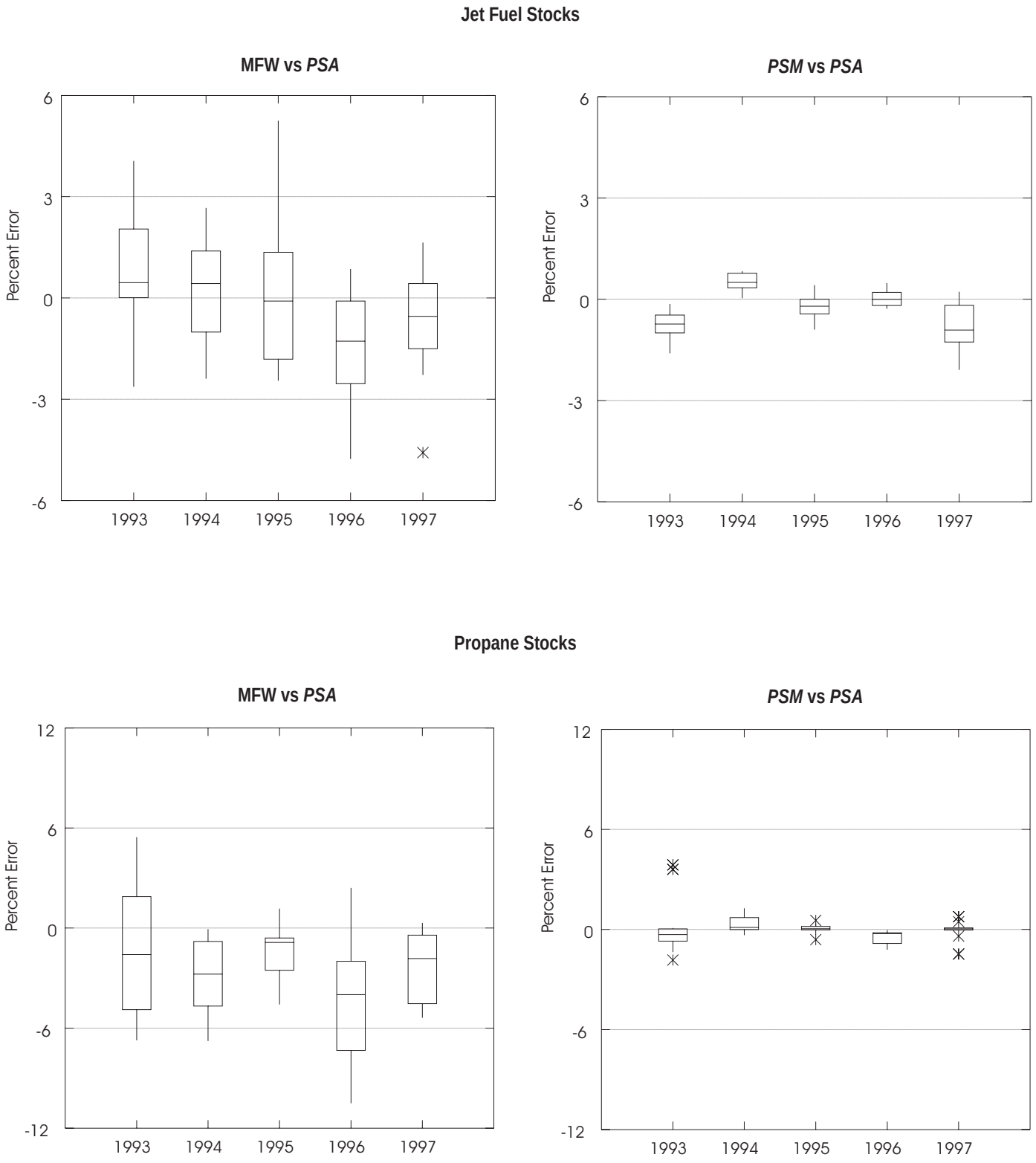
Source: Energy Information Administration, Petroleum Supply Reporting System.

Figure FE7. Range of Percent Errors for MFW and *PSM* Distillate Fuel Oil and Residual Fuel Oil Stocks Data, 1993 - 1997



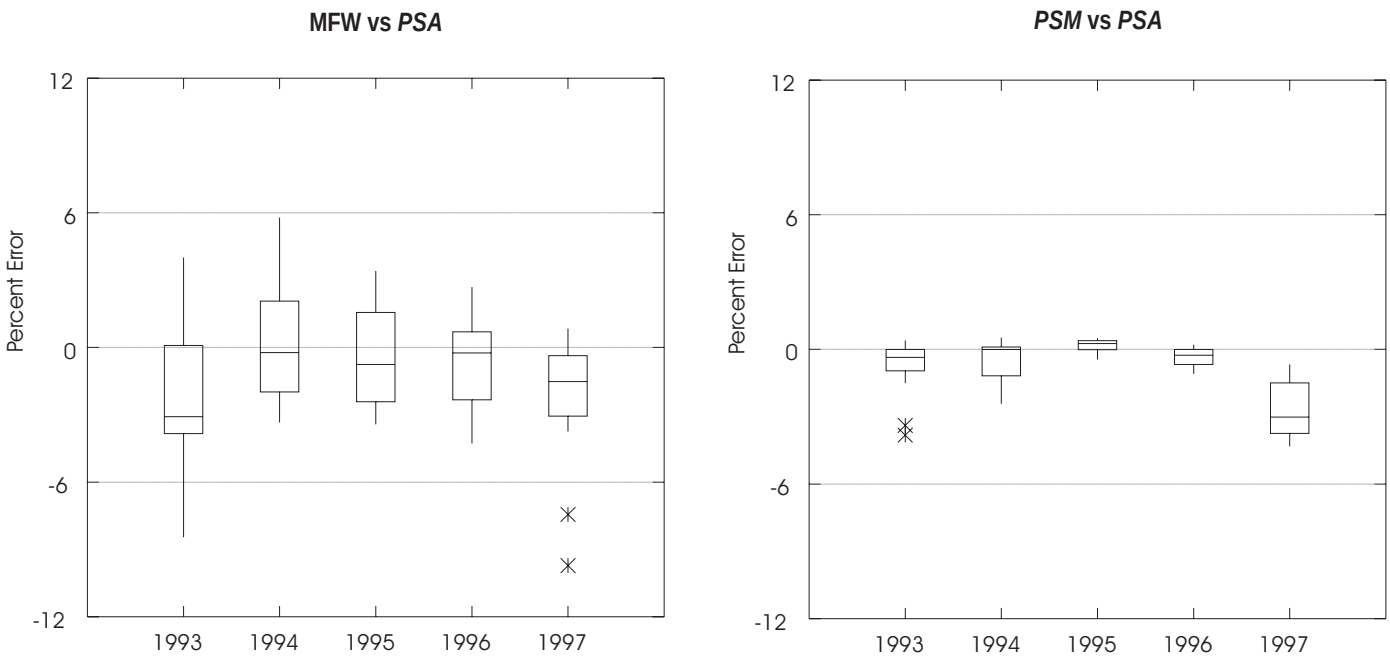
Source: Energy Information Administration, Petroleum Supply Reporting System.

Figure FE8. Range of Percent Errors for MFW and *PSM* Jet Fuel Stocks and Propane Stocks Data, 1993 - 1997



Source: Energy Information Administration, Petroleum Supply Reporting System.

Figure FE9. Range of Percent Errors for MFW and *PSM* Crude Oil Imports Excluding SPR Data, 1993 - 1997



Source: Energy Information Administration, Petroleum Supply Reporting System.

For 1997 MFW percent errors for jet fuel imports, it was the first year the box and whisker plot displayed a median greater than zero. This indicates that more MFW estimates were overestimated rather than underestimated. As in prior years, there were outliers in the 1997 *PSM* percent errors. The three resubmissions occurred in February, March, and October.

Conclusion

In summary, similar to previous years, the interim *PSM* data were closer in value to the final *PSA* volumes than the MFW estimates. This is largely a result of the longer time period provided to process the monthly data and monthly respondents' accounting systems.

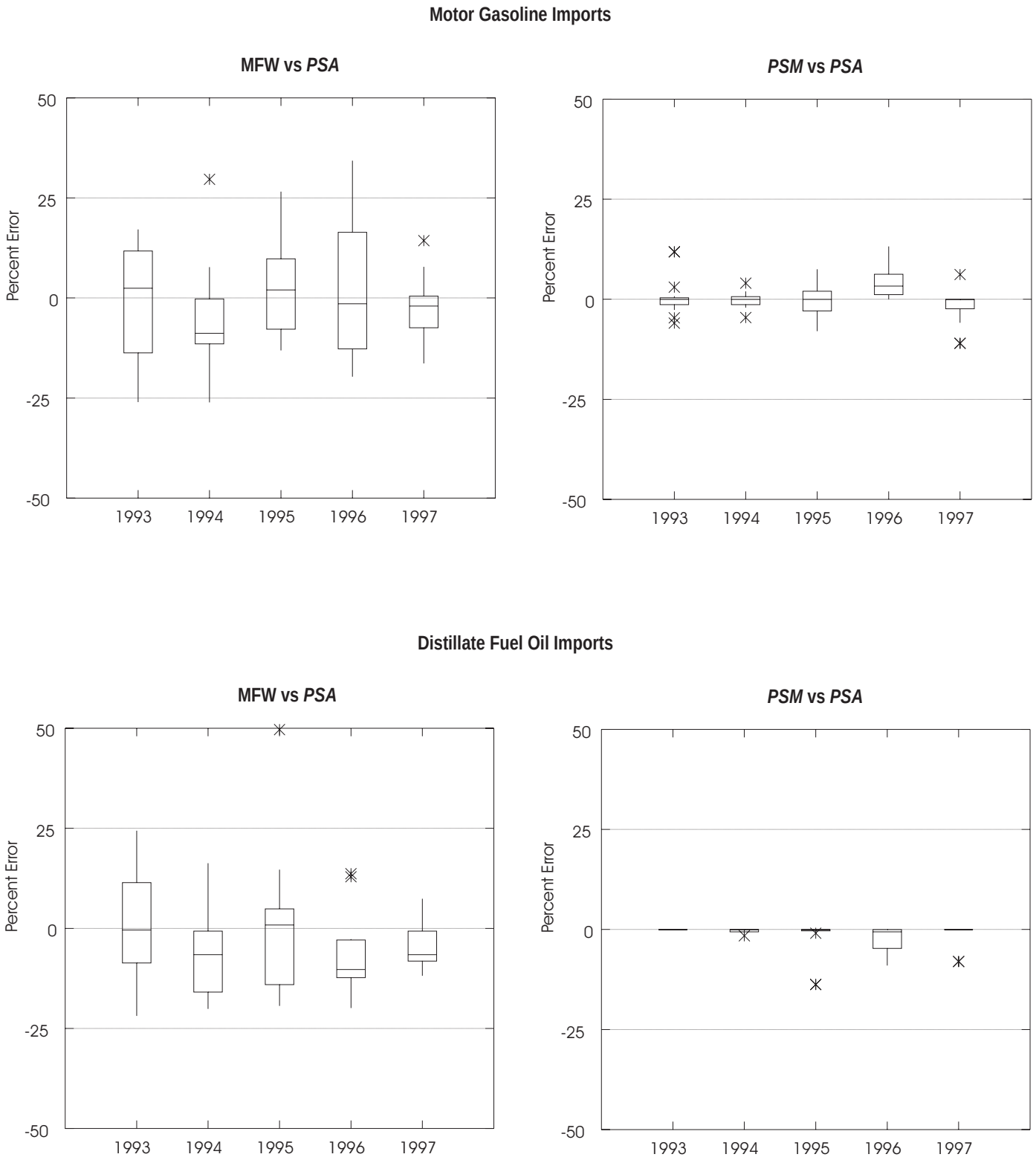
In 1997, 45 of 66 *PSM* interim values were within 1 percent (mean absolute percent error) of the final values; 27 of 61 MFW estimates were within 2 percent (mean absolute percent error) of the final values; and 11 of those 27 were within 1 percent. As in previous years, the accuracy of 1997 preliminary and interim values varied by product and by petroleum supply type. As a group, stocks continued to have the most accurate MFW estimates and *PSM* interim values.

The good coverage for weekly surveys across petroleum supply type and product combinations has contributed to the accuracy of weekly estimates. In 1997, for 20 of the 21 categories, coverage was 90 percent or above. The decrease in response rates for the weekly and monthly surveys were the result of budget cuts at the respondent companies and EIA. However, this did not contribute to a decline in the accuracy of these data.

In December 1997, several key EIA personnel retired and other members of the Petroleum Division (PD) moved to other offices. This change combined with budget reductions produced increased workloads and decreased respondent and nonrespondent followup.

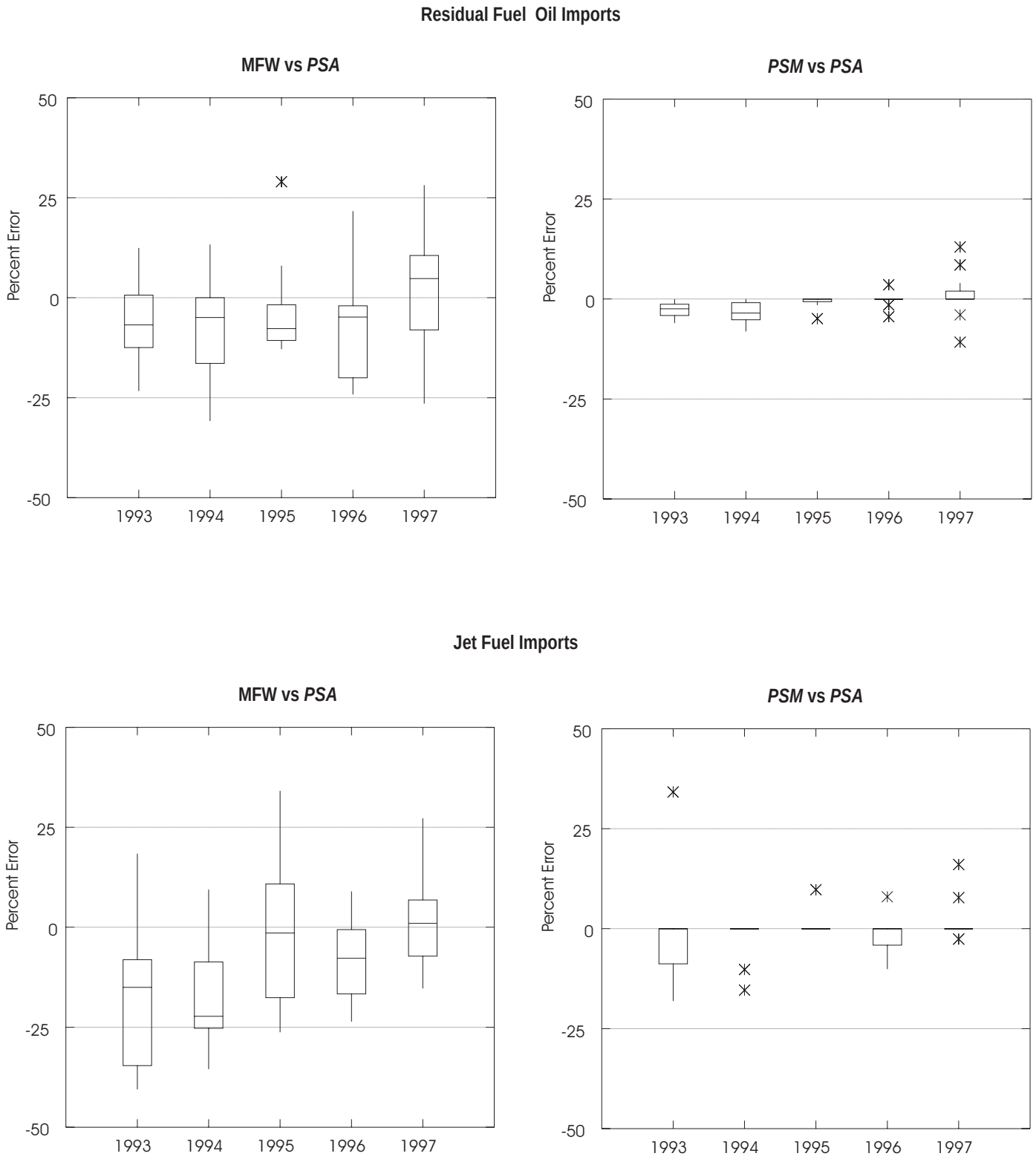
To successfully maintain and improve the accuracy of these data, the PD has made progress in its business re-engineering effort. The organization has been restructured to combine the Petroleum Supply Division and the Petroleum Marketing Division into the Petroleum Division to better serve customer needs, reduce expenditures, and improve efficiencies. In addition, a new group was created called the Collection and Dissemination Division (CDD). This reorganization facilitates major processes including "getting data in the door," survey management, editing, statistical methodology, analysis, publication, and customer outreach. A substantial effort has been made to develop and implement a Windows version of PEDRO, the electronic data collection method. This should contribute to the reduction of both respondent and EIA burden. Budget reductions will affect petroleum data dissemination. As a result of a customer survey, the EIA plans to eliminate EPUB in December 1998. Some other techniques being researched and developed are graphical data validation, optical scanning, and an improved automated data retrieval system, Survey Information System (SIS). Improvements are also being made in survey design, sampling, editing procedures, and edit parameters. The results of these efforts should enable the PD to continue to provide accurate weekly and monthly data estimates.

Figure FE10. Range of Percent Errors for MFW and *PSM* Motor Gasoline and Distillate Fuel Oil Imports Data, 1993 - 1997



Source: Energy Information Administration, Petroleum Supply Reporting System.

Figure FE11. Range of Percent Errors for MFW and *PSM* Residual Fuel Oil and Jet Fuel Imports Data, 1993 - 1997

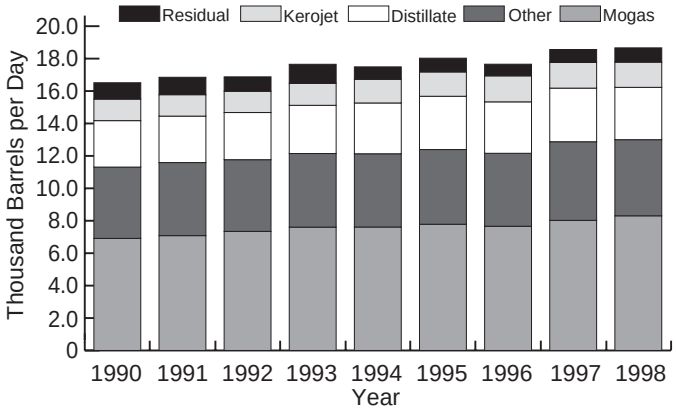


Source: Energy Information Administration, Petroleum Supply Reporting System.

Highlights

Total demand for refined petroleum products in September 1998[1] (measured as products supplied) averaged 18.7 million barrels per day, setting a new record for the month (Table & Figure H1). During the first 9 months of this year total demand for refined petroleum products has averaged 18.6 million barrels per day, close to the record set back in 1978.

Figure H1. Total Demand, 1990-Current, Comparison in September for Products



Source: Energy Information Administration, *Petroleum Supply Annual*, DOE/EIA-0340 (various issues), and *Petroleum Supply Monthly*, DOE/EIA-0109 (various issues).

The Federal Reserve cut short-term interest rates at their September meeting in a preemptive move as growing concerns about the global economic slowdown have policy makers concerned about the effect on the U.S. economy. In a recent speech by Federal Reserve Governor Laurence Meyer, he pointed out that the domestic economy was still moving forward at a high level and that the Federal Reserve would work to sustain domestic growth.[2] Data collected during September by the National Oceanic and Atmospheric Administration reveals that it was an usually hot month as temperatures averaged 35 percent warmer than normal and 33 percent warmer than this time last year.[3] As the hurricane season got underway, the Gulf Coast was affected by tropical storms that shut in some production, caused problems with refinery operations and slowed down imports as some ships were unable to off load their cargos.

September 1998 and third quarter highlights include:

- Finished motor gasoline **demand** set a record high for the month, averaging 8.3 million barrels per day. January through September, demand is up almost 2 percent compared to last year's record for the same period (Figure H2). Since the beginning of the year, production has been at a record pace of 8.0 million barrels per day. **Stocks** of finished motor gasoline ended the month at 163.4 million barrels, more than 5.5 million barrels above last year's level.

- Distillate fuel oil **demand** averaged 3.2 million barrels per day, one the highest levels ever for the month. Demand for distillate fuel oil since the beginning of the year has averaged 3.4 million barrels per day, a new record. **Production** of distillate fuel oil set a record high for the month at an average of 3.5 million barrels per day. Year-to-date production of distillate fuel oil is also at a record pace. Distillate fuel oil **stocks** ended the month totaling 152.2 million barrels, 13.5 million barrels above last year and the highest level for the month since 1986.

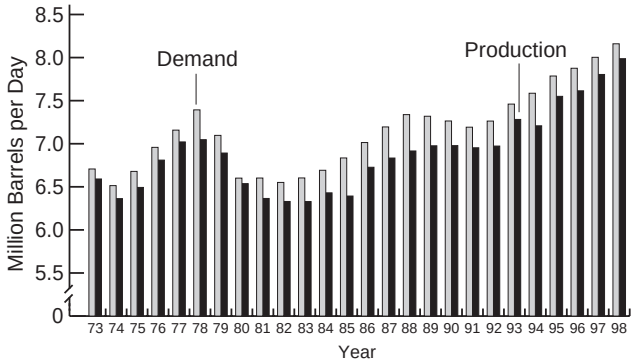
- Residual fuel oil **demand** reached the highest September level since 1993, averaging 878 thousand barrels per day. **Production** of residual fuel oil was also up for the month, averaging 737 thousand barrels per day. Year-to-date figures reflect increases for both demand and production of residual fuel oil. **Stocks** ended the month at 38.7 million barrels, the highest level for September since 1995.

- Kerosene-type jet fuel **demand** declined slightly from last September's level to an average of 1.6 million barrels per day. Kerosene-type jet fuel **production** was also below last September's level, averaging 1.5 million barrels per day. Both production and demand for kerosene-type jet fuel are down for the year. Kerosene-type jet fuel **stocks** ended the month totaling 44.4 million barrels.

- Propane inventories totaled 78.6 million barrels, the highest level to begin the heating season since 1986.

- Crude oil **production** remains similar to the levels in the 1950's, averaging only 6.3 million barrels per day. For the year, domestic production of crude oil is at it's lowest level since 1954. Alaskan field production dropped to 1.1 million barrels per day, the lowest level for the month in over 20 years. Crude oil **imports** averaged 8.4 million barrels per day, half a million barrels per day below the September 1997 record

Figure H2. Finished Motor Gasoline, Year-to-Date September Comparisons, 1973-1998



Source: Energy Information Administration, *Petroleum Supply Annual*, DOE/EIA-0340 (various issues), and *Petroleum Supply Monthly*, DOE/EIA-0109 (various issues).

[1] September 1998 data are monthly-from-weekly estimates based on the Energy Information Administration's Weekly Petroleum Supply Reporting System.
[2] "Fed To Cushion Coming U.S. Slowdown-Meyer", *Reuters*, October 5, 1998, accessible via the Internet at http://dailynews.yahoo.com/headlines/.
[3] "Cooling Degree Day Data Monthly Summary, Monthly Data for September 1998", *National Oceanic Atmospheric Administration*, accessible via the Internet at http://nic.fb4.noaa.gov.

Table H1. Petroleum Supply Summary
(Million Barrels per Day, Except Where Noted)

Category	1998			1997	January - September	
	Estimated September	August	Difference[a]	September	1998	1997
Products Supplied	18.7	19.1	-0.4	18.6	18.6	18.5
Finished Motor Gasoline	8.3	8.5	-0.2	8.0	8.2	8.0
Distillate Fuel Oil	3.2	3.4	-0.2	3.3	3.4	3.4
Residual Fuel Oil	0.9	0.8	(s)	0.8	0.8	0.8
Jet Fuel	1.6	1.5	(s)	1.6	1.5	1.6
Other Petroleum Products[b]	4.7	4.8	-0.1	4.9	4.6	4.7
Crude Oil Inputs	15.0	15.7	-0.7	15.3	15.0	14.6
Operating Utilization Rate (%)	96.0	100.7	-4.7	100.4	97.1	96.1
Imports	10.2	10.8	-0.6	10.5	10.4	10.2
Crude Oil	8.4	9.1	-0.8	8.8	8.6	8.2
Strategic Petroleum Reserve	0.0	0.0	0.0	0.0	0.0	0.0
Other	8.4	9.1	-0.8	8.8	8.6	8.2
Products	1.8	1.7	0.2	1.7	1.8	2.0
Finished Motor Gasoline	0.3	0.3	(s)	0.3	0.3	0.3
Distillate Fuel Oil	0.2	0.2	(s)	0.2	0.2	0.2
Residual Fuel Oil	0.2	0.2	(s)	0.1	0.2	0.2
Jet Fuel	0.1	0.1	(s)	0.1	0.1	0.1
Other Petroleum Products[c]	1.0	0.9	0.1	1.0	1.0	1.2
Exports	1.0	0.8	0.2	1.0	1.0	1.0
Crude Oil	0.1	0.1	0.1	0.1	0.1	0.1
Products	0.9	0.7	0.2	0.9	0.8	0.9
Total Net Imports	9.2	10.0	-0.8	9.5	9.4	9.2
Stock Change[d]	-0.1	0.2	-0.3	0.7	0.4	0.3
Crude Oil	-0.3	-0.3	(s)	0.1	0.1	0.1
Products	0.3	0.5	-0.2	0.6	0.3	0.2
Total Stocks (million barrels)	1,654	1,672	-17	1,592	—	—
Crude Oil	885	894	-8	867	—	—
Strategic Petroleum Reserve	563	563	0	563	—	—
Other	322	330	-8	304	—	—
Products	769	778	-9	725	—	—
Finished Motor Gasoline	163	169	-5	158	—	—
Distillate Fuel Oil	152	150	2	139	—	—
Residual Fuel Oil	39	42	-3	35	—	—
Jet Fuel	44	47	-2	46	—	—
Other Petroleum Products[c]	370	371	(s)	348	—	—

[a] Difference is equal to volume for current month minus volume for previous month.
[b] Includes crude oil product supplied, natural gas liquids, liquefied refinery gases (LRG's), other liquids, and all finished petroleum products except finished motor gasoline, distillate fuel oil, residual fuel oil, and jet fuel.
[c] Includes natural gas liquids, liquefied refinery gases (LRG's), other liquids, and all finished petroleum products except motor gasoline, jet fuel, distillate fuel oil, and residual fuel oil.
[d] A negative number indicates a decrease in stocks and a positive number indicates an increase.
(s) = Less than 0.05 million barrels per day, or less than 0.05 percent, or less than 0.5 million barrels.
Note: Totals may not equal sum of components due to independent rounding.
Source: Energy Information Administration (EIA), 1996, *Petroleum Supply Annual*, Volume II; appropriate issues of the *Petroleum Supply Monthly* and the *Weekly Petroleum Status Report*.

Data for the current month are preliminary estimates, based on weekly submissions. For an explanation of estimation methodology and accuracy, see Appendix A of *Weekly Petroleum Status Report* and the article, "Accuracy of Petroleum Supply Data", published in the December 1997, *Petroleum Supply Monthly.*

Table H2. U.S. Refinery Inputs, Capacities and Utilization Rates: 1997-1998
(Thousand Barrels per Day, Except Where Noted)

Item	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec
1997												
Gross Refinery Inputs	13,771	13,601	14,156	14,465	15,232	15,300	15,190	15,465	15,533	15,127	14,939	15,188
Operating Refinery Capacity[2]	15,168	15,205	15,233	15,229	15,449	15,461	15,462	15,452	15,464	15,464	15,452	15,424
Idle Capacity[3]	284	247	399	387	167	177	177	189	139	139	150	204
Idle Three Months or Less	197	160	220	180	0	10	10	22	12	12	12	66
Idle More than Three Months	87	87	179	207	167	167	167	167	127	127	139	139
Operable Refinery Capacity	15,452	15,452	15,632	15,616	15,616	15,638	15,639	15,641	15,602	15,602	15,602	15,628
Utilization Rate (percent)												
Operating Capacity	90.8	89.5	92.9	95.0	98.6	99.0	98.2	100.1	100.4	97.8	96.7	98.5
Operable Capacity	89.1	88.0	90.6	92.6	97.5	97.8	97.1	98.9	99.6	97.0	95.7	97.2
1998												
Gross Refinery Inputs	14,655	14,340	14,851	15,170	15,305	15,651	15,704	15,806				
Operating Refinery Capacity[2]	15,538	15,555	15,547	15,587	15,617	15,687	15,695	15,689				
Idle Capacity[3]	167	158	184	144	144	135	135	143				
Idle Three Months or Less	41	20	46	0	0	0	0	14				
Idle More than Three Months	127	138	138	144	144	135	135	129				
Operable Refinery Capacity	15,705	15,713	15,732	15,732	15,761	15,822	15,830	15,832				
Utilization Rate (percent)												
Operating Capacity	94.3	92.2	95.5	97.3	98.0	99.8	100.1	100.7				
Operable Capacity	93.3	91.3	94.4	96.4	97.1	98.9	99.2	99.8				

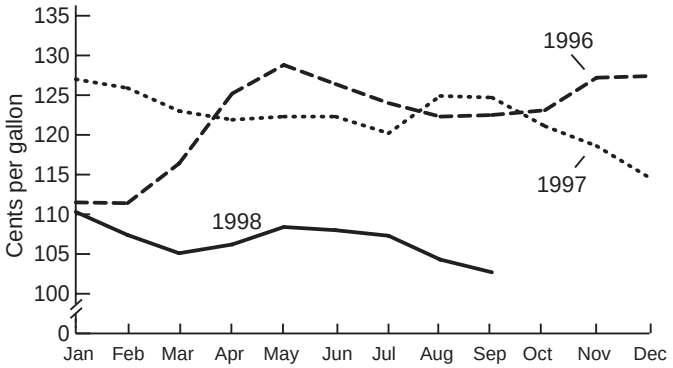
[1]Capacities are on a calendar day basis.
[2]Operating capacity equals the operable capacity less the total idle capacity.
[3] Idle capacity is the component of operable capacity that is not in operation and not under active repair, but is capable of being placed in operation within 30 days; and capacity not in operation but is under active repair that can be completed within 90 days.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Energy Information Administration (EIA), 1997, *Petroleum Supply Annual*, Volume 2, Table 16; EIA, *Petroleum Supply Monthly,* 1998 data issue, Table 28.

high for the month. Since the beginning of the year crude oil imports are averaging 8.6 million barrels per day, a new record. Crude oil **stocks**, excluding the Strategic Petroleum Reserve (SPR), ended the month at 321.8 million barrels.

Motor Gasoline

As the summer driving season came to an end, consumers were treated to the lowest prices yet this year for conventional motor gasoline. The retail price for conventional motor gasoline averaged $1.027 a gallon (including taxes), 22 cents less than last September (Figure H3).[4] Travel during the Labor Day weekend, traditionally viewed as the end of the summer driving season, was estimated to have increased 5 percent from last year as 33.1 million travelers took to the roads for the holiday weekend.[5] Motor gasoline **demand** set a record high for the month, at an average of 8.3 million barrels per day. **Demand for the year is up nearly 2 percent** from the record set last year, averaging 8.2 million barrels per day. Due to refineries going into turnarounds, production of finished motor gasoline was down for the month.[6] **Production** of finished motor gasoline averaged 8.1 million barrels per day, less than 80 thousand barrels per day below the September record. Over the first nine months of the year, production of finished motor gasoline averaged 8.0 million barrels per day, a new record. **Imports** of finished motor gasoline were normal for this time of

Figure H3. Prices for Conventional Motor Gasoline (including taxes), 1996-current



Source: Energy Information Administration, *Weekly Petroleum Status Report,* DOE/EIA-0208 (various issues).

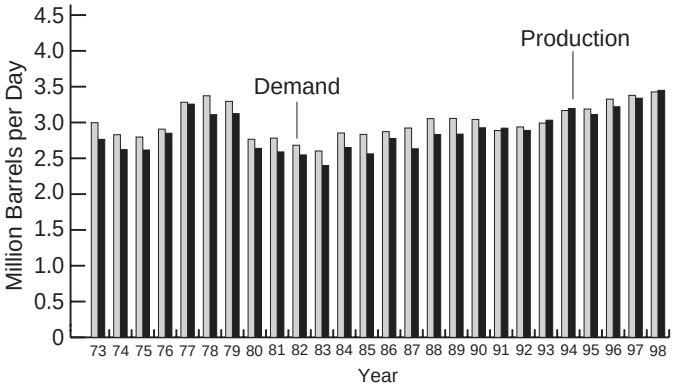
[4] "Table 16. U.S. Retail Motor Gasoline and On-Highway Diesel Fuel Prices, 1997 to Present", *Weekly Petroleum Status Report*, September 25, 1998, p. 27.
[5] "Falling Gasoline Prices Pump Up Holiday Demand", *Oxy-Fuels News Monthly Markets Update*, September 14, 1998, p. 1.
[6] "Gasoline Supply Barometer", *Oil Express*, September 28, 1998, p. 2.

year averaging 321 thousand barrels per day. Imports of finished motor gasoline this year have averaged 301 thousand barrels per day, down from last year's level. Finished motor gasoline **stocks** ended the month 5.5 million barrels above last September's level, totaling 163.4 million barrels.

Distillate Fuel Oil

Demand for distillate fuel oil averaged 3.2 million barrels per day for the month, close to the September record. For the year, demand is at a record pace, averaging 3.4 million barrels per day (Figure H4). Production of distillate fuel oil received a boost as some refineries increased the yield of low-sulfur distillates or downgraded kerosene-type fuel as two airline strikes during the month lowered demand for kerosene-type jet fuel.[7] **Production** of distillate fuel oil set a new September record, averaging 3.5 million barrels per day. Since the beginning of the year, distillate fuel oil production has averaged 3.4 million barrels per day, a new record. **Imports** of distillate fuel oil were normal for the month, averaging 191 thousand barrels per day. For the year, imports are averaging 192 thousand barrels per day, slightly below last year's level. Total **stocks** of distillates ended the month **13.5 million barrels higher than this time last year**. Distillate fuel oil stocks ended the month totaling 152.2 million barrels. Of these stocks, heating oils or high-sulfur distillates accounted for 78.5 million barrels, **nearly 13 percent higher than last September**.

Figure H4. Distillate, Year-to-Date September Comparisons, 1973-1998

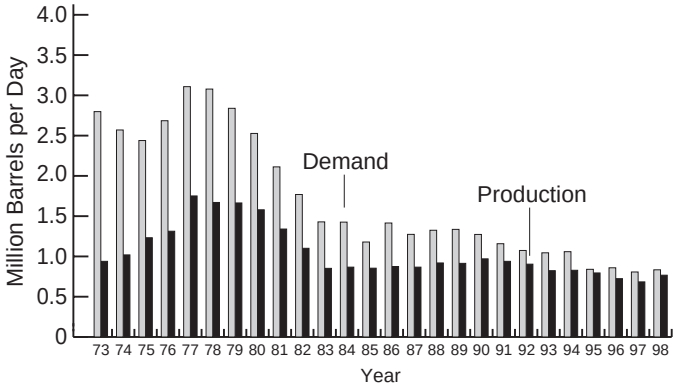


Source: Energy Information Administration, *Petroleum Supply Annual*, DOE/EIA-0340 (various issues), and *Petroleum Supply Monthly*, DOE/EIA-0109 (various issues).

Residual Fuel Oil

Residual fuel oil **production** reached the highest level for the month since 1995, at an average of 737 thousand barrels per day. **Demand** for residual fuel oil averaged 878 thousand barrels per day, the highest level for September since 1993. Year-to-date figures for residual fuel oil reflect increases in both demand and production over last year (Figure H5). This year, demand for residual fuel oil has averaged 834 thousand barrels per day and production has averaged 768 thousand barrels per day. Residual fuel oil **imports** were the highest September in 5 years averaging 223 thousand barrels per day. End-of-month **stocks** totaled 38.7 million barrels, the highest level for September since 1995.

Figure H5. Residual, Year-to-Date September Comparisons, 1973-1998

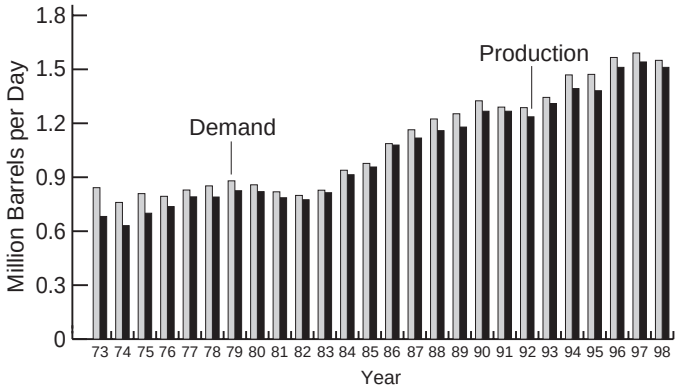


Source: Energy Information Administration, *Petroleum Supply Annual*, DOE/EIA-0340 (various issues), and *Petroleum Supply Monthly*, DOE/EIA-0109 (various issues).

Kerosene-Type Jet Fuel

The recent strike by Northwest Airlines combined with the job walk off by the Air Canada pilots early in the month took some of the air out of kerosene-type jet fuel demand in September.[8] **Demand** for kerosene-type jet fuel averaged 1.6 million barrels per day, a slight decline from last year's level. With the expected decline in demand due to the problems in the airline industry, production was cut back during the month.[9] **Production** of kerosene-type jet fuel averaged 1.5 million barrels per day in September, just shy of last year's level. Since the first of the year, demand for kerosene-type jet fuel has averaged 1.6 million barrels and production 1.5 million barrels per day, both down from their respective highs (Figure H6). Total **imports** of jet fuel, kerosene

Figure H6. Kerojet, Year-to-Date September Comparisons, 1973-1998



Source: Energy Information Administration, *Petroleum Supply Annual*, DOE/EIA-0340 (various issues), and *Petroleum Supply Monthly*, DOE/EIA-0109 (various issues).

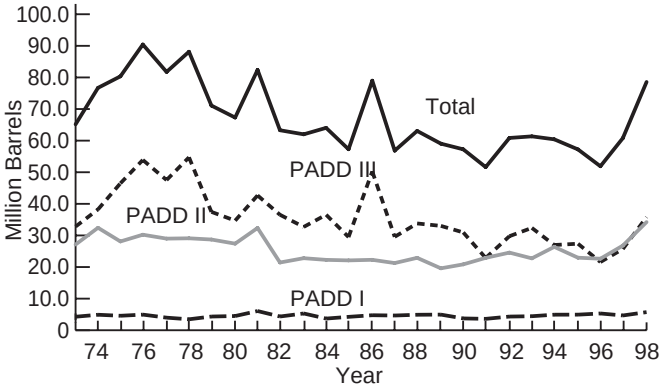
[7] "Strike Creates Turbulence in Jet Fuel Market", *The Oil Daily*, September 8, 1998, p. 1 & 10.
[8] "September Presents Challenge For Oil", *Oil Price Information Service*, September 7, 1998, p. 1.
[9] "Market Firm To Despite Strike", *Oil Price Information Service*, September 14, 1998, p. 15.

and naphtha-type, are down for the year at an average of 74 thousand barrels per day and averaging only 62 thousand barrels per day in September. Kerosene-type jet fuel **stocks** ended the month at 44.4 million barrels, 1.2 million barrels below last September.

Propane

Propane inventories increased a September record 6.0 million barrels to end the month totaling 78.6 million barrels (Figure H7). U.S. propane inventories will start the beginning of the 1998-99 heating season **17.8 million barrels higher than last year** and at the highest level for the month since 1986. Moreover, the final summer stock build measured a record 48.7 million barrels, nearly 15 million barrels higher than the 5-year average of 33.8 million barrels.

Figure H7. Propane Stocks, Year-to-Year September Comparisons, 1973-1998



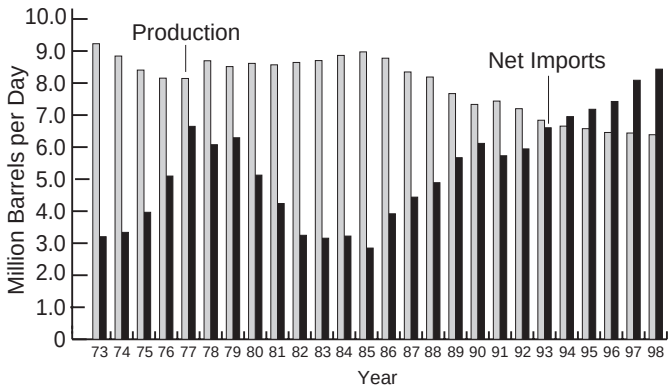
Source: Energy Information Administration, *Petroleum Supply Annual*, DOE/EIA-0340 (various issues), and *Petroleum Supply Monthly*, DOE/EIA-0109 (various issues).

Regionally, stocks showed increases in all major regions during the month. Inventories in the Midwest increased 3.1 million barrels to end the month at 34.2 million barrels. Along the Gulf Coast, inventories increased 3.0 million barrels, for a total of 35.8 million barrels, while propane inventories along the East Coast added another 0.5 million barrels to end the month at 5.7 million barrels. Inventories in both the Midwest and Gulf Coast remained significantly above their respective normal ranges, while East Coast inventories remained moderately above normal.

Crude Oil

Despite the hurricane activity in the Gulf which disrupted production, crude oil production remained relatively flat, increasing only slightly during the month.[10] Domestic crude oil **production** averaged 6.3 million barrels per day, the lowest level for the month since 1954. So far in 1998, domestic production has averaged 6.4 million barrels per day, the **lowest level for this time period in 44 years** (Figure H8). Field production of crude oil in Alaska averaged 1.1 million barrels per day, the lowest level for September in over 20 years. The decline in crude oil output from Alaska continues the trend starting in 1989. This year, production has averaged only 1.2 million barrels per day, the lowest level for this time period since 1977. Making up for the decline in domestic production, **net imports** of crude oil remain strong, averaging 8.4 million barrels per day. Two major U.S. ports were affected by the tropical storms during September, possibly keeping imports from establishing a new record high for the month.[11] Since the start of the year, crude oil imports have been at a record pace, averaging 8.6 million barrels per day, over 4 percent ahead of last year. Net imports, gross imports minus exports, of crude oil averaged 8.3 million barrels per day in September and have set a record for the year at an average of 8.4 million barrels per day.

Figure H8. Crude Oil, Year-to-Date September Comparisons, 1973-1998, Production and Net Imports



Source: Energy Information Administration, *Petroleum Supply Annual*, DOE/EIA-0340 (various issues), and *Petroleum Supply Monthly*, DOE/EIA-0109 (various issues).

Excluding the SPR, crude oil **stocks** totaled 321.8 million barrels by the end of the month. This represents the highest level for this time of year since 1994 and nearly 6 percent higher than last September's month end level. Total crude oil stocks, including the SPR, ended the month nearly 18 million barrels above this time last year. Total crude oil stocks ended the month at 885.2 million barrels.

Refinery Operations

During September, crude oil **inputs** averaged 15.0 million barrels per day, close to the September record established last year. U.S. refineries are running at a record pace this year, crude inputs are averaging 15.0 million barrels per day. During the month, the estimated refinery **operable utilization rate** averaged 95.1 percent verses 99.6 percent last year.

[10] "BN 10/1 Crude Oil Falls Amid Ample Supplies, Even With Storms (Update2)", *Bloomberg*, October 2, 1998, accessible via the Internet at http://www.bloomberg.com/.
[11] "Gulf Spot Oil Prices Follow Futures Higher; Prospect of More Crude Imports Hurts LLS", *The Oil Daily*, September 14, 1998, p. 4.

Table S1. Crude Oil and Petroleum Products Overview, 1982 - Present
(Thousand Barrels per Day, Except Where Noted)

Year/Month	Field Production			Stock Change[a]			Ending Stocks[b] (Million Barrels)
	Total Domestic[c]	Crude Oil	Natural Gas Plant Liquids	Crude Oil[d]	Petroleum Products	Petroleum Products Supplied	Crude Oil[d] and Petroleum Products
1982 Average	**10,252**	**8,649**	**1,550**	**136**	**-283**	**15,296**	[g] **1,430**
1983 Average	**10,299**	**8,688**	**1,559**	[g] **214**	[g] **-234**	**15,231**	**1,454**
1984 Average	**10,554**	**8,879**	**1,630**	**199**	**81**	**15,726**	**1,556**
1985 Average	**10,636**	**8,971**	**1,609**	**50**	**-153**	**15,726**	**1,519**
1986 Average	**10,289**	**8,680**	**1,551**	**78**	**124**	**16,281**	**1,593**
1987 Average	**10,008**	**8,349**	**1,595**	**128**	**-87**	**16,665**	**1,607**
1988 Average	**9,818**	**8,140**	**1,625**	**1**	**-29**	**17,283**	**1,597**
1989 Average	**9,219**	**7,613**	**1,546**	**86**	**-129**	**17,325**	**1,581**
1990 Average	**8,994**	**7,355**	**1,559**	**-35**	**142**	**16,988**	**1,621**
1991 Average	**9,168**	**7,417**	**1,659**	**-42**	**32**	**16,714**	**1,617**
1992 Average	**8,996**	**7,171**	**1,697**	**-1**	**-68**	**17,033**	[g] **1,592**
1993 Average	**8,836**	**6,847**	**1,736**	**81**	[g] **70**	**17,237**	[g] **1,647**
1994 Average	**8,645**	**6,662**	**1,727**	**18**	[g] **-2**	**17,718**	[g] **1,653**
1995 Average	**8,626**	**6,560**	**1,762**	**-93**	**-153**	**17,725**	[g] **1,563**
1996 January	8,564	6,495	1,716	-8	-592	18,261	1,544
February	8,558	6,577	1,680	-63	-1,454	18,620	1,500
March	8,718	6,571	1,814	-132	-464	18,301	1,482
April	8,597	6,444	1,845	29	633	17,885	1,502
May	8,502	6,394	1,806	2	576	17,957	1,520
June	8,550	6,458	1,833	305	593	18,107	1,546
July	8,486	6,338	1,829	-244	358	18,211	1,550
August	8,535	6,360	1,858	-19	-130	18,658	1,545
September	8,623	6,482	1,872	-499	701	17,655	1,551
October	8,685	6,481	1,912	186	-630	19,171	1,538
November	8,730	6,476	1,915	-414	-117	18,535	1,522
December	8,738	6,506	1,876	-627	165	18,334	1,507
Average	**8,607**	**6,465**	**1,830**	**-124**	**-28**	**18,309**	**—**
1997 January	8,470	6,402	1,782	462	-679	18,554	1,501
February	8,708	6,514	1,867	-122	-557	18,398	1,482
March	8,646	6,452	1,876	520	444	17,863	1,512
April	8,604	6,441	1,824	197	4	18,559	1,518
May	8,633	6,474	1,822	230	1,172	18,293	1,561
June	8,610	6,442	1,827	-199	658	18,617	1,575
July	8,608	6,409	1,821	-343	-167	19,107	1,559
August	8,535	6,347	1,831	-283	643	18,565	1,570
September	8,679	6,486	1,845	95	642	18,562	1,592
October	8,624	6,467	1,813	393	-214	19,071	1,598
November	8,565	6,459	1,728	252	-195	18,578	1,600
December	8,662	6,531	1,773	-608	-675	19,250	1,560
Average	**8,611**	**6,452**	**1,817**	**51**	**93**	**18,620**	**—**
1998 January	[E] 8,644	[E] 6,438	1,826	522	-64	18,256	1,576
February	[E] 8,759	[E] 6,538	1,870	49	-169	18,322	1,572
March	[E] 8,608	[E] 6,465	1,846	457	59	18,393	1,588
April	[E] 8,656	[E] 6,484	1,859	492	358	18,624	1,614
May	[E] 8,515	[E] 6,384	1,808	47	1,247	17,876	1,654
June	[E] 8,466	[E] 6,290	1,734	-656	642	18,818	1,654
July	[E] 8,295	[E] 6,322	1,580	200	152	19,140	1,665
August	[RE] 8,368	[RE] 6,276	[R] 1,713	[R] -293	[R] 517	[R] 19,108	[R] 1,672
September*	[E] *8,435*	[PE] *6,299*	[E] *1,703*	[E] *-338*	[E] *268*	[E] *18,661*	[E] *1,654*
9-Mo. Average	[E] **8,525**	[PE] **6,387**	[E] **1,770**	[E] **56**	[E] **339**	[E] **18,579**	**—**
1997 9-Mo. Average	**8,609**	**6,440**	**1,832**	**64**	**247**	**18,502**	**—**
1996 9-Mo. Average	**8,570**	**6,457**	**1,806**	**-70**	**28**	**18,184**	**—**

[a] A negative number indicates a decrease in stocks and a positive number indicates an increase.
[b] Stocks are totals as of end of period.
[c] Includes crude oil, natural gas plant liquids, and other liquids. Beginning in 1993, fuel ethanol blended into finished motor gasoline and oxygenate production from merchant MTBE plants are also included.
[d] Includes stocks located in the Strategic Petroleum Reserve.
[e] Includes crude oil for storage in the Strategic Petroleum Reserve.
[f] Net Imports equal Imports minus Exports.
[g] In January 1981 and 1983, numerous respondents were added to surveys affecting stocks reported and stock change calculations. Stock changes are calculated using new basis stock levels. Bulk terminal and pipeline stocks of oxygenates were added beginning in January 1993. See Summary Statistics Explanatory Note 4.

Footnotes continued on following page.

Table S1. Crude Oil and Petroleum Products Overview, 1982 - Present (Continued)

(Thousand Barrels per Day, Except Where Noted)

Year/Month	Imports			Exports			Net Imports[f]
	Total	Crude Oil[e]	Petroleum Products	Total	Crude Oil	Petroleum Products	
1982 Average	**5,113**	**3,488**	**1,625**	**815**	**236**	**579**	**4,298**
1983 Average	**5,051**	**3,329**	**1,722**	**739**	**164**	**575**	**4,312**
1984 Average	**5,437**	**3,426**	**2,011**	**722**	**181**	**541**	**4,715**
1985 Average	**5,437**	**3,201**	**1,866**	**781**	**204**	**577**	**4,286**
1986 Average	**6,224**	**4,178**	**2,045**	**785**	**154**	**631**	**5,439**
1987 Average	**6,678**	**4,674**	**2,004**	**764**	**151**	**613**	**5,914**
1988 Average	**7,402**	**5,107**	**2,295**	**815**	**155**	**661**	**6,587**
1989 Average	**8,061**	**5,843**	**2,217**	**859**	**142**	**717**	**7,202**
1990 Average	**8,018**	**5,894**	**2,123**	**857**	**109**	**748**	**7,161**
1991 Average	**7,627**	**5,782**	**1,844**	**1,001**	**116**	**885**	**6,626**
1992 Average	**7,888**	**6,083**	**1,805**	**950**	**89**	**861**	**6,938**
1993 Average	**8,620**	**6,787**	**1,833**	**1,003**	**98**	**904**	**7,618**
1994 Average	**8,996**	**7,063**	**1,933**	**942**	**99**	**843**	**8,054**
1995 Average	**8,835**	**7,230**	**1,605**	**949**	**95**	**855**	**7,886**
1996 January	9,364	7,303	2,061	1,070	89	981	8,294
February	8,390	6,612	1,778	1,048	92	956	7,342
March	9,092	7,215	1,877	867	94	773	8,225
April	9,429	7,371	2,058	976	148	828	8,453
May	10,007	8,029	1,977	891	37	854	9,116
June	9,938	7,958	1,980	895	130	766	9,043
July	9,820	7,800	2,020	945	139	806	8,876
August	9,986	8,041	1,944	896	44	852	9,090
September	9,142	7,353	1,789	1,104	147	957	8,038
October	9,837	7,701	2,136	1,045	134	911	8,792
November	9,244	7,344	1,900	1,024	172	852	8,220
December	9,417	7,307	2,110	1,013	96	917	8,404
Average	**9,478**	**7,508**	**1,971**	**981**	**110**	**871**	**8,498**
1997 January	9,763	7,492	2,271	1,038	141	897	8,725
February	9,561	7,434	2,127	1,017	229	787	8,544
March	9,833	7,754	2,079	933	136	796	8,900
April	10,114	7,987	2,127	937	92	845	9,177
May	10,818	8,653	2,165	876	26	851	9,941
June	10,736	8,759	1,978	955	57	898	9,782
July	10,008	8,178	1,830	1,012	70	942	8,996
August	10,465	8,621	1,844	1,074	110	964	9,390
September	10,537	8,840	1,697	997	122	875	9,540
October	10,792	8,927	1,865	1,066	152	914	9,726
November	9,948	8,366	1,582	934	32	901	9,014
December	9,328	7,653	1,675	1,197	131	1,066	8,130
Average	**10,162**	**8,225**	**1,936**	**1,003**	**108**	**896**	**9,158**
1998 January	9,893	8,185	1,708	1,083	231	852	8,811
February	9,577	7,770	1,807	957	197	760	8,620
March	9,694	7,989	1,705	919	99	820	8,775
April	10,398	8,523	1,874	1,029	163	866	9,369
May	10,903	8,957	1,945	1,027	144	883	9,876
June	10,702	8,725	1,977	987	63	924	9,715
July	11,151	9,309	1,842	998	104	894	10,152
August	R 10,829	R 9,143	R 1,686	R 780	R 51	R 729	R 10,049
September*	E *10,217*	E *8,378*	E *1,839*	E *988*	E *104*	E *883*	E *9,229*
9-Mo. Average	E **10,382**	E **8,562**	E **1,820**	E **974**	E **128**	E **846**	E **9,408**
1997 9-Mo. Average	**10,208**	**8,195**	**2,013**	**982**	**108**	**874**	**9,226**
1996 9-Mo. Average	**9,471**	**7,527**	**1,944**	**965**	**102**	**863**	**8,506**

Footnotes continued.

R = Revised data. E = Estimated. PE = Preliminary estimate. RE = Revised estimate.

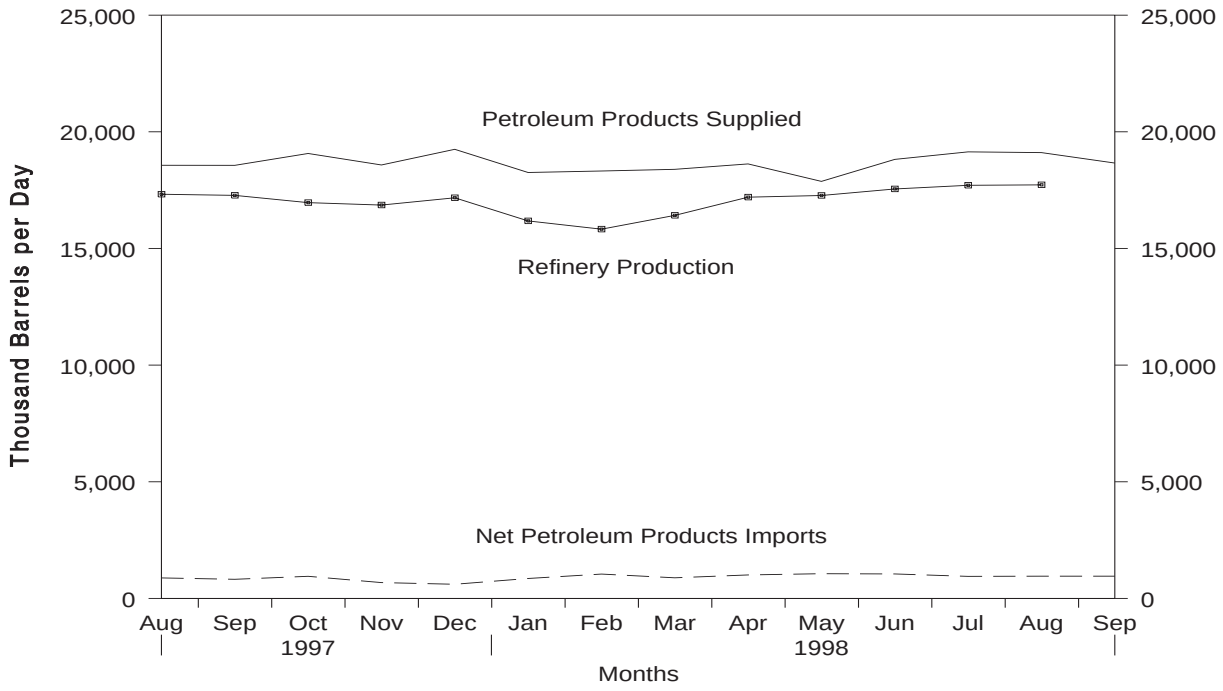
— = Not Applicable.

* See Summary Statistics Explanatory Note 1.

Notes: • Crude oil includes lease condensate. • Italics denote estimates based upon preliminary data. • Geographic coverage is the 50 States and the District of Columbia. • Totals may not equal sum of components due to independent rounding.

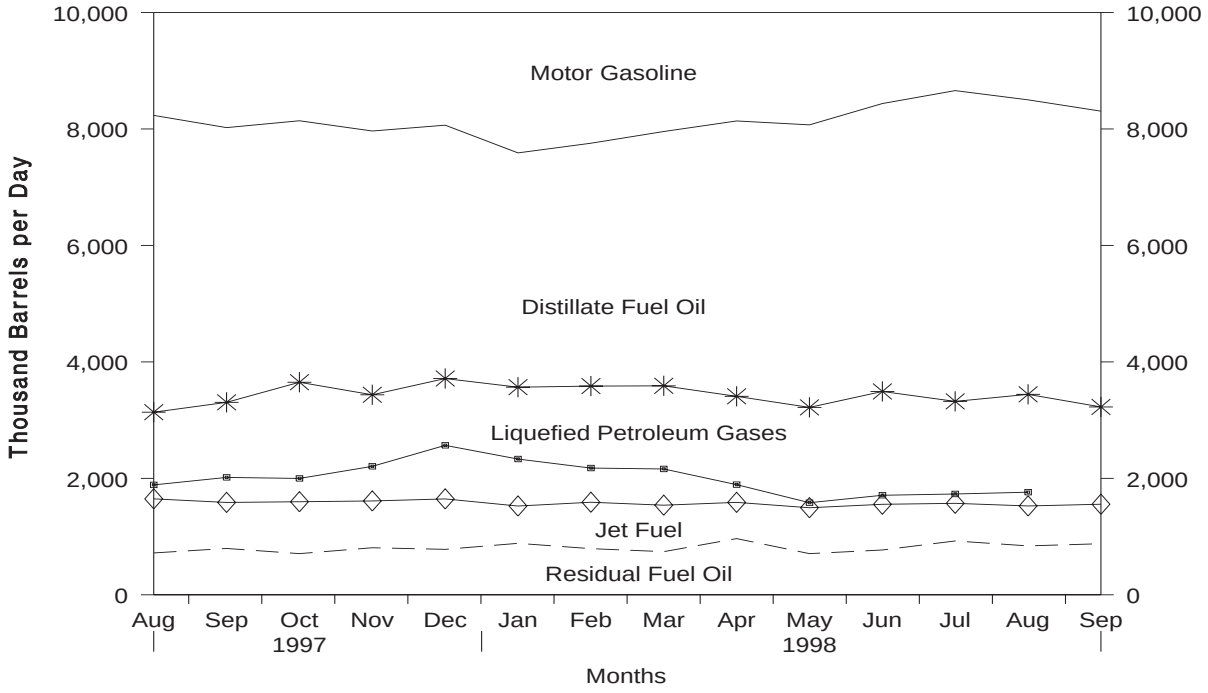
Source: See Summary Statistics Table and Figure Sources.

Figure S1. Petroleum Overview, August 1997 - Present



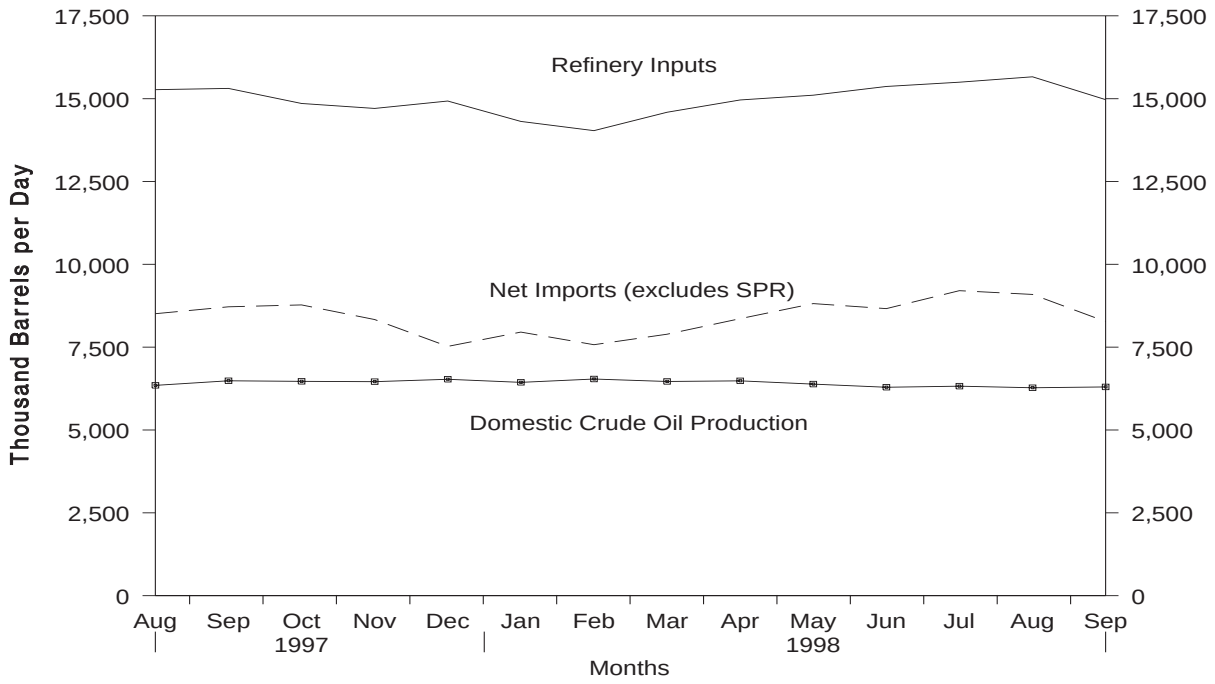
Source: Energy Information Administration, *Petroleum Supply Monthly*, Table S1. See Summary Statistics Table and Figure Sources.

Figure S2. Petroleum Products Supplied, August 1997 - Present



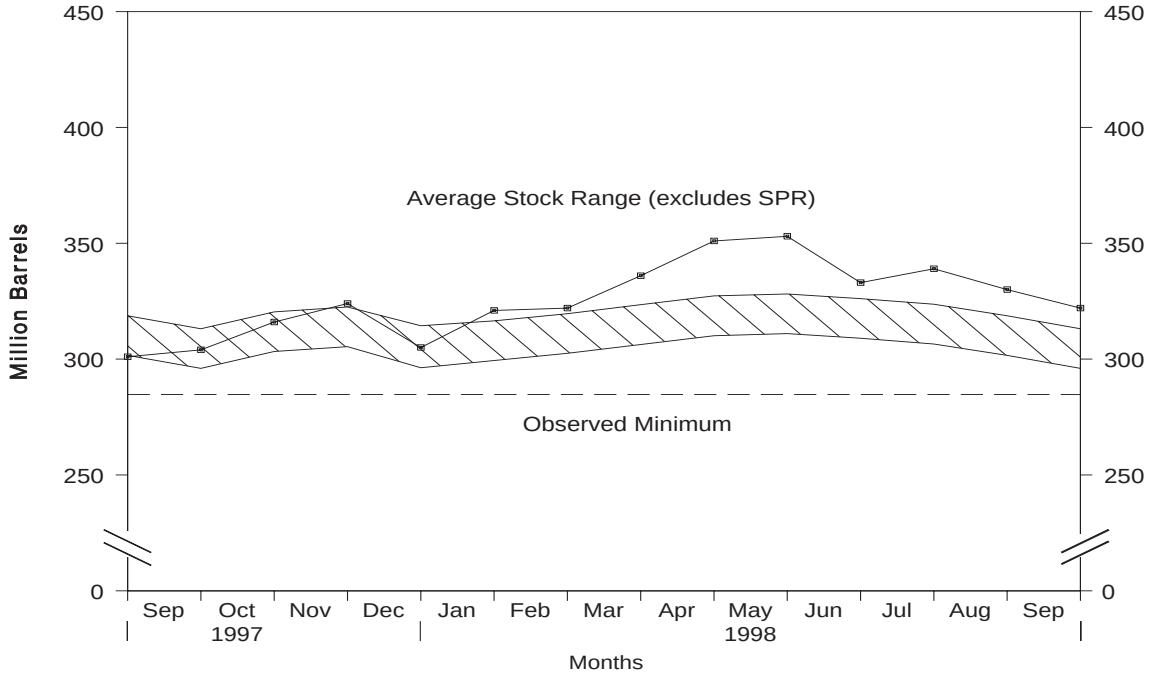
Source: Energy Information Administration, *Petroleum Supply Monthly*, Tables S4-S7, and S9. See Summary Statistics Table and Figure Sources.

Figure S3. Crude Oil Supply and Disposition, August 1997 - Present



Source: Energy Information Administration, *Petroleum Supply Monthly*, Table S2. See Summary Statistics Table and Figure Sources.

Figure S4. Crude Oil Ending Stocks,[1] August 1997 - Present



[1]Excludes stocks held in the Strategic Petroleum Reserve (SPR).
Note: The Observed Minimum for crude oil stocks in the last 36-month period was 284.7 million barrels, occurring in December 1996.
Source: Energy Information Administration, *Petroleum Supply Monthly*, Table S2. See Summary Statistics Table and Figure Sources.

Table S2. Crude Oil Supply and Disposition, 1982 - Present
(Thousand Barrels per Day, Except Where Noted)

Year/Month	Supply						Disposition
	Field Production		Imports			Unaccounted for Crude Oil[c]	Crude Losses
	Total Domestic	Alaskan	Total	SPR	Other		
1982 Average	**8,649**	**1,696**	**3,488**	**165**	**3,323**	**71**	**3**
1983 Average	**8,688**	**1,714**	**3,329**	**234**	**3,096**	**114**	**2**
1984 Average	**8,879**	**1,722**	**3,426**	**197**	**3,229**	**185**	**2**
1985 Average	**8,971**	**1,825**	**3,201**	**118**	**3,083**	**145**	**1**
1986 Average	**8,680**	**1,867**	**4,178**	**48**	**4,130**	**139**	**(s)**
1987 Average	**8,349**	**1,962**	**4,674**	**73**	**4,601**	**145**	**(s)**
1988 Average	**8,140**	**2,017**	**5,107**	**51**	**5,055**	**196**	**(s)**
1989 Average	**7,613**	**1,874**	**5,843**	**56**	**5,787**	**200**	**(s)**
1990 Average	**7,355**	**1,773**	**5,894**	**27**	**5,867**	**258**	**(s)**
1991 Average	**7,417**	**1,798**	**5,782**	**0**	**5,782**	**195**	**(s)**
1992 Average	**7,171**	**1,714**	**6,083**	**10**	**6,073**	**258**	**(s)**
1993 Average	**6,847**	**1,582**	**6,787**	**15**	**6,772**	**168**	**(s)**
1994 Average	**6,662**	**1,559**	**7,063**	**12**	**7,051**	**266**	**(s)**
1995 Average	**6,560**	**1,484**	**7,230**	**0**	**7,230**	**193**	**(s)**
1996 January	6,495	1,444	7,303	0	7,303	20	0
February	6,577	1,482	6,612	0	6,612	413	0
March	6,571	1,454	7,215	0	7,215	-25	0
April	6,444	1,367	7,371	0	7,371	665	(s)
May	6,394	1,341	8,029	0	8,029	61	0
June	6,458	1,419	7,958	0	7,958	594	0
July	6,338	1,317	7,800	0	7,800	121	(s)
August	6,360	1,327	8,041	0	8,041	54	0
September	6,482	1,401	7,353	0	7,353	303	0
October	6,481	1,379	7,701	0	7,701	420	0
November	6,476	1,403	7,344	0	7,344	148	0
December	6,506	1,392	7,307	0	7,307	-153	0
Average	**6,465**	**1,393**	**7,508**	**0**	**7,508**	**215**	**(s)**
1997 January	6,402	1,380	7,492	0	7,492	378	0
February	6,514	1,384	7,434	0	7,434	-350	0
March	6,452	1,331	7,754	0	7,754	501	0
April	6,441	1,330	7,987	0	7,987	167	0
May	6,474	1,303	8,653	0	8,653	257	0
June	6,442	1,260	8,759	0	8,759	-170	0
July	6,409	1,238	8,178	0	8,178	136	0
August	6,347	1,200	8,621	0	8,621	130	0
September	6,486	1,276	8,840	0	8,840	199	0
October	6,467	1,286	8,927	0	8,927	5	0
November	6,459	1,278	8,366	0	8,366	164	0
December	6,531	1,290	7,653	0	7,653	267	0
Average	**6,452**	**1,296**	**8,225**	**0**	**8,225**	**145**	**0**
1998 January	E 6,438	E 1,229	8,185	0	8,185	441	0
February	E 6,538	E 1,238	7,770	0	7,770	-27	0
March	E 6,465	E 1,221	7,989	0	7,989	692	0
April	E 6,484	E 1,200	8,523	0	8,523	609	0
May	E 6,384	E 1,173	8,957	0	8,957	-46	0
June	E 6,290	E 1,135	8,725	0	8,725	-240	0
July	E 6,322	E 1,155	9,309	0	9,309	170	(s)
August	RE 6,276	RE 1,133	R 9,143	0	R 9,143	R (s)	0
September*	PE *6,299*	PE *1,093*	E *8,378*	E *0*	E *8,378*	E *61*	E *0*
9-Mo. Average	PE **6,387**	PE **1,175**	E **8,562**	E **0**	E **8,562**	E **187**	E **(s)**
1997 9-Mo. Average	**6,440**	**1,299**	**8,195**	**0**	**8,195**	**145**	**0**
1996 9-Mo. Average	**6,457**	**1,394**	**7,527**	**0**	**7,527**	**241**	**(s)**

[a] Stocks are totals as of end of period.
[b] A negative number indicates a decrease in stocks and a positive number indicates an increase.
[c] Unaccounted for crude oil represents the difference between the supply and disposition of crude oil. Preliminary estimates of crude oil imports at the National level have historically understated final values by approximately 50 thousand barrels per day. This causes the preliminary values of unaccounted for crude oil to overstate the final values by the same amount.
[d] Previously published as crude used directly.
[e] Stock changes are calculated using new basis stock levels. See Summary Statistics Explanatory Note 4.
Footnotes continued on following page.

Table S2. Crude Oil Supply and Disposition, 1982 - Present (Continued)
(Thousand Barrels per Day, Except Where Noted)

Year/Month		Disposition					Ending Stocks[a] (Million Barrels)		
		Stock Change[b]							
		SPR	Other	Refinery Inputs	Exports	Product Supplied	Total	SPR	Other Primary
1982	**Average**	**174**	**-38**	**11,774**	**236**	[d] **59**	[e] **644**	**294**	[e] **350**
1983	**Average**	**234**	[e] **-20**	**11,685**	**164**	**66**	**723**	**379**	**344**
1984	**Average**	**195**	**4**	**12,044**	**181**	**64**	**796**	**451**	**345**
1985	**Average**	**117**	**-67**	**12,002**	**204**	**60**	**814**	**493**	**321**
1986	**Average**	**50**	**28**	**12,716**	**154**	**49**	**843**	**512**	**331**
1987	**Average**	**80**	**49**	**12,854**	**151**	**34**	**890**	**541**	**349**
1988	**Average**	**52**	**-51**	**13,246**	**155**	**40**	**890**	**560**	**330**
1989	**Average**	**56**	**30**	**13,401**	**142**	**28**	**921**	**580**	**341**
1990	**Average**	**16**	**-51**	**13,409**	**109**	**24**	**908**	**586**	**323**
1991	**Average**	**-47**	**5**	**13,301**	**116**	**18**	**893**	**569**	**325**
1992	**Average**	**17**	**-18**	**13,411**	**89**	**13**	**893**	**575**	**318**
1993	**Average**	**34**	**47**	**13,613**	**98**	**10**	**922**	**587**	**335**
1994	**Average**	**13**	**5**	**13,866**	**99**	**9**	**929**	**592**	**337**
1995	**Average**	**(s)**	**-93**	**13,973**	**95**	**7**	**895**	**592**	**303**
1996	January	(s)	-8	13,728	89	11	895	592	303
	February	(s)	-62	13,564	92	8	893	592	301
	March	-80	-52	13,793	94	7	889	589	300
	April	-88	117	14,295	148	6	890	586	303
	May	-22	24	14,439	37	7	890	586	304
	June	-45	350	14,569	130	6	899	584	314
	July	-50	-194	14,359	139	5	891	583	308
	August	-172	153	14,424	44	6	891	578	313
	September	-130	-368	14,484	147	6	876	574	302
	October	-1	187	14,277	134	5	882	574	308
	November	-127	-288	14,204	172	5	869	570	299
	December	-129	-498	14,185	96	6	850	566	284
	Average	**-71**	**-53**	**14,195**	**110**	**6**	**—**	**—**	**—**
1997	January	-75	537	13,664	141	5	864	563	301
	February	(s)	-121	13,485	229	6	861	563	297
	March	(s)	520	14,047	136	5	877	563	313
	April	(s)	197	14,303	92	3	883	563	319
	May	(s)	230	15,123	26	4	890	563	326
	June	(s)	-199	15,170	57	2	884	563	320
	July	(s)	-343	14,994	70	2	873	563	310
	August	(s)	-283	15,271	110	(s)	864	563	301
	September	(s)	95	15,308	122	(s)	867	563	304
	October	(s)	393	14,854	152	0	879	563	316
	November	(s)	252	14,706	32	0	887	563	324
	December	(s)	-607	14,928	131	0	868	563	305
	Average	**-7**	**57**	**14,662**	**108**	**2**	**—**	**—**	**—**
1998	January	(s)	522	14,313	231	0	884	563	321
	February	(s)	50	14,034	197	0	886	563	322
	March	0	457	14,590	99	0	900	563	336
	April	0	492	14,961	163	0	915	563	351
	May	(s)	47	15,104	144	0	916	563	353
	June	(s)	-656	15,368	63	0	896	563	333
	July	(s)	201	15,496	104	0	903	563	339
	August	[R] 0	[R] -293	[R] 15,660	[R] 51	0	[R] 894	563	[R] 330
	September*	[E] *0*	[E] *-338*	[E] *14,971*	[E] *104*	[E] *0*	[E] *885*	[E] *563*	[E] *322*
	9-Mo. Average	[E] **(s)**	[E] **56**	[E] **14,953**	[E] **128**	[E] **0**	**—**	**—**	**—**
1997	**9-Mo. Average**	**-9**	**73**	**14,605**	**108**	**3**	**—**	**—**	**—**
1996	**9-Mo. Average**	**-66**	**-4**	**14,185**	**102**	**7**	**—**	**—**	**—**

Footnotes continued.
R = Revised data. (s) = Less than 500 barrels per day. E = Estimated. PE = Preliminary estimate. RE = Revised estimate.
SPR = Strategic Petroleum Reserve.
— = Not Applicable.
* See Summary Statistics Explanatory Note 1.
Notes: • Crude oil includes lease condensate. • Italics denote estimates based upon preliminary data. • Geographic coverage is the 50 States and the District of Columbia. • Totals may not equal sum of components due to independent rounding.
Source: See Summary Statistics Table and Figure Sources.

Table S3. Crude Oil and Petroleum Product Imports, 1982 - Present
(Thousand Barrels per Day)

Year/Month		Imports from Arab-OPEC Sources							
		Algeria		Iraq		Kuwait[b]		Libya	
		Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1982	**Average**	**170**	**90**	**3**	**3**	**5**	**2**	**26**	**23**
1983	**Average**	**240**	**176**	**10**	**10**	**14**	**7**	**0**	**0**
1984	**Average**	**323**	**194**	**12**	**12**	**36**	**24**	**1**	**0**
1985	**Average**	**187**	**84**	**46**	**46**	**21**	**4**	**4**	**0**
1986	**Average**	**271**	**78**	**81**	**81**	**68**	**28**	**0**	**0**
1987	**Average**	**295**	**115**	**83**	**82**	**84**	**70**	**0**	**0**
1988	**Average**	**300**	**58**	**345**	**343**	**92**	**80**	**0**	**0**
1989	**Average**	**269**	**60**	**449**	**441**	**157**	**155**	**0**	**0**
1990	**Average**	**280**	**63**	**518**	**514**	**86**	**79**	**0**	**0**
1991	**Average**	**253**	**44**	**0**	**0**	**6**	**6**	**0**	**0**
1992	**Average**	**196**	**24**	**0**	**0**	**51**	**39**	**0**	**0**
1993	**Average**	**220**	**24**	**0**	**0**	**353**	**344**	**0**	**0**
1994	**Average**	**243**	**21**	**0**	**0**	**312**	**307**	**0**	**0**
1995	**Average**	**234**	**27**	**0**	**0**	**218**	**213**	**0**	**0**
1996	January	313	38	0	0	148	145	0	0
	February	200	16	0	0	216	216	0	0
	March	241	38	0	0	127	127	0	0
	April	211	2	0	0	201	201	0	0
	May	340	0	0	0	230	230	0	0
	June	313	0	0	0	388	388	0	0
	July	305	0	0	0	266	266	0	0
	August	323	0	0	0	271	266	0	0
	September	186	0	0	0	236	236	0	0
	October	209	0	0	0	260	260	0	0
	November	214	3	0	0	228	228	0	0
	December	214	0	14	14	262	262	0	0
	Average	**256**	**8**	**1**	**1**	**236**	**235**	**0**	**0**
1997	January	282	0	0	0	209	209	0	0
	February	319	0	0	0	172	172	0	0
	March	309	0	35	35	315	315	0	0
	April	320	23	84	84	204	204	0	0
	May	290	0	102	102	128	128	0	0
	June	349	0	115	115	361	361	0	0
	July	291	0	88	88	331	331	0	0
	August	261	4	(s)	(s)	229	229	0	0
	September	259	6	0	0	322	322	0	0
	October	272	3	177	177	349	349	0	0
	November	267	7	220	220	220	220	0	0
	December	208	28	240	240	188	188	0	0
	Average	**285**	**6**	**89**	**89**	**253**	**253**	**0**	**0**
1998	January	306	9	36	36	194	194	0	0
	February	295	7	0	0	283	283	0	0
	March	244	13	127	127	307	307	0	0
	April	336	0	233	233	262	262	0	0
	May	330	16	137	137	399	399	0	0
	June	362	31	270	270	275	275	0	0
	July	308	26	277	277	435	435	0	0
	August	264	10	713	713	273	273	0	0
	8-Mo. Average	**305**	**14**	**227**	**227**	**304**	**304**	**0**	**0**
1997	**8-Mo. Average**	**302**	**3**	**53**	**53**	**244**	**244**	**0**	**0**
1996	**8-Mo. Average**	**281**	**12**	**0**	**0**	**231**	**230**	**0**	**0**

See footnotes at end of table.

Table S3. Crude Oil and Petroleum Product Imports, 1982 - Present (Continued)
(Thousand Barrels per Day)

Year/Month		Imports from Arab-OPEC Sources							
		Qatar		Saudi Arabia[b]		United Arab Emirates		Total Arab OPEC	
		Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1982	**Average**	**7**	**7**	**552**	**530**	**92**	**81**	**854**	**736**
1983	**Average**	**(s)**	**0**	**337**	**321**	**30**	**18**	**632**	**533**
1984	**Average**	**5**	**4**	**325**	**309**	**117**	**90**	**819**	**634**
1985	**Average**	**(s)**	**0**	**168**	**132**	**45**	**35**	**472**	**300**
1986	**Average**	**13**	**12**	**685**	**618**	**44**	**38**	**1,162**	**854**
1987	**Average**	**0**	**0**	**751**	**642**	**61**	**56**	**1,274**	**965**
1988	**Average**	**0**	**0**	**1,073**	**911**	**29**	**23**	**1,839**	**1,415**
1989	**Average**	**2**	**2**	**1,224**	**1,116**	**28**	**21**	**2,130**	**1,794**
1990	**Average**	**4**	**4**	**1,339**	**1,195**	**17**	**9**	**2,244**	**1,864**
1991	**Average**	**0**	**0**	**1,802**	**1,703**	**3**	**2**	**2,064**	**1,754**
1992	**Average**	**1**	**0**	**1,720**	**1,597**	**6**	**0**	**1,974**	**1,660**
1993	**Average**	**1**	**0**	**1,414**	**1,282**	**14**	**12**	**2,000**	**1,661**
1994	**Average**	**0**	**0**	**1,402**	**1,297**	**13**	**11**	**1,970**	**1,636**
1995	**Average**	**0**	**0**	**1,344**	**1,260**	**10**	**5**	**1,806**	**1,505**
1996	January	0	0	1,398	1,334	0	0	1,859	1,517
	February	0	0	1,128	1,053	0	0	1,544	1,285
	March	0	0	1,422	1,318	0	0	1,790	1,484
	April	0	0	1,288	1,200	0	0	1,700	1,403
	May	0	0	1,518	1,414	0	0	2,087	1,643
	June	0	0	1,138	1,035	11	11	1,850	1,433
	July	0	0	1,548	1,371	4	4	2,123	1,642
	August	0	0	1,477	1,333	0	0	2,070	1,599
	September	0	0	1,355	1,255	0	0	1,777	1,491
	October	0	0	1,357	1,209	17	17	1,844	1,486
	November	0	0	1,297	1,201	0	0	1,738	1,432
	December	0	0	1,400	1,236	0	0	1,889	1,511
	Average	**0**	**0**	**1,363**	**1,248**	**3**	**3**	**1,859**	**1,496**
1997	January	0	0	1,344	1,253	0	0	1,835	1,462
	February	0	0	1,361	1,250	0	0	1,852	1,421
	March	0	0	1,292	1,157	0	0	1,950	1,506
	April	15	0	1,573	1,408	0	0	2,197	1,720
	May	0	0	1,475	1,333	0	0	1,996	1,564
	June	0	0	1,299	1,174	6	0	2,130	1,650
	July	0	0	1,313	1,188	14	0	2,037	1,607
	August	0	0	1,636	1,516	0	0	2,127	1,750
	September	0	0	1,599	1,511	0	0	2,180	1,839
	October	16	0	1,377	1,282	0	0	2,191	1,812
	November	0	0	1,308	1,257	0	0	2,015	1,704
	December	15	0	1,311	1,192	0	0	1,962	1,649
	Average	**4**	**0**	**1,407**	**1,293**	**2**	**0**	**2,040**	**1,641**
1998	January	0	0	1,500	1,422	0	0	2,035	1,660
	February	18	18	1,415	1,305	0	0	2,011	1,614
	March	0	0	1,508	1,359	13	13	2,199	1,819
	April	0	0	1,470	1,305	20	20	2,322	1,821
	May	0	0	1,352	1,273	0	0	2,218	1,824
	June	15	0	1,631	1,550	0	0	2,554	2,126
	July	15	0	1,609	1,575	0	0	2,644	2,313
	August	0	0	1,500	1,468	0	0	2,750	2,463
	8-Mo. Average	**6**	**2**	**1,499**	**1,408**	**4**	**4**	**2,345**	**1,959**
1997	**8-Mo. Average**	**2**	**0**	**1,412**	**1,285**	**3**	**0**	**2,016**	**1,586**
1996	**8-Mo. Average**	**0**	**0**	**1,368**	**1,260**	**2**	**2**	**1,882**	**1,503**

See footnotes at end of table.

Table S3. Crude Oil and Petroleum Product Imports, 1982 - Present (Continued)
(Thousand Barrels per Day)

Year/Month		Imports from Other-OPEC Sources							
		Ecuador[c]		Gabon[d]		Indonesia		Iran	
		Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1982	**Average**	**42**	**32**	**40**	**40**	**248**	**226**	**35**	**35**
1983	**Average**	**61**	**56**	**59**	**59**	**338**	**315**	**48**	**48**
1984	**Average**	**55**	**47**	**58**	**57**	**343**	**304**	**10**	**10**
1985	**Average**	**67**	**56**	**52**	**51**	**314**	**292**	**27**	**27**
1986	**Average**	**77**	**64**	**26**	**25**	**318**	**297**	**19**	**19**
1987	**Average**	**29**	**23**	**35**	**35**	**285**	**262**	**98**	**98**
1988	**Average**	**47**	**33**	**16**	**15**	**205**	**186**	**[g] (s)**	**[g] (s)**
1989	**Average**	**89**	**80**	**50**	**49**	**183**	**158**	**0**	**0**
1990	**Average**	**49**	**38**	**64**	**64**	**114**	**98**	**0**	**0**
1991	**Average**	**63**	**53**	**84**	**84**	**111**	**102**	**32**	**32**
1992	**Average**	**65**	**62**	**124**	**123**	**78**	**70**	**0**	**0**
1993	**Average**	**81**	**78**	**152**	**151**	**81**	**65**	**0**	**0**
1994	**Average**	**(c)**	**(c)**	**194**	**194**	**111**	**92**	**0**	**0**
1995	**Average**	**(c)**	**(c)**	**(d)**	**(d)**	**88**	**64**	**0**	**0**
1996	January	(c)	(c)	(d)	(d)	52	43	0	0
	February	(c)	(c)	(d)	(d)	44	43	0	0
	March	(c)	(c)	(d)	(d)	58	55	0	0
	April	(c)	(c)	(d)	(d)	57	57	0	0
	May	(c)	(c)	(d)	(d)	49	15	0	0
	June	(c)	(c)	(d)	(d)	72	65	0	0
	July	(c)	(c)	(d)	(d)	56	48	0	0
	August	(c)	(c)	(d)	(d)	53	49	0	0
	September	(c)	(c)	(d)	(d)	26	26	0	0
	October	(c)	(c)	(d)	(d)	125	82	0	0
	November	(c)	(c)	(d)	(d)	36	12	0	0
	December	(c)	(c)	(d)	(d)	81	32	0	0
	Average	**(c)**	**(c)**	**(d)**	**(d)**	**59**	**44**	**0**	**0**
1997	January	(c)	(c)	(d)	(d)	55	38	0	0
	February	(c)	(c)	(d)	(d)	51	39	0	0
	March	(c)	(c)	(d)	(d)	18	15	0	0
	April	(c)	(c)	(d)	(d)	40	32	0	0
	May	(c)	(c)	(d)	(d)	86	86	0	0
	June	(c)	(c)	(d)	(d)	57	50	0	0
	July	(c)	(c)	(d)	(d)	73	66	0	0
	August	(c)	(c)	(d)	(d)	24	21	0	0
	September	(c)	(c)	(d)	(d)	90	83	0	0
	October	(c)	(c)	(d)	(d)	42	42	0	0
	November	(c)	(c)	(d)	(d)	79	74	0	0
	December	(c)	(c)	(d)	(d)	84	68	0	0
	Average	**(c)**	**(c)**	**(d)**	**(d)**	**58**	**51**	**0**	**0**
1998	January	(c)	(c)	(d)	(d)	36	33	0	0
	February	(c)	(c)	(d)	(d)	24	24	0	0
	March	(c)	(c)	(d)	(d)	50	47	0	0
	April	(c)	(c)	(d)	(d)	44	26	0	0
	May	(c)	(c)	(d)	(d)	21	21	0	0
	June	(c)	(c)	(d)	(d)	0	0	0	0
	July	(c)	(c)	(d)	(d)	96	84	0	0
	August	(c)	(c)	(d)	(d)	59	41	0	0
	8-Mo. Average	**(c)**	**(c)**	**(d)**	**(d)**	**42**	**35**	**0**	**0**
1997	**8-Mo. Average**	**(c)**	**(c)**	**(d)**	**(d)**	**51**	**43**	**0**	**0**
1996	**8-Mo. Average**	**(c)**	**(c)**	**(d)**	**(d)**	**55**	**47**	**0**	**0**

See footnotes at end of table.

Table S3. Crude Oil and Petroleum Product Imports, 1982 - Present (Continued)
(Thousand Barrels per Day)

Year/Month		Imports from Other-OPEC Sources						Total OPEC[c,d,e]	
		Nigeria		Venezuela		Total Other OPEC[c,d]			
		Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1982	**Average**	**514**	**510**	**412**	**155**	**1,291**	**998**	**2,146**	**1,734**
1983	**Average**	**302**	**301**	**422**	**164**	**1,231**	**944**	**1,862**	**1,477**
1984	**Average**	**216**	**207**	**548**	**253**	**1,230**	**878**	**2,049**	**1,512**
1985	**Average**	**293**	**280**	**605**	**306**	**1,358**	**1,012**	**1,830**	**1,312**
1986	**Average**	**440**	**437**	**793**	**416**	**1,674**	**1,259**	**2,837**	**2,113**
1987	**Average**	**535**	**529**	**804**	**488**	**1,787**	**1,435**	**3,060**	**2,400**
1988	**Average**	**618**	**607**	**794**	**439**	**1,681**	**1,281**	**3,520**	**2,696**
1989	**Average**	**815**	**800**	**873**	**495**	**2,010**	**1,582**	**4,140**	**3,376**
1990	**Average**	**800**	**784**	**1,025**	**666**	**2,052**	**1,650**	**4,296**	**3,514**
1991	**Average**	**703**	**683**	**1,035**	**668**	**2,028**	**1,622**	**4,092**	**3,377**
1992	**Average**	**681**	**665**	**1,170**	**826**	**2,117**	**1,746**	**4,092**	**3,406**
1993	**Average**	**740**	**722**	**1,300**	**1,010**	**2,354**	**2,026**	**4,354**	**3,687**
1994	**Average**	**637**	**624**	**1,334**	**1,034**	**2,277**	**1,944**	**4,247**	**3,580**
1995	**Average**	**627**	**621**	**1,480**	**1,151**	**2,196**	**1,835**	**4,002**	**3,341**
1996	January	690	663	1,518	1,148	2,261	1,854	4,120	3,371
	February	647	639	1,495	1,166	2,185	1,849	3,730	3,133
	March	594	548	1,719	1,341	2,371	1,943	4,161	3,427
	April	518	497	1,732	1,288	2,307	1,842	4,007	3,245
	May	705	705	1,700	1,333	2,454	2,054	4,541	3,697
	June	711	697	1,642	1,236	2,425	1,999	4,275	3,432
	July	750	696	1,690	1,332	2,496	2,076	4,619	3,718
	August	793	785	1,749	1,431	2,595	2,265	4,665	3,865
	September	694	677	1,708	1,269	2,428	1,972	4,204	3,463
	October	521	488	1,781	1,448	2,427	2,019	4,271	3,504
	November	465	453	1,728	1,303	2,229	1,767	3,967	3,199
	December	320	298	1,641	1,324	2,042	1,654	3,931	3,166
	Average	**617**	**595**	**1,676**	**1,303**	**2,353**	**1,942**	**4,211**	**3,438**
1997	January	548	522	1,641	1,215	2,243	1,775	4,078	3,237
	February	625	620	1,601	1,262	2,278	1,920	4,130	3,341
	March	542	541	1,769	1,348	2,329	1,904	4,279	3,410
	April	756	747	1,695	1,319	2,491	2,098	4,688	3,818
	May	992	975	1,927	1,449	3,005	2,510	5,001	4,073
	June	919	919	1,893	1,508	2,869	2,478	4,999	4,128
	July	580	571	1,738	1,418	2,391	2,055	4,429	3,662
	August	882	866	1,794	1,394	2,700	2,280	4,827	4,030
	September	769	769	1,822	1,478	2,680	2,329	4,860	4,168
	October	688	675	1,991	1,605	2,722	2,323	4,913	4,134
	November	649	649	1,689	1,418	2,416	2,141	4,431	3,845
	December	423	423	1,699	1,304	2,205	1,795	4,168	3,444
	Average	**698**	**689**	**1,773**	**1,394**	**2,529**	**2,134**	**4,569**	**3,775**
1998	January	613	608	1,600	1,333	2,250	1,974	4,285	3,634
	February	544	544	1,699	1,328	2,267	1,896	4,278	3,510
	March	812	812	1,657	1,316	2,519	2,175	4,718	3,994
	April	772	772	1,626	1,334	2,443	2,132	4,765	3,953
	May	899	892	1,902	1,549	2,822	2,463	5,040	4,287
	June	771	755	1,565	1,326	2,336	2,081	4,890	4,207
	July	873	871	1,728	1,415	2,697	2,371	5,341	4,684
	August	736	726	1,683	1,349	2,478	2,116	5,227	4,579
	8-Mo. Average	**755**	**750**	**1,683**	**1,370**	**2,480**	**2,154**	**4,825**	**4,114**
1997	**8-Mo. Average**	**731**	**720**	**1,759**	**1,365**	**2,540**	**2,129**	**4,557**	**3,715**
1996	**8-Mo. Average**	**677**	**654**	**1,657**	**1,286**	**2,389**	**1,987**	**4,270**	**3,490**

See footnotes at end of table.

Table S3. Crude Oil and Petroleum Product Imports, 1982 - Present (Continued)
(Thousand Barrels per Day)

Year/Month		Imports from Non-OPEC Sources[a]											
		Angola		Australia		Bahama Islands		Brazil		Canada		China, People's Republic of	
		Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1982	**Average**	**44**	**42**	**5**	**(s)**	**65**	**0**	**47**	**19**	**482**	**214**	**40**	**8**
1983	**Average**	**78**	**71**	**4**	**0**	**125**	**0**	**41**	**2**	**547**	**274**	**34**	**6**
1984	**Average**	**90**	**85**	**38**	**25**	**88**	**0**	**60**	**(s)**	**630**	**341**	**46**	**15**
1985	**Average**	**110**	**104**	**37**	**21**	**40**	**0**	**61**	**0**	**770**	**468**	**59**	**36**
1986	**Average**	**112**	**102**	**41**	**30**	**37**	**0**	**50**	**0**	**807**	**570**	**90**	**68**
1987	**Average**	**192**	**180**	**58**	**49**	**37**	**0**	**84**	**0**	**848**	**608**	**82**	**63**
1988	**Average**	**212**	**203**	**64**	**59**	**32**	**0**	**98**	**0**	**999**	**681**	**88**	**82**
1989	**Average**	**284**	**279**	**36**	**31**	**34**	**0**	**82**	**0**	**931**	**630**	**80**	**76**
1990	**Average**	**237**	**236**	**53**	**47**	**37**	**0**	**49**	**0**	**934**	**643**	**80**	**77**
1991	**Average**	**254**	**254**	**26**	**21**	**35**	**0**	**22**	**0**	**1,033**	**743**	**91**	**87**
1992	**Average**	**336**	**336**	**19**	**17**	**36**	**0**	**20**	**0**	**1,069**	**797**	**90**	**84**
1993	**Average**	**336**	**336**	**19**	**18**	**28**	**0**	**33**	**0**	**1,181**	**900**	**51**	**50**
1994	**Average**	**331**	**322**	**17**	**16**	**29**	**0**	**31**	**1**	**1,272**	**983**	**65**	**64**
1995	**Average**	**367**	**360**	**16**	**16**	**2**	**0**	**8**	**0**	**1,332**	**1,040**	**53**	**53**
1996	January	312	312	21	21	0	0	1	0	1,490	1,117	86	86
	February	195	195	0	0	0	0	4	0	1,413	1,026	42	42
	March	257	257	0	0	12	0	1	0	1,322	1,001	53	53
	April	244	233	22	22	0	0	(s)	0	1,427	1,030	18	18
	May	403	379	22	22	0	0	9	0	1,373	1,056	19	19
	June	356	356	56	47	1	0	10	0	1,395	1,091	37	37
	July	292	292	11	0	0	0	28	0	1,393	1,093	78	78
	August	480	456	43	43	0	0	38	0	1,393	1,042	73	73
	September	391	391	47	27	0	0	13	0	1,276	1,000	64	64
	October	502	485	79	65	0	0	1	0	1,407	1,059	36	36
	November	353	353	35	25	0	0	1	0	1,516	1,151	104	104
	December	420	405	39	21	0	0	3	0	1,675	1,232	78	78
	Average	**351**	**344**	**31**	**25**	**1**	**0**	**9**	**0**	**1,424**	**1,075**	**57**	**57**
1997	January	485	485	21	21	0	0	1	0	1,571	1,162	84	84
	February	422	422	0	0	13	0	0	0	1,605	1,155	65	65
	March	467	461	37	37	0	0	4	0	1,508	1,158	120	120
	April	435	422	22	22	0	0	0	0	1,454	1,063	46	46
	May	374	369	61	44	0	0	0	0	1,571	1,203	21	21
	June	480	480	23	23	0	0	20	0	1,546	1,184	44	44
	July	416	416	77	48	0	0	21	0	1,547	1,201	0	0
	August	323	323	91	60	0	0	4	0	1,630	1,275	42	42
	September	428	428	67	27	0	0	3	0	1,577	1,250	49	43
	October	537	537	92	53	0	0	6	0	1,503	1,175	48	47
	November	480	480	23	23	0	0	2	0	1,559	1,213	22	22
	December	286	286	59	14	0	0	0	0	1,689	1,333	45	45
	Average	**427**	**425**	**48**	**31**	**1**	**0**	**5**	**0**	**1,563**	**1,198**	**49**	**48**
1998	January	427	427	5	0	0	0	6	0	1,679	1,313	36	36
	February	417	417	48	48	0	0	0	0	1,717	1,382	41	41
	March	302	302	46	30	0	0	27	0	1,460	1,132	63	63
	April	452	452	62	14	0	0	11	0	1,546	1,239	36	36
	May	503	495	82	60	3	0	28	0	1,608	1,316	70	70
	June	399	399	77	33	0	0	45	0	1,683	1,404	81	81
	July	551	551	69	48	0	0	29	0	1,624	1,338	73	73
	August	422	422	42	21	0	0	28	0	1,555	1,248	57	57
	8-Mo. Average	**434**	**433**	**54**	**32**	**(s)**	**0**	**22**	**0**	**1,608**	**1,295**	**57**	**57**
1997	**8-Mo. Average**	**425**	**422**	**42**	**32**	**1**	**0**	**6**	**0**	**1,554**	**1,176**	**53**	**53**
1996	**8-Mo. Average**	**319**	**311**	**22**	**20**	**2**	**0**	**12**	**0**	**1,401**	**1,057**	**51**	**51**

See footnotes at end of table.

Table S3. Crude Oil and Petroleum Product Imports, 1982 - Present (Continued)
(Thousand Barrels per Day)

Year/Month	Imports from Non-OPEC Sources[a]											
	Colombia		Ecuador[c]		Gabon[d]		Italy		Malaysia		Mexico	
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1982 Average	**5**	**0**	(c)	(c)	(d)	(d)	**18**	**(s)**	**20**	**18**	**685**	**645**
1983 Average	**10**	**0**	(c)	(c)	(d)	(d)	**18**	**(s)**	**4**	**3**	**826**	**766**
1984 Average	**8**	**0**	(c)	(c)	(d)	(d)	**45**	**(s)**	**1**	**0**	**748**	**659**
1985 Average	**23**	**0**	(c)	(c)	(d)	(d)	**60**	**(s)**	**3**	**1**	**816**	**715**
1986 Average	**87**	**57**	(c)	(c)	(d)	(d)	**76**	**0**	**12**	**11**	**699**	**621**
1987 Average	**148**	**115**	(c)	(c)	(d)	(d)	**54**	**1**	**13**	**12**	**655**	**602**
1988 Average	**134**	**106**	(c)	(c)	(d)	(d)	**65**	**5**	**19**	**19**	**747**	**674**
1989 Average	**172**	**136**	(c)	(c)	(d)	(d)	**34**	**3**	**39**	**39**	**767**	**716**
1990 Average	**182**	**140**	(c)	(c)	(d)	(d)	**58**	**2**	**41**	**40**	**755**	**689**
1991 Average	**163**	**123**	(c)	(c)	(d)	(d)	**47**	**3**	**24**	**24**	**807**	**759**
1992 Average	**126**	**102**	(c)	(c)	(d)	(d)	**55**	**0**	**10**	**10**	**830**	**787**
1993 Average	**171**	**141**	(c)	(c)	(d)	(d)	**31**	**0**	**11**	**10**	**919**	**863**
1994 Average	**161**	**146**	**91**	**91**	(d)	(d)	**22**	**0**	**10**	**6**	**984**	**939**
1995 Average	**219**	**207**	**97**	**96**	**229**	**229**	**5**	**0**	**8**	**6**	**1,068**	**1,027**
1996 January	186	183	126	120	171	171	2	0	0	0	1,281	1,245
February	149	139	81	81	191	191	0	0	24	17	1,083	1,062
March	262	250	131	125	154	154	13	0	4	0	1,176	1,165
April	280	280	158	143	212	212	(s)	0	0	0	1,303	1,273
May	263	249	100	95	154	154	0	0	47	40	1,288	1,222
June	250	247	138	133	218	218	16	0	19	11	1,351	1,274
July	204	198	113	96	191	191	19	0	0	0	1,216	1,186
August	221	217	83	71	156	156	8	0	5	0	1,157	1,142
September	213	213	48	48	104	104	15	0	0	0	1,355	1,306
October	265	252	66	60	226	226	4	0	31	0	1,213	1,189
November	267	267	111	111	253	253	13	0	7	0	1,157	1,110
December	246	218	89	72	184	184	8	0	0	0	1,346	1,301
Average	**234**	**226**	**104**	**96**	**184**	**184**	**8**	**0**	**11**	**6**	**1,244**	**1,207**
1997 January	227	226	112	107	62	62	8	0	32	0	1,324	1,280
February	248	248	110	110	262	262	27	0	7	7	1,277	1,241
March	260	257	148	148	217	217	5	0	33	0	1,310	1,249
April	255	255	73	73	203	203	26	0	33	0	1,448	1,416
May	272	266	109	104	210	210	9	0	9	0	1,429	1,408
June	228	228	132	132	226	226	0	0	32	24	1,401	1,382
July	235	225	122	122	335	335	0	0	28	0	1,366	1,347
August	250	250	128	128	203	203	2	0	23	15	1,452	1,448
September	289	289	143	143	271	271	0	0	37	29	1,410	1,395
October	321	321	143	143	235	235	8	0	19	19	1,526	1,500
November	322	322	91	91	256	256	0	0	8	0	1,460	1,453
December	350	350	66	66	288	288	5	0	7	0	1,215	1,192
Average	**271**	**270**	**115**	**114**	**230**	**230**	**7**	**0**	**23**	**8**	**1,385**	**1,360**
1998 January	281	281	77	77	264	264	26	0	17	11	1,467	1,438
February	243	235	103	103	244	244	6	0	64	49	1,214	1,197
March	261	261	75	75	312	312	12	0	10	10	1,235	1,220
April	348	348	88	81	256	256	2	0	29	13	1,473	1,444
May	394	385	114	105	194	194	35	0	63	55	1,377	1,359
June	340	333	75	67	110	110	18	0	14	0	1,400	1,379
July	229	229	89	89	197	197	8	0	46	38	1,398	1,372
August	360	357	158	158	118	118	10	0	11	4	1,153	1,139
8-Mo. Average	**307**	**304**	**97**	**94**	**212**	**212**	**15**	**0**	**31**	**22**	**1,340**	**1,319**
1997 8-Mo. Average	**247**	**244**	**117**	**116**	**214**	**214**	**10**	**0**	**25**	**6**	**1,377**	**1,347**
1996 8-Mo. Average	**227**	**221**	**116**	**108**	**181**	**181**	**7**	**0**	**12**	**8**	**1,232**	**1,197**

See footnotes at end of table.

Table S3. Crude Oil and Petroleum Product Imports, 1982 - Present (Continued)
(Thousand Barrels per Day)

Year/Month		Imports from Non-OPEC Sources[a]											
		Netherlands		Netherlands Antilles		Norway		Puerto Rico		Russia[f]		Spain	
		Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1982	**Average**	**35**	**(s)**	**175**	**0**	**102**	**102**	**50**	**0**	**1**	**0**	**3**	**(s)**
1983	**Average**	**65**	**3**	**189**	**0**	**66**	**65**	**40**	**0**	**1**	**(s)**	**2**	**(s)**
1984	**Average**	**65**	**3**	**188**	**0**	**114**	**112**	**42**	**0**	**13**	**(s)**	**11**	**0**
1985	**Average**	**58**	**0**	**40**	**0**	**32**	**31**	**28**	**0**	**8**	**(s)**	**29**	**1**
1986	**Average**	**54**	**0**	**25**	**0**	**60**	**53**	**21**	**0**	**18**	**(s)**	**53**	**0**
1987	**Average**	**60**	**0**	**29**	**0**	**80**	**70**	**21**	**0**	**11**	**0**	**55**	**0**
1988	**Average**	**61**	**0**	**36**	**0**	**67**	**62**	**22**	**0**	**29**	**0**	**68**	**0**
1989	**Average**	**49**	**0**	**42**	**0**	**138**	**127**	**32**	**0**	**48**	**0**	**67**	**0**
1990	**Average**	**55**	**0**	**31**	**0**	**102**	**96**	**32**	**0**	**45**	**1**	**47**	**0**
1991	**Average**	**29**	**0**	**81**	**0**	**82**	**74**	**27**	**0**	**29**	**1**	**33**	**0**
1992	**Average**	**26**	**0**	**65**	**0**	**127**	**119**	**26**	**0**	**18**	**5**	**32**	**0**
1993	**Average**	**10**	**0**	**82**	**0**	**142**	**137**	**29**	**0**	**55**	**36**	**37**	**0**
1994	**Average**	**32**	**0**	**98**	**0**	**202**	**190**	**22**	**0**	**30**	**27**	**37**	**0**
1995	**Average**	**15**	**0**	**52**	**0**	**273**	**258**	**15**	**0**	**25**	**14**	**16**	**1**
1996	January	16	0	59	0	199	178	6	0	11	0	23	0
	February	38	0	101	0	236	221	17	0	14	0	23	0
	March	35	0	35	0	284	264	24	0	18	0	58	0
	April	20	0	50	0	375	357	17	0	0	0	36	0
	May	9	0	47	0	380	364	22	0	63	63	21	0
	June	26	0	52	0	434	408	25	0	14	14	12	0
	July	7	0	45	0	375	359	25	0	42	33	47	10
	August	14	0	53	0	369	362	33	0	32	32	21	0
	September	13	0	56	0	274	254	22	0	39	37	21	0
	October	24	0	97	0	389	359	14	0	42	33	34	0
	November	18	0	79	0	249	220	20	0	0	0	33	0
	December	14	0	98	0	187	166	18	0	26	0	13	0
	Average	**19**	**0**	**64**	**0**	**313**	**293**	**20**	**0**	**25**	**18**	**29**	**1**
1997	January	40	0	94	0	244	230	18	0	21	0	31	0
	February	33	0	60	0	204	179	16	0	19	0	36	0
	March	40	0	102	0	295	276	7	0	13	0	6	0
	April	20	0	114	0	307	294	12	0	20	0	9	0
	May	13	0	116	0	388	366	21	0	0	0	23	0
	June	37	0	66	0	329	318	13	0	8	0	45	0
	July	5	0	61	0	386	360	24	0	9	0	6	0
	August	15	0	65	0	321	320	20	0	32	19	41	0
	September	54	0	71	0	285	265	14	0	0	0	21	0
	October	13	0	46	0	346	312	19	0	13	6	12	0
	November	28	0	33	0	316	276	23	0	21	7	19	0
	December	1	0	54	0	275	249	10	0	0	0	5	0
	Average	**25**	**0**	**74**	**0**	**309**	**288**	**16**	**0**	**13**	**3**	**21**	**0**
1998	January	6	0	87	0	217	208	18	0	0	0	15	0
	February	18	0	85	0	169	169	21	0	12	0	13	0
	March	5	0	90	32	210	198	5	0	3	0	0	0
	April	36	0	63	0	232	232	4	0	(s)	0	9	0
	May	27	0	55	0	196	172	18	0	0	0	14	0
	June	16	0	86	0	283	252	13	0	34	34	26	0
	July	59	0	24	0	318	311	21	0	69	69	34	0
	August	11	0	41	0	287	260	23	0	(s)	0	8	0
	8-Mo. Average	**22**	**0**	**66**	**4**	**240**	**226**	**15**	**0**	**15**	**13**	**15**	**0**
1997	**8-Mo. Average**	**25**	**0**	**85**	**0**	**310**	**294**	**16**	**0**	**15**	**2**	**25**	**0**
1996	**8-Mo. Average**	**20**	**0**	**55**	**0**	**332**	**315**	**21**	**0**	**24**	**18**	**30**	**1**

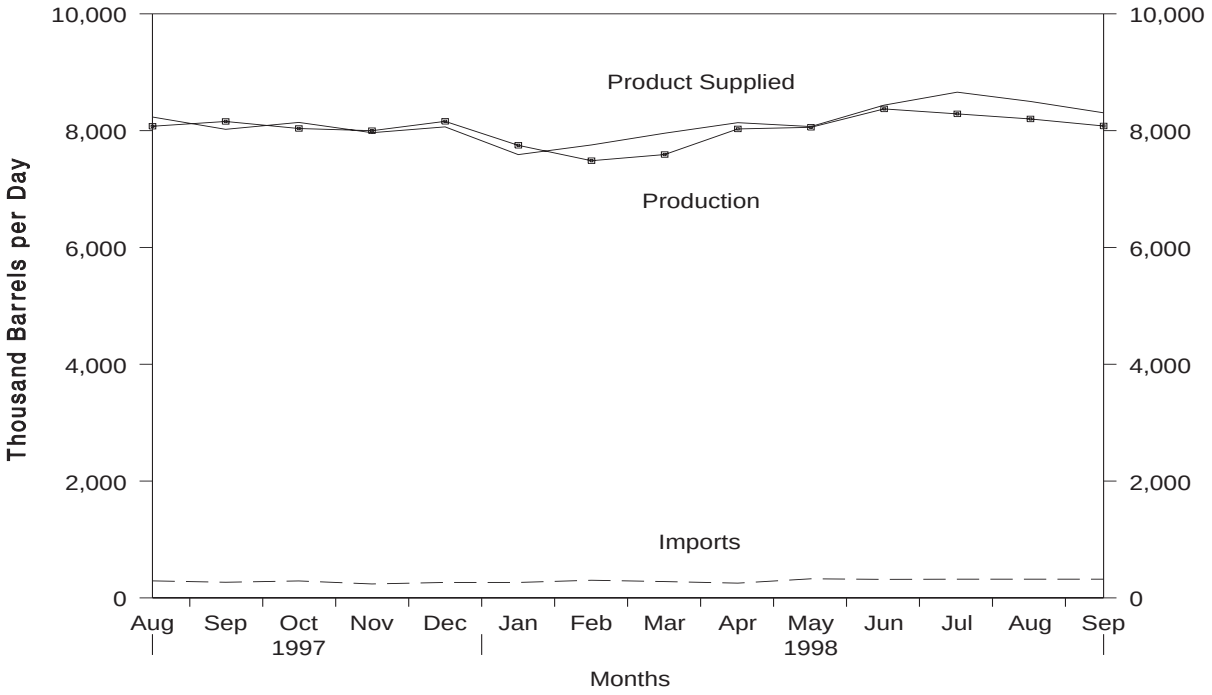
See footnotes at end of table.

Table S3. Crude Oil and Petroleum Product Imports, 1982 - Present (Continued)
(Thousand Barrels per Day)

Year/Month	Imports from Non-OPEC Sources[a]										Total Imports	
	Trinadad and Tobago		United Kingdom		Virgin Islands		Other Non-OPEC		Total Non-OPEC[c,d]			
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1982 Average	**112**	**92**	**456**	**441**	**316**	**0**	**306**	**174**	**2,968**	**1,754**	**5,113**	**3,488**
1983 Average	**96**	**83**	**382**	**365**	**282**	**0**	**378**	**215**	**3,189**	**1,853**	**5,051**	**3,329**
1984 Average	**94**	**87**	**402**	**378**	**294**	**0**	**411**	**210**	**3,388**	**1,914**	**5,437**	**3,426**
1985 Average	**113**	**98**	**310**	**278**	**247**	**0**	**394**	**137**	**3,237**	**1,888**	**5,067**	**3,201**
1986 Average	**125**	**93**	**350**	**317**	**244**	**0**	**426**	**144**	**3,387**	**2,065**	**6,224**	**4,178**
1987 Average	**106**	**75**	**352**	**304**	**272**	**0**	**459**	**196**	**3,617**	**2,274**	**6,678**	**4,674**
1988 Average	**97**	**71**	**315**	**254**	**242**	**0**	**487**	**196**	**3,882**	**2,411**	**7,402**	**5,107**
1989 Average	**94**	**73**	**215**	**160**	**321**	**0**	**457**	**197**	**3,921**	**2,467**	**8,061**	**5,843**
1990 Average	**96**	**76**	**189**	**155**	**282**	**0**	**417**	**180**	**3,721**	**2,381**	**8,018**	**5,894**
1991 Average	**88**	**72**	**138**	**106**	**243**	**0**	**282**	**137**	**3,535**	**2,405**	**7,627**	**5,782**
1992 Average	**95**	**70**	**230**	**200**	**249**	**0**	**335**	**149**	**3,796**	**2,676**	**7,888**	**6,083**
1993 Average	**74**	**55**	**350**	**312**	**254**	**0**	**452**	**240**	**4,266**	**3,100**	**8,620**	**6,787**
1994 Average	**77**	**62**	**458**	**396**	**328**	**0**	**450**	**239**	**4,749**	**3,483**	**8,996**	**7,063**
1995 Average	**70**	**62**	**383**	**341**	**278**	**0**	**302**	**181**	**4,833**	**3,889**	**8,835**	**7,230**
1996 January	92	71	364	238	390	0	406	188	5,244	3,932	9,364	7,303
February	56	56	374	280	343	0	275	169	4,660	3,479	8,390	6,612
March	63	52	346	252	311	0	373	215	4,932	3,788	9,092	7,215
April	87	55	481	347	359	0	333	157	5,421	4,125	9,429	7,371
May	97	71	421	316	298	0	429	282	5,465	4,332	10,007	8,029
June	86	54	312	234	292	0	561	402	5,663	4,526	9,938	7,958
July	70	58	244	195	344	0	456	292	5,201	4,082	9,820	7,800
August	81	59	274	177	279	0	508	348	5,321	4,177	9,986	8,041
September	51	37	165	90	268	0	502	318	4,938	3,891	9,142	7,353
October	70	55	264	136	325	0	477	240	5,566	4,196	9,837	7,701
November	96	75	199	160	253	0	513	318	5,277	4,145	9,244	7,344
December	58	54	253	167	294	0	438	245	5,487	4,142	9,417	7,307
Average	**76**	**58**	**308**	**216**	**313**	**0**	**440**	**265**	**5,267**	**4,070**	**9,478**	**7,508**
1997 January	74	55	400	333	335	0	502	210	5,685	4,255	9,763	7,492
February	69	61	236	172	341	0	380	170	5,431	4,093	9,561	7,434
March	56	55	236	161	254	0	437	206	5,554	4,344	9,833	7,754
April	69	62	159	70	321	0	401	242	5,426	4,169	10,114	7,987
May	70	66	261	181	300	0	558	341	5,817	4,579	10,818	8,653
June	55	55	372	311	300	0	380	225	5,737	4,631	10,736	8,759
July	62	54	198	165	310	0	370	243	5,579	4,515	10,008	8,178
August	41	37	268	220	319	0	368	251	5,638	4,591	10,465	8,621
September	66	58	166	110	248	0	476	364	5,677	4,672	10,537	8,840
October	58	55	154	119	301	0	479	271	5,879	4,793	10,792	8,927
November	65	57	127	87	260	0	403	236	5,517	4,521	9,948	8,366
December	53	53	135	98	314	0	304	235	5,160	4,208	9,328	7,653
Average	**61**	**56**	**226**	**169**	**300**	**0**	**422**	**250**	**5,593**	**4,450**	**10,162**	**8,225**
1998 January	58	54	232	166	283	0	408	276	5,609	4,551	9,893	8,185
February	60	60	170	89	296	0	358	224	5,299	4,260	9,577	7,770
March	53	53	95	70	334	0	376	236	4,976	3,995	9,694	7,989
April	48	48	224	154	272	0	444	254	5,633	4,570	10,398	8,523
May	61	53	233	133	292	0	494	273	5,863	4,670	10,903	8,957
June	64	56	227	125	310	0	511	245	5,812	4,518	10,702	8,725
July	79	56	96	36	360	0	436	219	5,809	4,625	11,151	9,309
August	63	53	371	295	279	0	607	435	5,602	4,564	10,829	9,143
8-Mo. Average	**61**	**54**	**206**	**134**	**304**	**0**	**455**	**271**	**5,578**	**4,471**	**10,402**	**8,585**
1997 8-Mo. Average	**62**	**56**	**267**	**202**	**310**	**0**	**425**	**237**	**5,611**	**4,401**	**10,167**	**8,116**
1996 8-Mo. Average	**79**	**59**	**352**	**254**	**327**	**0**	**418**	**257**	**5,241**	**4,058**	**9,511**	**7,548**

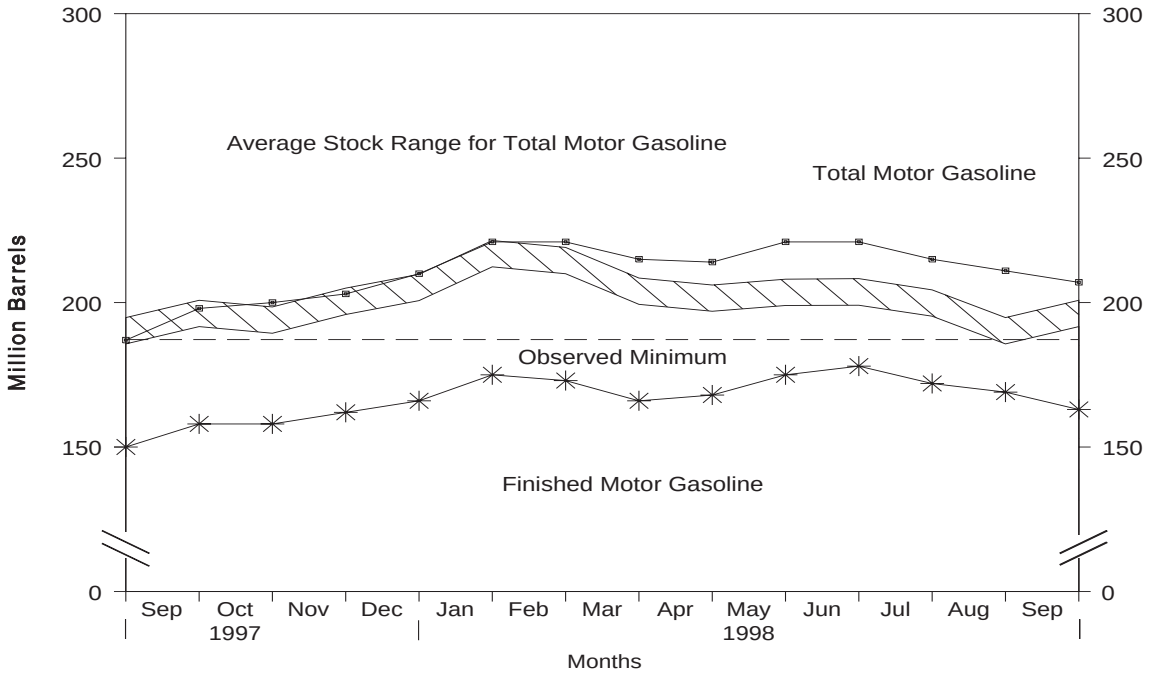
[a] Includes petroleum imported into the United States indirectly from members of the Organization of Petroleum Exporting Countries (OPEC) primarily from Caribbean and West European areas as petroleum products that were refined from crude oil produced by OPEC.
[b] Imports from the Neutral Zone between Kuwait and Saudi Arabia are included in imports from Saudi Arabia.
[c] On December 31, 1992, Ecuador withdrew as a member of OPEC. As of January 1, 1994, imports of petroleum from Ecuador appear under imports from Non-OPEC Sources.
[d] On December 31, 1994, Gabon withdrew as a member of OPEC. As of January 1, 1995, imports of petroleum from Gabon appear under imports from Non-OPEC Sources.
[e] Excludes petroleum imported into the United States indirectly from members of the Organization of Petroleum Exporting Countries (OPEC), primarily from Caribbean and West European areas, as petroleum products that were refined from crude oil produced by OPEC.
[f] Imports from other States in the former U.S.S.R. may be included in imports from Russia for the years 1981 through 1992.
[g] A small amount of Iranian crude oil entered the United States in January 1988 from the Virgin Islands. This oil originated in Iran and was exported to the Virgin Islands prior to the signing of Executive Order 12613 on October 29, 1987.
(s) = Less than 500 barrels per day.
— = Not Applicable.
Notes: • Geographic coverage is the 50 States and the District of Columbia. • Totals may not equal sum of components due to independent rounding.
Source: See Summary Statistics Table and Figure Sources.

Figure S5. Finished Motor Gasoline Supply and Disposition, August 1997 - Present



Source: Energy Information Administration, *Petroleum Supply Monthly*, Table S4. See Summary Statistics Table and Figure Sources.

Figure S6. Motor Gasoline Ending Stocks, August 1997 - Present



Note: • Total motor gasoline includes motor gasoline blending components and finished motor gasoline. • The Observed Minimum for total motor gasoline stocks in the last 36-month period was 187.2 million barrels, occurring in August 1997.

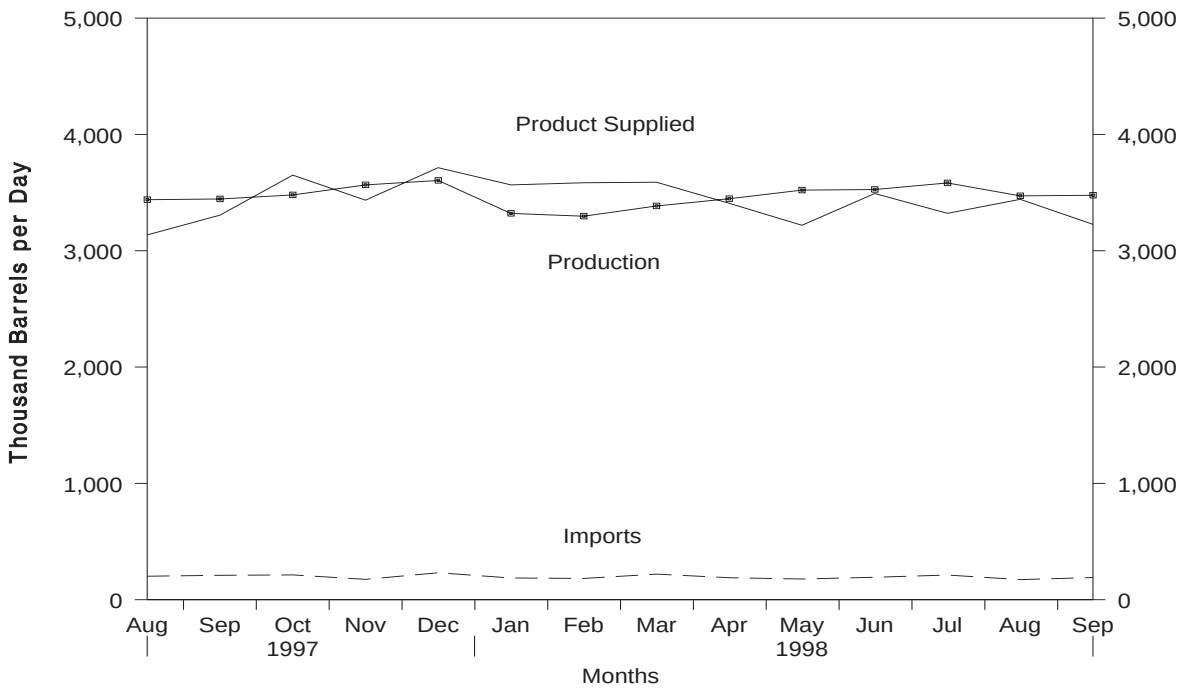
Source: Energy Information Administration, *Petroleum Supply Monthly*, Table S4. See Summary Statistics Table and Figure Sources.

Table S4. Finished Motor Gasoline Supply and Disposition, 1982 - Present
(Thousand Barrels per Day, Except Where Noted)

Year/Month		Supply		Disposition			Ending Stocks[a] (Million Barrels)		Ending Stocks (Million Barrels)
							Motor Gasoline		
		Total Production[b]	Imports[c]	Stock Change[c,d]	Exports	Product Supplied[b]	Total[e]	Finished	Oxygenates
1982	**Average**	**6,338**	**197**	**-25**	**20**	**6,539**	[f] **235**	[f] **194**	**—**
1983	**Average**	**6,340**	**247**	[f] **-45**	**10**	**6,622**	**222**	**186**	**—**
1984	**Average**	**6,453**	**299**	**54**	**6**	**6,693**	**243**	**205**	**—**
1985	**Average**	**6,419**	**381**	**-41**	**10**	**6,831**	**223**	**190**	**—**
1986	**Average**	**6,752**	**326**	**11**	**33**	**7,034**	**233**	**194**	**—**
1987	**Average**	**6,841**	**384**	**-15**	**35**	**7,206**	**226**	**189**	**—**
1988	**Average**	**6,956**	**405**	**3**	**22**	**7,336**	**228**	**190**	**—**
1989	**Average**	**6,963**	**369**	**-35**	**39**	**7,328**	**213**	**177**	**—**
1990	**Average**	**6,959**	**342**	**10**	**55**	**7,235**	**220**	**181**	**—**
1991	**Average**	**6,975**	**297**	**3**	**82**	**7,188**	**219**	**182**	**—**
1992	**Average**	**7,058**	**294**	**-11**	**96**	**7,268**	**216**	**178**	**—**
1993	**Average**	**7,360**	**247**	**26**	**105**	**7,476**	**226**	**187**	**13**
1994	**Average**	**7,312**	**356**	**-31**	**97**	**7,601**	**215**	**176**	**17**
1995	**Average**	**7,588**	**265**	**-40**	**104**	**7,789**	**202**	**161**	**12**
1996	January	7,370	303	240	163	7,271	215	169	12
	February	7,369	293	-10	72	7,599	214	168	12
	March	7,289	303	-327	128	7,792	203	158	13
	April	7,497	501	49	77	7,873	203	160	13
	May	7,804	414	66	81	8,071	205	162	12
	June	7,858	393	68	95	8,088	205	164	11
	July	7,924	359	-5	123	8,165	202	164	11
	August	7,796	346	-284	82	8,343	191	155	12
	September	7,606	339	215	68	7,662	200	161	11
	October	7,557	253	-396	113	8,093	189	149	11
	November	7,864	234	55	128	7,915	188	151	12
	December	7,815	298	202	117	7,794	195	157	13
	Average	**7,647**	**336**	**-12**	**104**	**7,891**	**—**	**—**	**—**
1997	January	7,307	320	250	75	7,301	208	165	13
	February	7,341	324	-114	111	7,668	204	162	13
	March	7,302	370	-247	123	7,796	200	154	14
	April	7,811	300	-70	117	8,064	197	152	13
	May	8,081	362	203	101	8,139	202	158	13
	June	8,186	387	189	96	8,288	204	164	12
	July	7,954	291	-414	164	8,496	190	151	13
	August	8,075	292	-41	175	8,233	187	150	13
	September	8,158	269	275	130	8,023	198	158	13
	October	8,037	291	1	186	8,141	200	158	12
	November	7,999	239	122	151	7,965	203	162	12
	December	8,160	265	154	206	8,065	210	166	12
	Average	**7,870**	**309**	**26**	**137**	**8,017**	**—**	**—**	**—**
1998	January	7,749	265	296	128	7,590	221	175	13
	February	7,485	303	-90	124	7,755	221	173	14
	March	7,591	280	-205	121	7,956	215	166	13
	April	8,029	253	64	81	8,137	214	168	13
	May	8,057	328	212	103	8,070	221	175	13
	June	8,372	317	92	159	8,437	221	178	14
	July	8,287	321	-168	117	8,659	215	172	13
	August	[R] 8,200	[R] 321	[R] -119	[R] 141	[R] 8,500	[R] 211	[R] 169	13
	September*	[E] *8,080*	[E] *321*	[E] *-23*	[E] *119*	[E] *8,306*	[E] *207*	[E] *163*	NA
	9-Mo. Average	[E] **7,987**	[E] **301**	[E] **7**	[E] **121**	[E] **8,159**	**—**	**—**	**—**
1997	**9-Mo. Average**	**7,804**	**324**	**3**	**122**	**8,003**	**—**	**—**	**—**
1996	**9-Mo. Average**	**7,614**	**361**	**(s)**	**99**	**7,876**	**—**	**—**	**—**

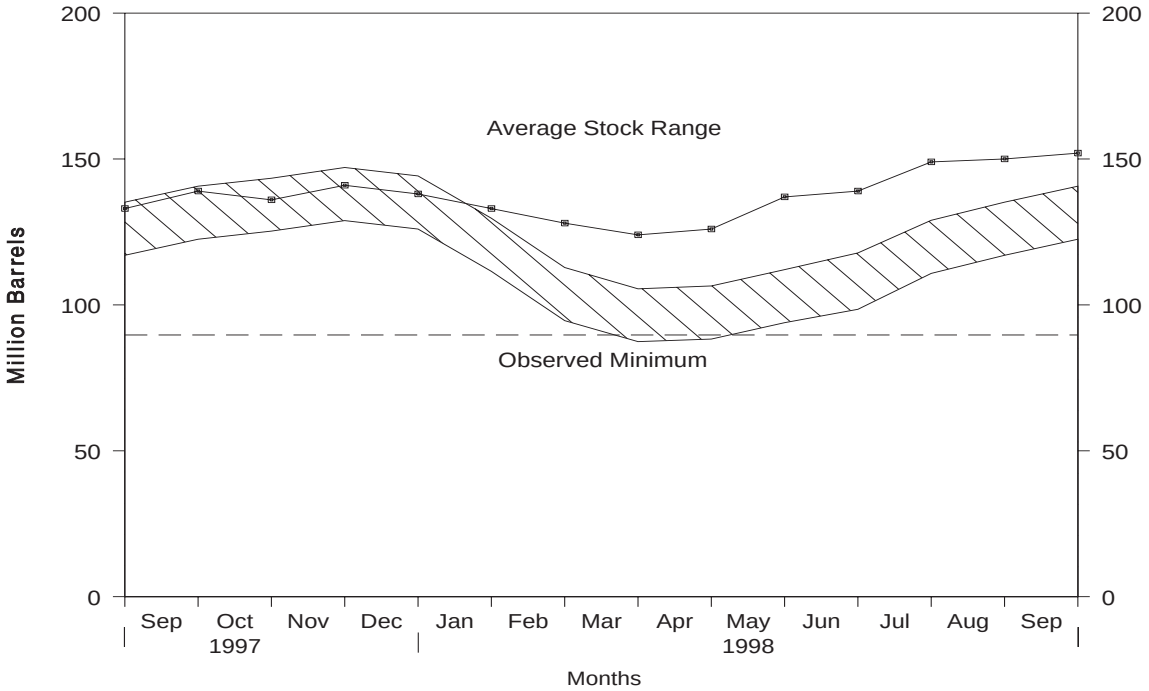
[a] Stocks are totals as of end of period.
[b] Beginning in 1993, motor gasoline production and product supplied includes blending of fuel ethanol and an adjustment to correct for the imbalance of motor gasoline blending components.
[c] Beginning in 1981, excludes blending components.
[d] A negative number indicates a decrease in stocks and a positive number indicates an increase.
[e] Includes motor gasoline blending components but excludes stocks of oxygenates.
[f] In January 1981 and 1983, numerous respondents were added to surveys affecting stocks reported and stock change calculations. Stock changes are calculated using new basis stock levels. See Summary Statistics Explanatory Note 4.
R = Revised data. E = Estimated. NA = Not Available.
— = Not Applicable.
* See Summary Statistics Explanatory Note 1.
Notes: • Italics denote estimates based upon preliminary data. • Geographic coverage is the 50 States and the District of Columbia. • Totals may not equal sum of components due to independent rounding.
Source: See Summary Statistics Table and Figure Sources.

Figure S7. Distillate Fuel Oil Supply and Disposition, August 1997 - Present



Source: Energy Information Administration, *Petroleum Supply Monthly*, Table S5. See Summary Statistics Table and Figure Sources.

Figure S8. Distillate Fuel Oil Ending Stocks, August 1997 - Present



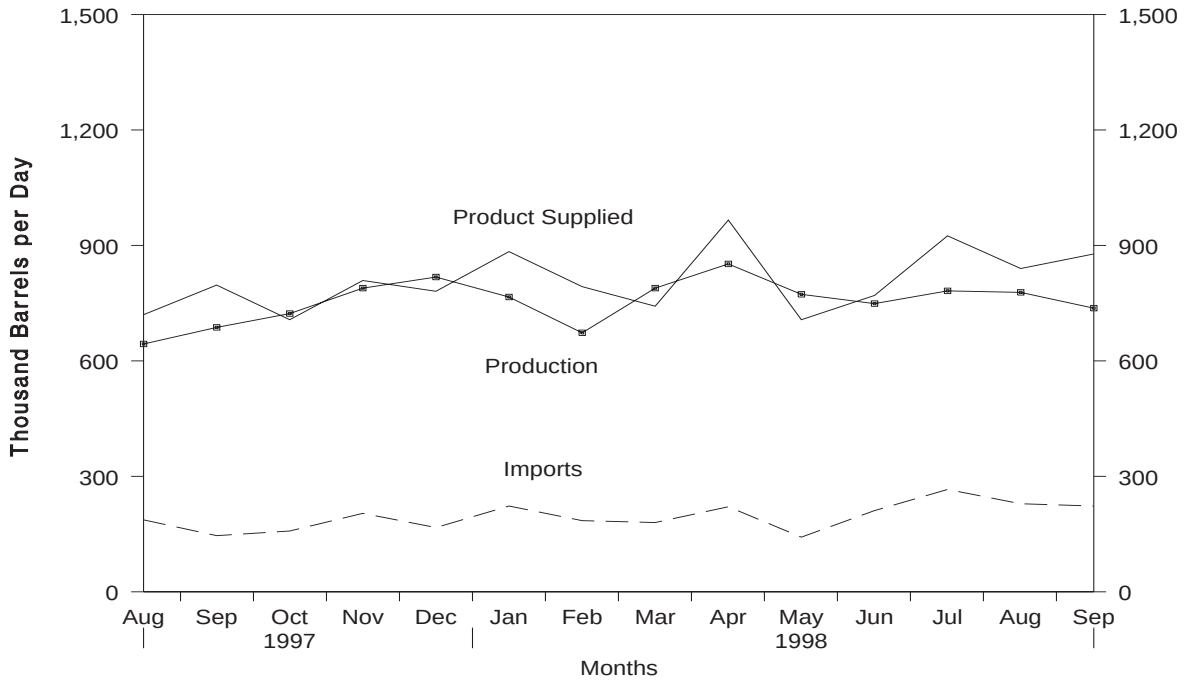
Note: The Observed Minimum for distillate fuel oil stocks in the last 36-month period was 89.7 million barrels, occurring in March 1996.
Source: Energy Information Administration, *Petroleum Supply Monthly*, Table S5. See Summary Statistics Table and Figure Sources.

Table S5. Distillate Fuel Oil Supply and Disposition, 1982 - Present
(Thousand Barrels per Day, Except Where Noted)

Year/Month		Supply[a]		Disposition			Ending Stocks[b] (Million Barrels)		
		Total Production	Imports	Stock Change[c]	Exports	Product Supplied[a]	Total	0.05% Sulfur and Under	Greater than 0.05% Sulfur
1982	**Average**	**2,606**	**93**	**-35**	**74**	**2,671**	[d] **179**	**—**	**—**
1983	**Average**	**2,456**	**174**	[d] **-124**	**64**	**2,690**	**140**	**—**	**—**
1984	**Average**	**2,681**	**272**	**57**	**51**	**2,845**	**161**	**—**	**—**
1985	**Average**	**2,687**	**200**	**-48**	**67**	**2,868**	**144**	**—**	**—**
1986	**Average**	**2,798**	**247**	**31**	**100**	**2,914**	**155**	**—**	**—**
1987	**Average**	**2,731**	**255**	**-56**	**66**	**2,976**	**134**	**—**	**—**
1988	**Average**	**2,859**	**302**	**-30**	**69**	**3,122**	**124**	**—**	**—**
1989	**Average**	**2,899**	**306**	**-49**	**97**	**3,157**	**106**	**—**	**—**
1990	**Average**	**2,925**	**278**	**73**	**109**	**3,021**	**132**	**—**	**—**
1991	**Average**	**2,962**	**205**	**31**	**215**	**2,921**	**144**	**—**	**—**
1992	**Average**	**2,974**	**216**	**-8**	**219**	**2,979**	**141**	**—**	**—**
1993	**Average**	**3,132**	**184**	**1**	**274**	**3,041**	**141**	**64**	**77**
1994	**Average**	**3,205**	**203**	**12**	**234**	**3,162**	**145**	**73**	**73**
1995	**Average**	**3,155**	**193**	**-41**	**183**	**3,207**	**130**	**67**	**63**
1996	January	3,105	267	-528	216	3,684	114	58	55
	February	3,133	279	-570	256	3,727	97	53	44
	March	3,107	256	-247	139	3,471	90	49	40
	April	3,300	258	13	166	3,379	90	52	38
	May	3,256	231	182	176	3,128	96	57	39
	June	3,283	185	198	81	3,189	102	60	41
	July	3,127	194	166	134	3,021	107	62	45
	August	3,280	195	112	182	3,180	110	62	49
	September	3,392	193	157	256	3,172	115	64	51
	October	3,627	246	-8	300	3,581	115	60	54
	November	3,641	205	234	171	3,442	122	65	57
	December	3,536	253	160	206	3,422	127	68	58
	Average	**3,316**	**230**	**-10**	**190**	**3,365**	**—**	**—**	**—**
1997	January	3,119	293	-508	133	3,786	111	60	51
	February	3,090	246	-197	107	3,427	105	56	49
	March	3,244	245	-137	120	3,505	101	58	43
	April	3,280	256	-134	166	3,504	97	59	39
	May	3,527	220	359	153	3,235	108	63	45
	June	3,523	219	326	174	3,243	118	65	53
	July	3,365	223	161	151	3,275	123	64	59
	August	3,439	202	320	185	3,136	133	69	64
	September	3,445	210	189	160	3,306	139	69	70
	October	3,480	213	-89	133	3,650	136	63	73
	November	3,566	175	156	149	3,435	141	68	73
	December	3,604	232	-70	192	3,714	138	68	70
	Average	**3,392**	**228**	**32**	**152**	**3,435**	**—**	**—**	**—**
1998	January	3,321	187	-192	133	3,566	133	68	65
	February	3,297	183	-183	79	3,585	128	65	63
	March	3,385	220	-113	129	3,589	124	63	61
	April	3,447	189	42	186	3,408	126	63	63
	May	3,521	178	359	121	3,219	137	69	68
	June	3,526	193	78	149	3,492	139	70	69
	July	3,583	212	312	161	3,322	149	76	73
	August	R 3,472	R 173	R 54	R 150	R 3,442	R 150	R 73	R 78
	September*	E *3,477*	E *191*	E *264*	E *177*	E *3,227*	E *152*	E *74*	E *78*
	9-Mo. Average	E **3,449**	E **192**	E **71**	E **143**	E **3,427**	**—**	**—**	**—**
1997	**9-Mo. Average**	**3,339**	**235**	**44**	**150**	**3,379**	**—**	**—**	**—**
1996	**9-Mo. Average**	**3,220**	**229**	**-56**	**178**	**3,326**	**—**	**—**	**—**

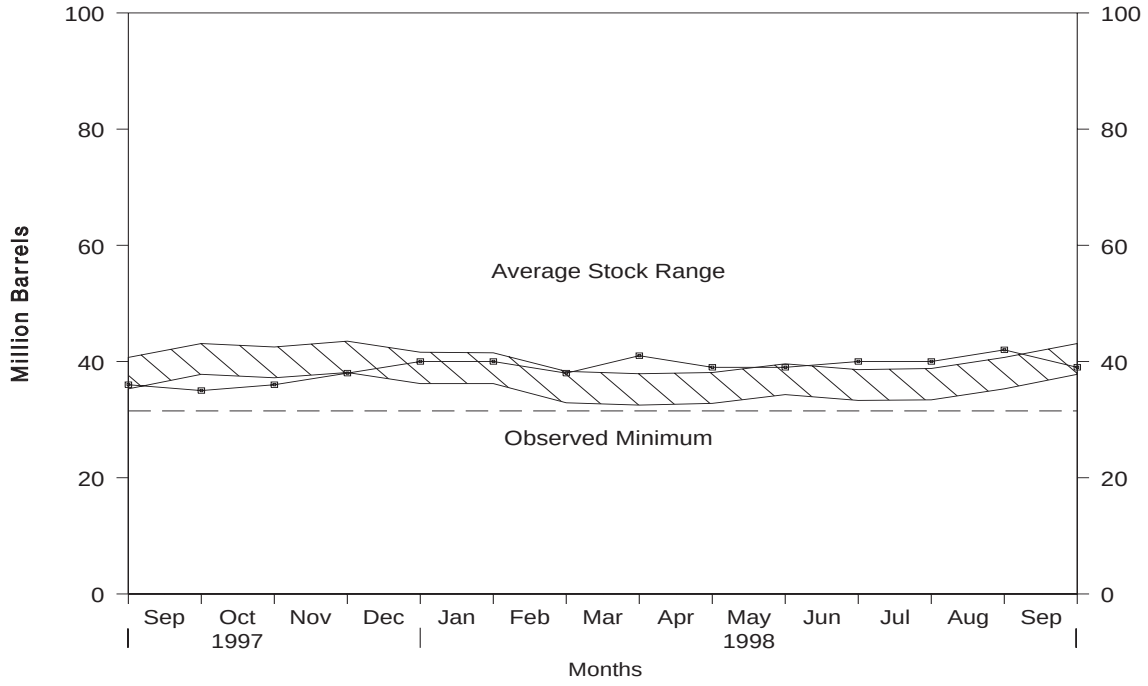
[a] Excludes 10,000 barrels per day in 1981 and 1982 previously published as crude used directly.
[b] Stocks are totals as of end of period.
[c] A negative number indicates a decrease in stocks and a positive number indicates an increase.
[d] In January 1981 and 1983, numerous respondents were added to surveys affecting stocks reported and stock change calculations. Stock changes are calculated using new stock basis stock levels. See Summary Statistics Explanatory Note 4.
R = Revised data. E = Estimated.
— = Not Applicable.
* See Summary Statistics Explanatory Note 1.
Notes: • Italics denote estimates based upon preliminary data. • Geographic coverage is the 50 States and the District of Columbia. • Totals may not equal sum of components due to independent rounding.
Source: See Summary Statistics Table and Figure Sources.

Figure S9. Residual Fuel Oil Supply and Disposition, August 1997 - Present



Source: Energy Information Administration, *Petroleum Supply Monthly*, Table S6. See Summary Statistics Table and Figure Sources.

Figure S10. Residual Fuel Oil Ending Stocks, August 1997 - Present



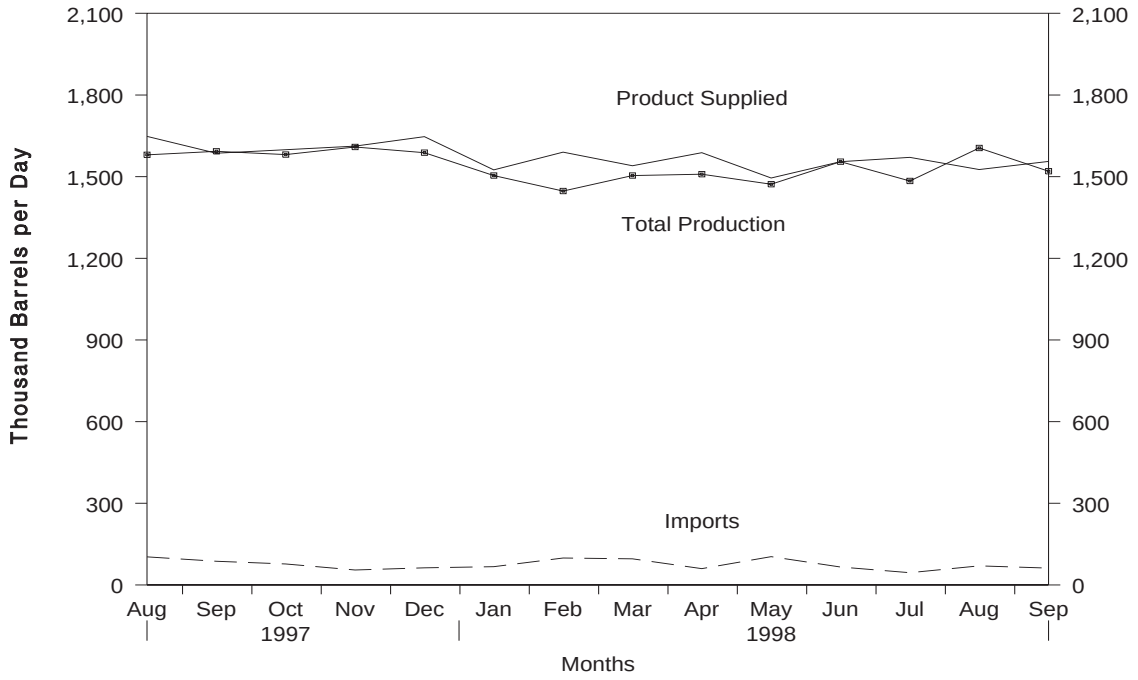
Note: The Observed Minimum for residual fuel oil stocks in the last 36-month period was 31.5 million barrels, occurring in February 1996.
Source: Energy Information Administration, *Petroleum Supply Monthly*, Table S6. See Summary Statistics Table and Figure Sources.

Table S6. Residual Fuel Oil Supply and Disposition, 1982 - Present
(Thousand Barrels per Day, Except Where Noted)

Year/Month		Supply[a]		Disposition			Ending Stocks[c] (Million Barrels)
		Total Production	Imports	Stock Change[b]	Exports	Product Supplied[a]	
1982	**Average**	**1,070**	**776**	**-32**	**209**	**1,716**	[d] **66**
1983	**Average**	**852**	**699**	[d] **-55**	**185**	**1,421**	**49**
1984	**Average**	**891**	**681**	**12**	**190**	**1,369**	**53**
1985	**Average**	**882**	**510**	**-7**	**197**	**1,202**	**50**
1986	**Average**	**889**	**669**	**-8**	**147**	**1,418**	**47**
1987	**Average**	**885**	**565**	**(s)**	**186**	**1,264**	**47**
1988	**Average**	**926**	**644**	**-8**	**200**	**1,378**	**45**
1989	**Average**	**954**	**629**	**-2**	**215**	**1,370**	**44**
1990	**Average**	**950**	**504**	**13**	**211**	**1,229**	**49**
1991	**Average**	**934**	**453**	**4**	**226**	**1,158**	**50**
1992	**Average**	**892**	**375**	**-20**	**193**	**1,094**	**43**
1993	**Average**	**835**	**373**	**4**	**123**	**1,080**	**44**
1994	**Average**	**826**	**314**	**-6**	**125**	**1,021**	**42**
1995	**Average**	**788**	**187**	**-13**	**136**	**852**	**37**
1996	January	799	320	-54	108	1,064	36
	February	798	222	-132	114	1,038	32
	March	700	227	-4	95	836	32
	April	671	237	69	96	743	34
	May	732	203	18	89	827	34
	June	731	168	21	144	735	35
	July	646	335	-3	88	896	35
	August	732	227	32	56	871	36
	September	713	197	68	125	717	38
	October	694	260	16	104	835	38
	November	714	270	139	101	744	42
	December	778	307	112	102	872	46
	Average	**726**	**248**	**24**	**102**	**848**	**—**
1997	January	801	211	-131	171	972	42
	February	795	253	-66	137	977	40
	March	638	239	46	89	742	41
	April	617	250	-29	105	791	41
	May	618	175	-44	102	736	39
	June	727	168	(s)	130	765	39
	July	643	177	-119	159	781	35
	August	644	187	31	80	720	36
	September	687	146	-54	91	797	35
	October	723	158	41	133	707	36
	November	789	204	61	122	809	38
	December	818	167	83	120	781	40
	Average	**708**	**194**	**-15**	**120**	**797**	**—**
1998	January	766	223	-25	131	884	40
	February	673	185	-55	120	793	38
	March	789	180	93	135	742	41
	April	852	221	-60	168	966	39
	May	773	142	-18	227	707	39
	June	749	211	38	152	770	40
	July	782	266	(s)	124	925	40
	August	R 778	R 229	R 62	R 105	R 840	R 42
	September*	E *737*	E *223*	E *-37*	E *119*	E *878*	E *39*
	9-Mo. Average	E **768**	E **209**	E **1**	E **142**	E **834**	**—**
1997	**9-Mo. Average**	**684**	**200**	**-41**	**118**	**807**	**—**
1996	**9-Mo. Average**	**724**	**238**	**2**	**101**	**859**	**—**

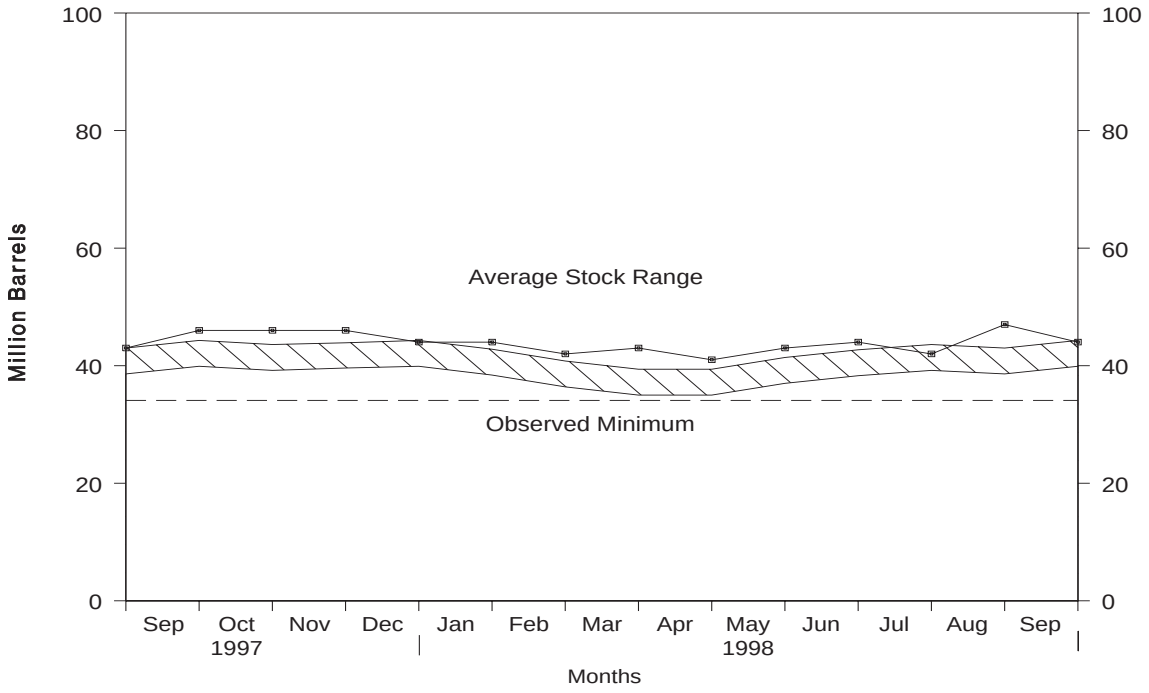
[a] Excludes 48,000 barrels per day in 1981 and 1982 previously published as crude used directly.
[b] A negative number indicates a decrease in stocks and a positive number indicates an increase.
[c] Stocks are totals as of end of period.
[d] In January 1981 and 1983, numerous respondents were added to surveys affecting stocks reported and stock change calculations. Stock changes are calculated using new basis stock levels. See Summary Statistics Explanatory Note 4.
R = Revised data. (s) = Less than 500 barrels per day. E = Estimated.
— = Not Applicable.
* See Summary Statistics Explanatory Note 1.
Notes: • Italics denote estimates based upon preliminary data. • Geographic coverage is the 50 States and the District of Columbia. • Totals may not equal sum of components due to independent rounding.
Source: See Summary Statistics Table and Figure Sources.

Figure S11. Jet Fuel Supply and Disposition, August 1997 - Present



Source: Energy Information Administration, *Petroleum Supply Monthly*, Table S7. See Summary Statistics Table and Figure Sources.

Figure S12. Jet Fuel Ending Stocks, August 1997 - Present



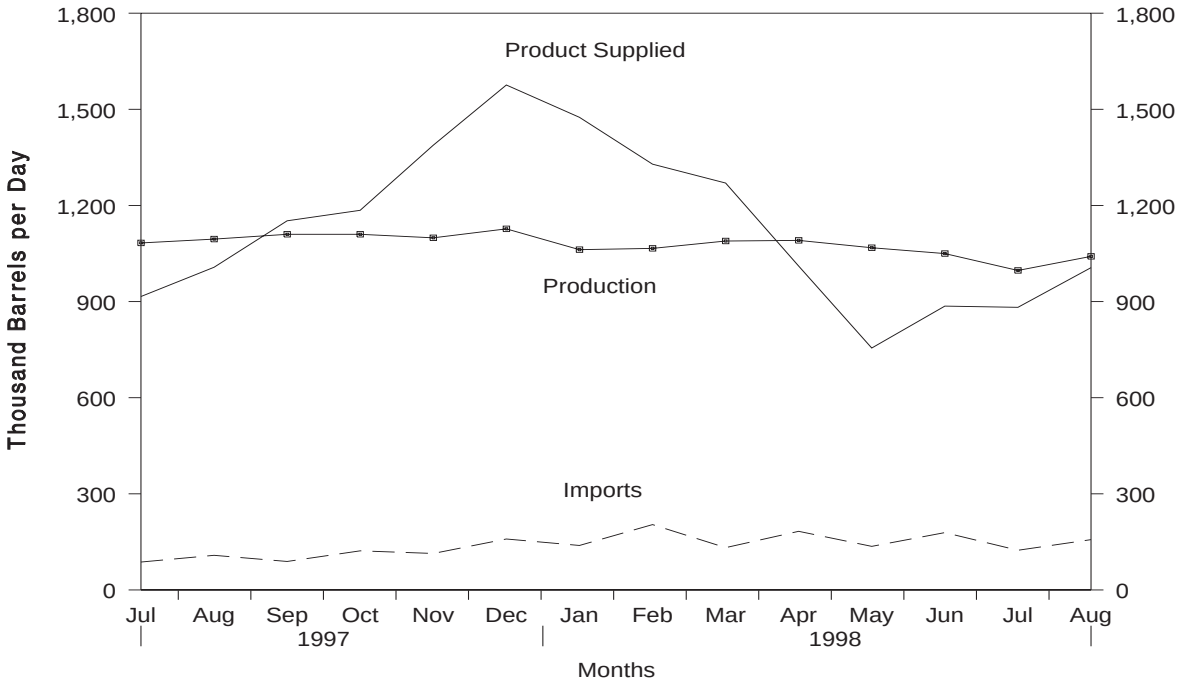
Note: The Observed Minimum for total jet fuel stocks in the last 36-month period was 34.1 million barrels, occurring in March 1996.
Source: Energy Information Administration, *Petroleum Supply Monthly*, Table S7. See Summary Statistics Table and Figure Sources.

Table S7. Jet Fuel Supply and Disposition, 1982 - Present
(Thousand Barrels per Day, Except Where Noted)

Year/Month	Supply			Disposition				Ending Stocks[a] (Million Barrels)	
	Production		Imports	Stock Change[b]	Exports	Product Supplied			
	Total	Kerosene-Type				Total	Kerosene-Type	Total	Kerosene-Type
1982 Average	**978**	**778**	**29**	**-12**	**6**	**1,013**	**804**	[c] **37**	[c] **31**
1983 Average	**1,022**	**817**	**29**	[c] **(s)**	**6**	**1,046**	**839**	**39**	**32**
1984 Average	**1,132**	**919**	**62**	**9**	**9**	**1,175**	**953**	**42**	**35**
1985 Average	**1,189**	**983**	**39**	**-4**	**13**	**1,218**	**1,005**	**40**	**34**
1986 Average	**1,293**	**1,097**	**57**	**25**	**18**	**1,307**	**1,105**	**50**	**43**
1987 Average	**1,343**	**1,138**	**67**	**(s)**	**24**	**1,385**	**1,181**	**50**	**42**
1988 Average	**1,370**	**1,164**	**90**	**-17**	**28**	**1,449**	**1,236**	**44**	**38**
1989 Average	**1,403**	**1,197**	**106**	**-8**	**27**	**1,489**	**1,284**	**41**	**34**
1990 Average	**1,488**	**1,311**	**108**	**31**	**43**	**1,522**	**1,340**	**52**	**46**
1991 Average	**1,438**	**1,274**	**67**	**-9**	**43**	**1,471**	**1,296**	**49**	**44**
1992 Average	**1,399**	**1,254**	**82**	**-16**	**43**	**1,454**	**1,310**	**43**	**39**
1993 Average	**1,422**	**1,309**	**100**	**-7**	**59**	**1,469**	**1,357**	**40**	**38**
1994 Average	**1,448**	**1,410**	**117**	**18**	**20**	**1,527**	**1,480**	**47**	**46**
1995 Average	**1,416**	**1,407**	**106**	**-19**	**26**	**1,514**	**1,497**	**40**	**39**
1996 January	1,596	1,593	89	-49	111	1,624	1,607	38	38
February	1,499	1,495	100	-129	67	1,661	1,658	35	35
March	1,470	1,468	105	-24	59	1,541	1,547	34	34
April	1,466	1,464	113	51	11	1,517	1,515	36	35
May	1,419	1,418	122	39	13	1,489	1,467	37	37
June	1,514	1,512	127	71	11	1,558	1,556	39	39
July	1,496	1,493	89	-14	27	1,572	1,569	38	38
August	1,510	1,507	104	-2	34	1,582	1,580	38	38
September	1,650	1,647	159	152	51	1,606	1,604	43	43
October	1,485	1,484	126	-55	35	1,631	1,636	41	41
November	1,501	1,500	87	-45	45	1,588	1,588	40	40
December	1,575	1,574	110	(s)	115	1,570	1,573	40	40
Average	**1,515**	**1,513**	**111**	**(s)**	**48**	**1,578**	**1,575**	**—**	**—**
1997 January	1,491	1,491	100	-101	78	1,615	1,614	37	37
February	1,511	1,510	116	31	23	1,572	1,571	38	38
March	1,488	1,487	106	55	11	1,529	1,528	39	39
April	1,493	1,492	98	11	21	1,559	1,558	40	40
May	1,515	1,514	91	46	9	1,551	1,551	41	41
June	1,581	1,580	108	77	38	1,574	1,573	43	43
July	1,619	1,618	86	-14	33	1,685	1,685	43	43
August	1,580	1,579	103	7	27	1,648	1,648	43	43
September	1,593	1,592	87	78	16	1,586	1,585	46	46
October	1,581	1,580	77	19	40	1,599	1,599	46	46
November	1,609	1,608	55	8	44	1,612	1,612	46	46
December	1,588	1,588	63	-75	78	1,647	1,647	44	44
Average	**1,554**	**1,554**	**91**	**11**	**35**	**1,599**	**1,598**	**—**	**—**
1998 January	1,504	1,503	67	9	37	1,525	1,524	44	44
February	1,447	1,447	99	-70	25	1,590	1,590	42	42
March	1,504	1,503	96	24	36	1,540	1,547	43	43
April	1,509	1,508	60	-51	32	1,588	1,588	41	41
May	1,472	1,471	104	55	25	1,495	1,497	43	43
June	1,555	1,555	66	42	25	1,555	1,555	44	44
July	1,484	1,483	45	-71	28	1,571	1,573	42	42
August	[R] 1,605	[R] 1,604	[R] 70	[R] 140	[R] 8	[R] 1,526	[R] 1,527	[R] 47	[R] 47
September*	[E] *1,520*	[E] *1,519*	[E] *62*	[E] *-4*	[E] *29*	[E] *1,556*	[E] *1,556*	[E] *44*	[E] *44*
9-Mo. Average	[E] **1,512**	[E] **1,511**	[E] **74**	[E] **9**	[E] **27**	[E] **1,549**	[E] **1,550**	**—**	**—**
1997 9-Mo. Average	**1,541**	**1,541**	**99**	**21**	**28**	**1,591**	**1,591**	**—**	**—**
1996 9-Mo. Average	**1,513**	**1,511**	**112**	**11**	**43**	**1,572**	**1,567**	**—**	**—**

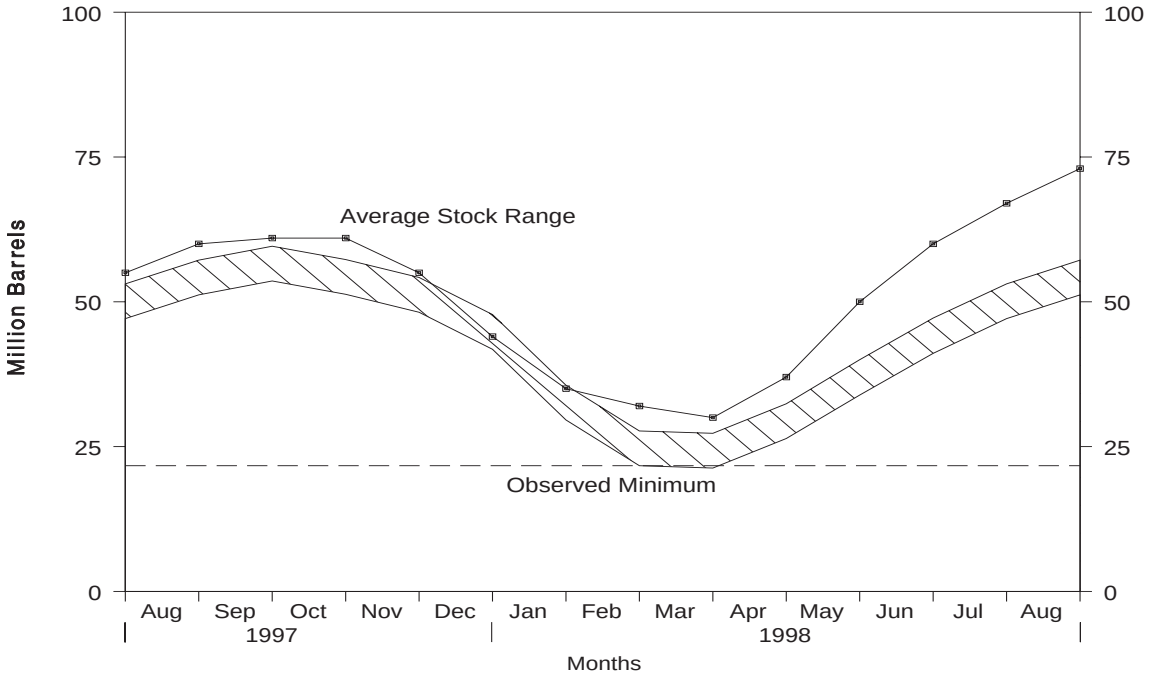
[a] Stocks are totals as of end of period.
[b] A negative number indicates a decrease in stocks and a positive number indicates an increase.
[c] In January 1981, 1983, and 1984, a new stock basis was established affecting stocks reported and stock change calculations. Stock changes are calculated using new basis stock levels. See Summary Statistics Explanatory Note 4.
R = Revised data. (s) = Less than 500 barrels per day. E= Estimated.
— = Not Applicable.
* See Summary Statistics Explanatory Note 1.
Notes: • Italics denote estimates based upon preliminary data.• Geographic coverage is the 50 States and the District of Columbia. • Totals may not equal sum of components due to independent rounding.
Source: See Summary Statistics Table and Figure Sources.

Figure S13. Propane/Propylene Supply and Disposition, July 1997 - Present



Source: Energy Information Administration, *Petroleum Supply Monthly*, Table S8. See Summary Statistics Table and Figure Sources.

Figure S14. Propane/Propylene Ending Stocks, July 1997 - Present



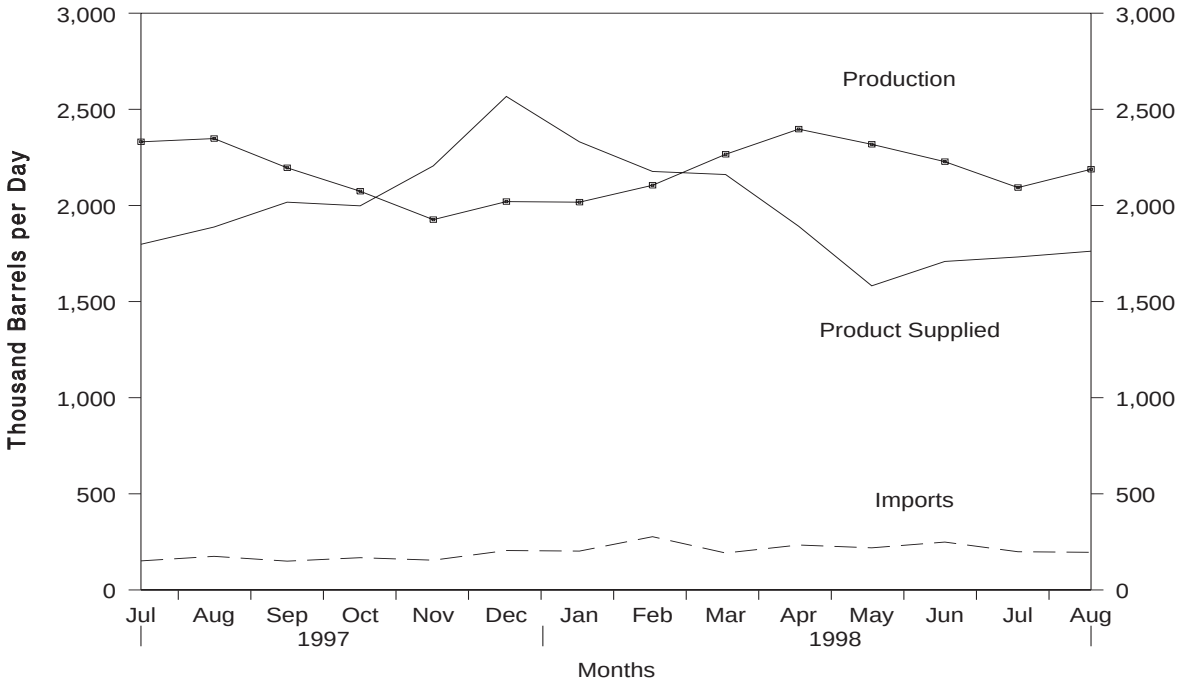
Note: The Observed Minimum for propane stocks in the last 36 month period was 21.7 million barrels, occurring in February 1996.
Source: Energy Information Administration, *Petroleum Supply Monthly*, Table S8. See Summary Statistics Table and Figure Sources.

Table S8. Propane/Propylene Supply and Disposition, 1982 - Present
(Thousand Barrels per Day, Except Where Noted)

Year/Month		Supply		Disposition				Ending Stocks[b] (Million Barrels)
		Total Production	Imports	Stock Change[a]	Refinery Inputs	Exports	Product Supplied	
1982	**Average**	**711**	**63**	**-59**	**4**	**31**	**798**	**[c] 54**
1983	**Average**	**730**	**44**	**[c] -24**	**4**	**43**	**751**	**[c] 48**
1984	**Average**	**806**	**67**	**[c] 7**	**4**	**30**	**833**	**58**
1985	**Average**	**816**	**67**	**-50**	**3**	**48**	**883**	**39**
1986	**Average**	**817**	**110**	**64**	**4**	**28**	**831**	**63**
1987	**Average**	**828**	**88**	**-41**	**8**	**24**	**924**	**48**
1988	**Average**	**863**	**106**	**7**	**8**	**31**	**923**	**50**
1989	**Average**	**862**	**111**	**-52**	**11**	**24**	**990**	**32**
1990	**Average**	**878**	**115**	**48**	**(s)**	**28**	**917**	**49**
1991	**Average**	**915**	**91**	**-3**	**(s)**	**28**	**982**	**48**
1992	**Average**	**956**	**85**	**-24**	**(s)**	**33**	**1,032**	**39**
1993	**Average**	**963**	**103**	**34**	**(s)**	**26**	**1,006**	**51**
1994	**Average**	**969**	**124**	**-13**	**0**	**24**	**1,082**	**46**
1995	**Average**	**1,021**	**102**	**-10**	**0**	**38**	**1,096**	**43**
1996	January	995	151	-353	0	30	1,468	32
	February	1,001	106	-347	0	39	1,415	22
	March	1,043	116	-1	0	25	1,135	22
	April	1,047	78	114	0	31	981	25
	May	1,048	104	209	0	21	922	32
	June	1,031	122	293	0	21	839	41
	July	1,043	114	188	0	29	940	46
	August	1,051	126	83	0	24	1,069	49
	September	1,057	95	97	0	21	1,034	52
	October	1,058	151	-37	0	29	1,218	51
	November	1,063	147	-148	0	34	1,324	46
	December	1,093	122	-106	0	31	1,289	43
	Average	**1,044**	**119**	**(s)**	**0**	**28**	**1,136**	**—**
1997	January	1,039	149	-340	0	28	1,501	32
	February	1,044	126	-276	0	42	1,404	25
	March	1,059	114	92	0	40	1,041	28
	April	1,112	109	150	0	32	1,039	32
	May	1,114	92	252	0	23	930	40
	June	1,110	88	250	0	31	916	47
	July	1,083	87	231	0	24	916	55
	August	1,095	108	172	0	24	1,007	60
	September	1,110	89	30	0	16	1,152	61
	October	1,110	122	17	0	29	1,185	61
	November	1,099	114	-223	0	48	1,388	55
	December	1,127	159	-342	0	53	1,576	44
	Average	**1,092**	**113**	**3**	**0**	**32**	**1,170**	**—**
1998	January	1,062	139	-303	0	29	1,475	35
	February	1,066	204	-87	0	28	1,329	32
	March	1,089	132	-77	0	28	1,270	30
	April	1,091	183	241	0	22	1,011	37
	May	1,068	136	427	0	22	755	50
	June	1,050	179	329	0	13	886	60
	July	997	124	222	0	17	882	67
	August	1,041	157	177	0	15	1,006	73
	8-Mo. Average	**1,058**	**156**	**117**	**0**	**22**	**1,075**	**—**
1997	**8-Mo. Average**	**1,082**	**109**	**69**	**0**	**30**	**1,091**	**—**
1996	**8-Mo. Average**	**1,033**	**115**	**25**	**0**	**28**	**1,095**	**—**

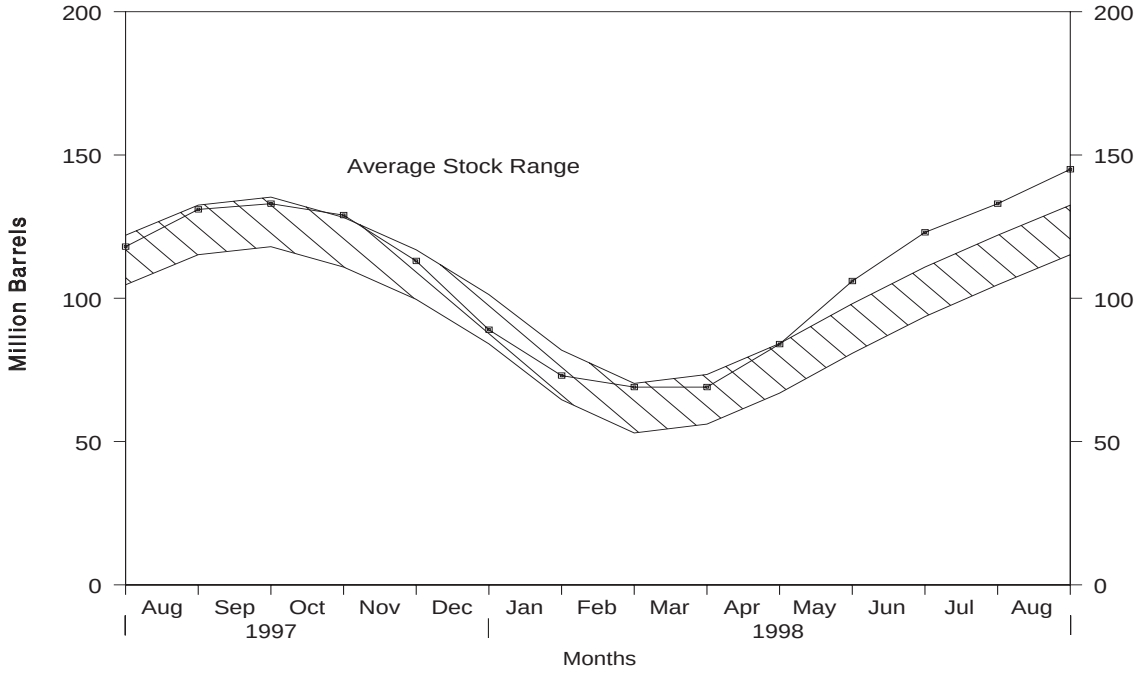
[a] A negative number indicates a decrease in stocks and a positive number indicates an increase.
[b] Stocks are totals as of end of period.
[c] In January 1981, 1983, and 1984, a new stock basis was established affecting stocks reported and stock change calculations. Stock changes are calculated using new basis stock levels. See Summary Statistics Explanatory Note 4.
(s) = Less than 500 barrels per day.
— = Not Applicable.
Notes: • Geographic coverage is the 50 States and the District of Columbia. • Totals may not equal sum of components due to independent rounding.
Source: See Summary Statistics Table and Figure Sources.

Figure S15. Liquefied Petroleum Gases Supply and Disposition, July 1997 - Present



Source: Energy Information Administration, *Petroleum Supply Monthly*, Table S9. See Summary Statistics Table and Figure Sources.

Figure S16. Liquefied Petroleum Gases Ending Stocks, July 1997 - Present



Source: Energy Information Administration, *Petroleum Supply Monthly*, Table S9. See Summary Statistics Table and Figure Sources.

Table S9. Liquefied Petroleum Gases Supply and Disposition, 1982 - Present
(Thousand Barrels per Day, Except Where Noted)

Year/Month		Supply		Disposition				Ending Stocks[b] (Million Barrels)
		Total Production	Imports	Stock Change[a]	Refinery Inputs	Exports	Product Supplied	
1982	**Average**	**1,528**	**226**	**-111**	**300**	**65**	**1,499**	[c] **94**
1983	**Average**	**1,642**	**190**	[c] **-4**	**253**	**73**	**1,509**	[c] **101**
1984	**Average**	**1,697**	**195**	[c] **-19**	**291**	**48**	**1,572**	**101**
1985	**Average**	**1,704**	**187**	**-75**	**304**	**62**	**1,599**	**74**
1986	**Average**	**1,695**	**242**	**80**	**302**	**42**	**1,512**	**103**
1987	**Average**	**1,748**	**190**	**-15**	**304**	**38**	**1,612**	**97**
1988	**Average**	**1,817**	**209**	**1**	**321**	**49**	**1,656**	**97**
1989	**Average**	**1,791**	**181**	**-47**	**315**	**35**	**1,668**	**80**
1990	**Average**	**1,749**	**188**	**48**	**293**	**40**	**1,556**	**98**
1991	**Average**	**1,871**	**147**	**-15**	**304**	**41**	**1,689**	**92**
1992	**Average**	**1,972**	**131**	**-10**	**309**	**49**	**1,755**	**89**
1993	**Average**	**1,993**	**160**	**49**	**327**	**43**	**1,734**	**106**
1994	**Average**	**2,012**	**183**	**-19**	**296**	**38**	**1,880**	**99**
1995	**Average**	**2,082**	**146**	**-17**	**289**	**58**	**1,899**	**93**
1996	January	1,906	208	-649	419	49	2,295	73
	February	1,912	138	-596	320	60	2,267	56
	March	2,181	165	15	246	38	2,047	56
	April	2,305	122	279	226	56	1,867	65
	May	2,287	156	315	215	67	1,846	74
	June	2,285	184	439	211	36	1,783	87
	July	2,264	182	385	201	72	1,787	99
	August	2,271	166	321	201	50	1,864	109
	September	2,194	150	165	260	47	1,871	114
	October	2,133	183	-103	309	37	2,073	111
	November	2,041	177	-466	377	41	2,265	97
	December	2,086	159	-352	355	56	2,186	86
	Average	**2,156**	**166**	**-19**	**278**	**51**	**2,012**	**—**
1997	January	2,009	193	-543	344	36	2,365	69
	February	2,072	178	-450	321	78	2,301	57
	March	2,210	163	214	244	62	1,854	63
	April	2,355	169	349	211	41	1,923	74
	May	2,364	161	481	200	40	1,804	89
	June	2,369	160	534	203	43	1,748	105
	July	2,331	151	433	195	56	1,798	118
	August	2,348	175	408	190	37	1,888	131
	September	2,196	150	54	247	29	2,017	133
	October	2,074	168	-100	302	42	1,998	129
	November	1,926	155	-535	345	66	2,206	113
	December	2,020	205	-770	354	74	2,567	89
	Average	**2,190**	**169**	**9**	**263**	**50**	**2,038**	**—**
1998	January	2,017	202	-522	356	53	2,331	73
	February	2,105	277	-166	320	52	2,177	69
	March	2,266	192	16	241	41	2,161	69
	April	2,397	234	497	203	39	1,892	84
	May	2,318	219	723	200	31	1,582	106
	June	2,228	249	538	202	28	1,709	123
	July	2,093	199	331	194	34	1,732	133
	August	2,188	196	398	199	25	1,762	145
	8-Mo. Average	**2,202**	**220**	**229**	**239**	**38**	**1,916**	**—**
1997	**8-Mo. Average**	**2,259**	**169**	**184**	**238**	**49**	**1,957**	**—**
1996	**8-Mo. Average**	**2,177**	**165**	**67**	**255**	**53**	**1,968**	**—**

[a] A negative number indicates a decrease in stocks and a positive number indicates an increase.
[b] Stocks are totals as of end of period.
[c] In January 1981, 1983, and 1984, a new stock basis was established affecting stocks reported and stock change calculations. Stock changes are calculated using new basis stock levels. See Summary Statistics Explanatory Note 4.
— = Not Applicable.
Notes: • Liquefied petroleum gases includes ethane/ethylene, propane/propylene, normal butane/butylene, and isobutane/isobutylene. • Beginning in January 1984, unfractionated stream, is reported by individual product. • Geographic coverage is the 50 States and the District of Columbia. • Totals may not equal sum of components due to independent rounding.
Source: See Summary Statistics Table and Figure Sources.

Table S10. Other Petroleum Products Supply and Disposition, 1982 - Present
(Thousand Barrels per Day, Except Where Noted)

Year/Month		Supply		Disposition				Ending Stocks[b] (Million Barrels)
		Total Production	Imports	Stock Change[a]	Refinery Inputs	Exports	Products Supplied	
1982	**Average**	**2,475**	**305**	**-68**	**787**	**205**	**1,856**	**[c] 216**
1983	**Average**	**2,437**	**382**	**[c] -6**	**712**	**236**	**1,877**	**[c] 217**
1984	**Average**	**2,500**	**503**	**[c] -32**	**791**	**236**	**2,007**	**198**
1985	**Average**	**2,532**	**550**	**22**	**886**	**227**	**1,947**	**206**
1986	**Average**	**2,704**	**504**	**-15**	**888**	**291**	**2,045**	**201**
1987	**Average**	**2,737**	**543**	**-1**	**829**	**264**	**2,187**	**200**
1988	**Average**	**2,773**	**645**	**22**	**799**	**294**	**2,303**	**208**
1989	**Average**	**2,771**	**627**	**12**	**797**	**305**	**2,285**	**213**
1990	**Average**	**2,842**	**705**	**-32**	**887**	**289**	**2,402**	**201**
1991	**Average**	**2,826**	**675**	**18**	**936**	**277**	**2,269**	**208**
1992	**Average**	**2,928**	**707**	**-3**	**906**	**263**	**2,470**	**[c] 207**
1993	**Average**	**3,035**	**770**	**-2**	**1,081**	**300**	**2,426**	**206**
1994	**Average**	**2,973**	**761**	**[c] 24**	**861**	**329**	**2,518**	**215**
1995	**Average**	**3,031**	**708**	**[c] -23**	**958**	**348**	**2,457**	**206**
1996	January	2,833	873	448	613	335	2,311	220
	February	2,817	745	-18	872	388	2,320	219
	March	2,983	820	122	759	315	2,607	223
	April	3,108	828	174	841	421	2,500	228
	May	3,128	852	-45	1,010	427	2,588	227
	June	3,227	923	-203	1,207	399	2,748	221
	July	3,223	862	-170	1,131	361	2,764	216
	August	3,332	907	-311	1,289	448	2,812	206
	September	3,306	751	-56	1,083	410	2,620	204
	October	3,146	1,068	-84	1,023	323	2,952	202
	November	3,093	928	-34	1,113	366	2,576	201
	December	3,088	982	42	1,224	321	2,485	202
	Average	**3,108**	**879**	**-11**	**1,014**	**376**	**2,608**	**—**
1997	January	2,945	1,154	354	831	403	2,511	213
	February	2,953	1,010	239	944	332	2,448	220
	March	3,078	955	514	697	391	2,431	236
	April	3,136	1,054	-122	1,203	395	2,715	232
	May	3,329	1,156	127	1,089	446	2,823	236
	June	3,355	936	-468	1,345	417	2,997	222
	July	3,402	903	-214	1,069	380	3,069	215
	August	3,426	886	-83	994	460	2,940	213
	September	3,390	836	101	841	450	2,834	216
	October	3,227	957	-87	915	381	2,976	213
	November	3,078	754	-7	919	369	2,551	213
	December	3,113	744	3	981	396	2,476	213
	Average	**3,204**	**945**	**30**	**985**	**402**	**2,733**	**—**
1998	January	3,030	765	369	695	370	2,361	226
	February	3,042	760	396	623	360	2,422	237
	March	3,023	736	245	751	358	2,405	245
	April	3,138	916	-133	1,195	360	2,634	241
	May	3,263	974	-84	1,143	377	2,801	238
	June	3,298	940	-146	1,118	412	2,855	234
	July	3,451	799	-252	1,142	431	2,930	226
	August	3,574	697	-18	951	300	3,038	225
	8-Mo. Average	**3,230**	**823**	**44**	**955**	**371**	**2,683**	**—**
1997	**8-Mo. Average**	**3,206**	**1,007**	**44**	**1,020**	**404**	**2,745**	**—**
1996	**8-Mo. Average**	**3,083**	**852**	**(s)**	**966**	**386**	**2,583**	**—**

[a] A negative number indicates a decrease in stocks and a positive number indicates an increase.
[b] Stocks are totals as of end of period.
[c] In January 1981, 1983, and 1984, a new stock basis was established affecting stocks reported and stock change calculations. Stock changes are calculated using new basis stock levels. Bulk terminal and pipeline stocks of oxygenates were added beginning in January 1993. See Summary Statistics Explanatory Note 4.

— = Not Applicable.

Notes: • Other petroleum products includes pentanes plus, other hydrocarbons and oxygenates, unfinished oils, gasoline blending components and all finished petroleum products except finished motor gasoline, distillate fuel oil, residual fuel oil, jet fuel, liquefied petroleum gases, and crude oil product supplied. • Geographic coverage is the 50 States and the District of Columbia. • Totals may not equal sum of components due to independent rounding.

Source: See Summary Statistics Table and Figure Sources.

Summary Statistics Tables and Figures Sources

Information about petroleum supply and disposition at the National level are presented in the Summary Statistics tables. Industry terminology and product definitions are listed alphabetically in the Glossary.

The data presented in these tables are from several sources and represent different levels of timeliness and data finality.

- U.S. Department of Energy, Energy Information Administration (EIA), *Petroleum Supply Annual* (1981 through 1994).
- EIA, *Petroleum Supply Monthly* (January 1994 through August 1998).
- EIA, Weekly Petroleum Supply Reporting System (except domestic crude oil production) (September 1998). A more detailed explanation is provided in Summary Statistics Explanatory Note 1.
- Domestic crude oil production estimate is based on historical statistics from State conservation agencies and the Minerals Management Service of the U.S. Department of the Interior. (January 1994 through September 1998). Refer to Summary Statistics Explanatory Note 2 for a more detailed explanation.

Summary Statistics Explanatory Notes

The following explanatory notes are provided to assist in understanding and interpreting the data presented in the Summary Statistics section of this publication.

Note 1. Preliminary Monthly Statistics Derivation

Data collected from the Weekly Petroleum Supply Reporting System (WPSRS) are used to develop estimates of the most current monthly quantities. 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 Stocks Report"
EIA-804	"Weekly Imports Report"

A sample of all petroleum companies report weekly data to the Energy Information Administration (EIA) on crude oil and petroleum products 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.

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 a 12-month period. Companies are chosen for the sample beginning with the largest companies with additional companies added until the total sample coverage represents a minimum of 90 percent of each item by geographic region being measured. All monthly-from-weekly estimates are shown in italics.

In calculating monthly estimates based upon weekly submissions, an interpolation process is used to make the weekly figures comparable to the monthly. The interpolation process is designed to resolve the timing differences between the weekly and the monthly systems — the time-of-day of reporting periods and the day-of-month of reporting periods. The end of the weekly reporting period (exactly 1 week long) is 7 a.m. Friday. The end of the monthly reporting period (one calendar month long) is 12 midnight on the last day of the month. To resolve the difference in the time-of-day of the weekly and monthly reporting periods, it is assumed that there is no activity during the period 12 midnight Thursday through 7 a.m. Friday. Thus, for the purposes of interpolation, the weekly system reporting period is assumed to end at 12 midnight on Thursday. The resolution of the day-of-month differences depends on whether the series is a cumulative one (such as production and imports) or a value at a fixed point-in-time (i.e., stocks).

For cumulative items (all items except stocks) the following method is used to calculate a monthly-from-weekly figure for a given month. First, a weight is assigned to each week in the month based on the number of days in that week that are in the month. (All intermediate weeks in a month will have a weight of seven; the beginning and ending weeks in the month may have a weight of less than seven, according to the number of days of the week that are in the month.) The weight for each week is then multiplied by the average daily volume for that week. To arrive at the monthly-from-weekly figure, a sum is taken of these weighted weekly volumes. The daily average for the monthly-from-weekly figure is calculated by dividing the total monthly-from-weekly figure by the number of days in the month.

Stock figures are not cumulative but represent inventories as of the last day of the reporting period. When the reporting week does not coincide with the end of a reporting month, an interpolation is necessary to derive a monthly-from-weekly figure for end-of-month stocks.

To derive the monthly-from-weekly stock figures, the two weekly reports that bracket the end of the month are used. Average daily stock change and the number of interpolated days are determined. The average daily stock change is defined as one-seventh of the difference between the stock level at the end of the last full week of the month and the stock level at the end of the week containing the last day of the month. The number of interpolation days is defined as the number of days between the end of the preceding weekly reporting period (midnight Thursday) and the end of the monthly reporting period. The end-of-month stock levels are then estimated as the sum of (a) the stock level reported the last full week of the month, plus (b) the number of interpolation days multiplied by the average daily stock change for the week.

The monthly-from-weekly exports data are derived from the most recent data published in the *Weekly Petroleum Status Report*. Beginning with statistics for the first week ending in October 1991, weekly estimates of exports are forecast using an autoregressive integrated moving-average (ARIMA) procedure. The ARIMA procedure models a value as a linear combination of its own past values and present and past values of other related time series. The most recent 5 years of

past data are used to obtain the forecast. In addition, for the major products and crude oil, 5 years of related price data are used. The price data include some U.S. and some foreign series.

Note 2. Domestic Crude Oil Production

The Energy Information Administration (EIA) collects monthly crude oil production data on an ongoing basis. Data on crude oil production for States are reported to the EIA by State government agencies. Data on crude oil production for Federal offshore areas are reported to the EIA by the Minerals Management Service of the U.S. Department of the Interior and the Conservation Committee of California Oil Producers.

Currently, all except four crude oil producing States (Michigan, New York, Ohio, and Pennsylvania) report production on a monthly basis. These four States report crude oil production on an annual basis. Estimates of monthly crude oil production for these four States are made by the EIA using data reported on Form EIA-182, "Domestic Crude Oil First Purchase Report." After the end of each calendar year, the monthly crude oil production estimates are updated using annual reports from various State agencies, the Minerals Management Service, and the Conservation Committee of California Oil Producers. The final estimate is published in the *Petroleum Supply Annual.* There is a time lag of approximately 4 months between the end of the production month and the time when most monthly State crude oil production data become available.

In order to present more timely crude oil production estimates, the EIA prepares an original, forecast estimate on the first day of the production month (indicated with a "PE"). Approximately 45 days later, this original estimate of monthly crude oil production is replaced by State-level interim estimates (indicated with an "RE"). The State-level interim estimates are based on: (a) data reported by the States (e.g., production data for Alaska are typically reported to the EIA before the interim estimate is made); (b) first purchase data reported on Form EIA-182, "Domestic Crude Oil First Purchase Report;" (c) exponential or hyperbolic curve fitted projections based on recent State data; or (d) constant level projections based on the average production rate during a recent time period.

Note 3. Figures

Figures associated with the Summary Statistics tables are provided which depict the balance between supply, disposition, and ending stocks for various commodities.

The national inventory (stocks) graphs (Figures S4, S6, S8, S10, S12, S14, and S16) for crude oil, finished motor gasoline, distillate fuel oil, residual fuel oil, jet fuel, propane/propylene, and liquefied petroleum gases, in this publication include features to assist in comparing current inventory levels with past inventory levels and observed minimum operating levels. These features are described below.

The graphs displaying inventory levels provide the reader with actual inventory data compared to an *average range* from the most recent 3-year period running from January through December or from July through June. The ranges are updated every 6 months in April and October. The 3-year period is adjusted by dropping the oldest 6 months and including the most recent 6 months. The ranges also reflect seasonal variation determined from a 7-year period. The seasonal factors, which determine the shape of the upper and lower curves, are updated annually in October, using the most recent year's final monthly data.

The monthly seasonal factors are estimated by means of a seasonal adjustment technique developed at the U.S. Bureau of the 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 variation from the data. Thus, a deseasonalized series would contain the same trends, cyclical components, and irregularities as the original data.

After seasonal factors are derived, data from the most recent 3-year period (January through December or July through June) are deseasonalized. The average of the deseasonalized 36-month series determines the midpoint of the deseasonalized average band. The standard deviation of the deseasonalized 36 months is calculated adjusting for extreme data points. The upper curve of the average range is defined as the 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 lines labeled "observed minimum" are the lowest inventory level observed during the most recent 36-month period as published in the *Petroleum Supply Monthly*.

Note 4. Frames Maintenance

In January 1981 and 1983, numerous respondents were added to bulk terminal and pipeline surveys affecting subsequent stocks reported and stock change calculations. Using the expanded coverage (new basis), the end-of-year stocks, in million barrels, would have been as listed below.

- Crude Oil: 1982- 645 (Total) and 351 (Other Primary).

- Crude Oil and Petroleum Products: 1980- 1,425; and 1982- 1,461.
- Motor Gasoline: 1980- 263 (Total) and 214 (Finished); 1982- 244 (Total) and 202 (Finished).
- Distillate Fuel Oil: 1980- 205; and 1982- 186.
- Residual Fuel Oil: 1980- 91; and 1982- 69.
- Jet Fuel: 1980- 42 (Total) and 36 (Kerosene-type); and 1982- 39 (Total) and 32 (Kerosene-type).
- Propane/Propylene: 1980- 69; and 1982- 57.
- Liquefied Petroleum Gases: 1980- 128; and 1982-102.
- Other Petroleum Products: 1980- 207; and 1982-219.

Stock change calculations beginning in 1981 and 1983 were made using new basis stock levels.

Stocks of Alaskan crude oil in-transit were included for the first time in January 1981. The major impact of this change is on the reporting of stock change calculations. Using the expanded coverage (new basis), 1980 end-of-year crude oil stocks would have been 488 million barrels (Total) and 380 million barrels (Other Primary).

Beginning with January 1984, natural gas liquids supply and disposition data were collected on a component basis rather than a product basis. This change affected stocks reported and stock change calculations. Under the new basis, end-of-year 1983 stocks would have been:

- Propane/Propylene: 1983- 55.
- Liquefied Petroleum Gases: 1983- 108.
- Other Petroleum Products: 1983- 210.

In response to changes in the Clean Air Act Amendments of 1990 requiring that all gasoline sold in carbon monoxide nonattainment areas have an oxygen content of 2.7 percent (by weight) during winter months, the Energy Information Administration (EIA) conducted a frame identifier survey in 1991 of companies that produce, blend, store, or import oxygenates. The purpose of this survey was to (1) identify all U.S. producers, blenders, storers, and importers of oxygenates; and (2) collect supply and blending data for 1990 and end of 1990 inventory data on those oxygenates blended into motor gasoline. A summary of the results from the identification survey were published in the *Weekly Petroleum Status Report* dated February 12, 1992 and in the February 1992 issue of the *Petroleum Supply Monthly*.

In order to continue to provide relevant information about U.S. and regional gasoline supply, the EIA conducted a second frame identifier survey of these companies during 1992. As a result, a number of respondents were added to the monthly surveys effective in January 1993: 19 blenders, 25 stock holders, and 8 importers. This change did not affect stocks reported and therefore did not cause a new basis stock level to be calculated.

Table 1. U.S. Petroleum Balance, August 1998

	Commodity	Current Month		Year to Date	
		Thousand Barrels	Thousand Barrels per Day	Thousand Barrels	Thousand Barrels per Day
	Crude Oil				
	Field Production				
(1)	Alaska	E 35,108	E 1,133	E 287,963	E 1,185
(2)	Lower 48 States	E 159,448	E 5,143	E 1,266,778	E 5,213
(3)	**Total U.S.**	**E 194,556**	**E 6,276**	**E 1,554,741**	**E 6,398**
	Net Imports				
(4)	Imports (Gross Excluding Strategic Petroleum Reserve (SPR))	283,435	9,143	2,086,102	8,585
(5)	SPR Imports	0	0	0	0
(6)	Exports	1,585	51	31,756	131
(7)	**Imports (Net Including SPR)**	**281,850**	**9,092**	**2,054,346**	**8,454**
	Other Sources				
(8)	SPR Stock Change (Withdrawal (+), Addition (-))	0	0	3	(s)
(9)	Other Stock Change (Withdrawal (+), Addition (-))	9,070	293	-25,438	-105
(10)	Product Supplied and Losses	0	0	-1	(s)
(11)	Unaccounted for[a]	-8	(s)	49,265	203
(12)	**Total Other Sources**	**9,062**	**292**	**23,829**	**98**
(13)	**Crude Input to Refineries**	**485,468**	**15,660**	**3,632,917**	**14,950**
	(13) = (3) + (7) + (12)				
	Natural Gas Liquids (NGL)				
(14)	Field Production[b]	57,215	1,846	473,888	1,950
(15)	Net Imports[c]	1,440	46	3,670	15
(16)	Stock Change (Withdrawal (+), Addition (-))[c]	-1,224	-39	-3,572	-15
(17)	**Total NGL Supply**	**57,431**	**1,853**	**473,985**	**1,951**
	Other Liquids				
	Unfinished Oils and Gasoline Blending Components, Total				
(18)	Stock Change (Withdrawal (+), Addition (-))	-212	-7	-6,280	-26
(19)	Net Imports	10,778	348	117,836	485
(20)	Other Liquids New Supply(Field Production)	7,649	247	45,641	188
(21)	Refinery Processing Gain[a]	28,371	915	207,236	853
(22)	Crude Oil Product Supplied	0	0	0	0
(23)	**Total Other Liquids**	**46,586**	**1,503**	**364,433**	**1,500**
	(23) = (18) through (22)				
(24)	**Total Production of Products**	**589,485**	**19,016**	**4,471,335**	**18,401**
	(24) = (13) + (17) + (23)				
	Net Imports of Refined Products				
(25)	Imports (Gross)	38,097	1,229	309,805	1,275
(26)	Exports	20,646	666	194,252	799
(27)	**Imports (Net)**	**17,451**	**563**	**115,553**	**476**
(28)	**Total New Supply of Products**	**606,936**	**19,579**	**4,586,888**	**18,876**
	(28) = (24) + (27)				
(29)	Refined Products Stock Change (Withdrawal (+), Addition (-))	-14,600	-471	-74,657	-307
(30)	**Total Petroleum Products Supplied for Domestic Use**	**592,336**	**19,108**	**4,512,231**	**18,569**
	(30) = (28) + (29)				
(31)	Finished Motor Gasoline	263,491	8,500	1,978,373	8,141
(32)	Distillate Fuel Oil	106,692	3,442	838,689	3,451
(33)	Residual Fuel Oil	26,043	840	201,313	828
(34)	Jet Fuel	47,311	1,526	376,207	1,548
(35)	Liquefied Petroleum Gases	54,629	1,762	465,575	1,916
(36)	Other[d]	94,170	3,038	652,075	2,683
(37)	Crude Oil	0	0	0	0
(38)	**Total Products Supplied**	**592,336**	**19,108**	**4,512,231**	**18,569**
	(38) = (31) through (37)				
	Ending Stocks, All Oils				
(39)	Crude Oil (Excluding SPR)	330,127	—	330,127	—
(40)	Strategic Petroleum Reserve	563,426	—	563,426	—
(41)	Finished Motor Gasoline	168,778	—	168,778	—
(42)	Distillate Fuel Oil	150,466	—	150,466	—
(43)	Residual Fuel Oil	41,693	—	41,693	—
(44)	Jet Fuel	46,553	—	46,553	—
(45)	Liquefied Petroleum Gases	145,208	—	145,208	—
(46)	Other[d]	225,317	—	225,317	—
(47)	**Total Stocks**	**1,671,568**	**—**	**1,671,568**	**—**
	(47) = (39) through (46)				

[a] Unaccounted for crude oil represents the difference between the supply and disposition of crude oil. Refinery processing gain represents the volumetric amount by which total output is greater than input for a given period of time. Preliminary estimates of crude oil imports at the National level have historically understated final values by approximately 50 thousand barrels per day. This causes the preliminary values of unaccounted for crude oil to overstate the final values by the same amount.

[b] Includes field production of fuel ethanol and an adjustment for motor gasoline blending components.

[c] Includes products in the pentanes plus category only.

[d] Includes pentanes plus, other liquids, and all finished petroleum products except finished motor gasoline, distillate fuel oil, residual fuel oil, jet fuel, and liquefied petroleum gases.

E = Estimated.

— = Not Applicable.

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

Sources: • Energy Information Administration (EIA), Monthly Petroleum Supply Reporting System. • Domestic crude oil production estimates based on historical statistics from State conservation agencies and the Minerals Management Service of the U.S. Department of the Interior. • Export data from the Bureau of the Census and Form EIA-810, "Monthly Refinery Report ."

Table 2. U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, August 1998

(Thousand Barrels)

Commodity	Supply				Disposition					Ending Stocks
	Field Production	Refinery Production	Imports	Unaccounted For Crude Oil[a]	Stock Change[b]	Crude Losses	Refinery Inputs	Exports	Products Supplied[c]	
Crude Oil	E **194,556**	**—**	**283,435**	**-8**	**-9,070**	**0**	**485,468**	**1,585**	**0**	**893,553**
Natural Gas Liquids and LRGs	**53,113**	**24,580**	**7,548**	**—**	**13,557**	**—**	**10,278**	**822**	**60,584**	**154,491**
Pentanes Plus	9,859	—	1,474	—	1,224	—	4,121	34	5,954	9,283
Liquefied Petroleum Gases	43,254	24,580	6,074	—	12,333	—	6,157	789	54,629	145,208
Ethane/Ethylene	17,871	1,180	438	—	956	—	0	0	18,533	21,474
Propane/Propylene	15,393	16,869	4,871	—	5,475	—	0	478	31,180	72,555
Normal Butane/Butylene	4,372	6,063	360	—	5,498	—	2,200	311	2,786	41,831
Isobutane/Isobutylene	5,618	468	405	—	404	—	3,957	0	2,130	9,348
Other Liquids	**7,649**	**—**	**12,701**	**—**	**212**	**—**	**25,363**	**1,923**	**-7,148**	**151,934**
Other Hydrocarbons/Oxygenates	10,124	—	1,182	—	-769	—	10,970	1,105	0	12,551
Unfinished Oils	—	—	7,073	—	1,147	—	13,145	0	-7,219	96,902
Motor Gasoline Blend. Comp.	-2,475	—	4,446	—	-196	—	1,349	818	0	42,338
Aviation Gasoline Blend. Comp.	—	—	0	—	30	—	-101	0	71	143
Finished Petroleum Products	**4,102**	**524,900**	**32,023**	**—**	**2,267**	**—**	**—**	**19,858**	**538,901**	**471,590**
Finished Motor Gasoline	4,102	250,109	9,962	—	-3,685	—	—	4,367	263,491	168,778
Reformulated	—	77,314	5,186	—	-3,220	—	—	229	85,491	42,616
Oxygenated	16,270	1,833	0	—	10	—	—	30	18,063	1,310
Other	-12,168	170,962	4,776	—	-475	—	—	4,108	159,937	124,852
Finished Aviation Gasoline	—	770	3	—	4	—	—	0	769	1,547
Jet Fuel	—	49,742	2,159	—	4,336	—	—	254	47,311	46,553
Naphtha-Type	—	11	0	—	-2	—	—	29	-16	42
Kerosene-Type	—	49,731	2,159	—	4,338	—	—	225	47,327	46,511
Kerosene	—	2,767	1	—	209	—	—	6	2,553	6,269
Distillate Fuel Oil	—	107,622	5,376	—	1,667	—	—	4,639	106,692	150,466
0.05 percent sulfur and under	—	70,966	3,277	—	-3,098	—	—	1,246	76,095	72,839
Greater than 0.05 percent sulfur	—	36,656	2,099	—	4,765	—	—	3,393	30,597	77,627
Residual Fuel Oil	—	24,128	7,094	—	1,931	—	—	3,248	26,043	41,693
Naphtha For Petro. Feed. Use	—	7,662	1,883	—	-366	—	—	0	9,911	1,718
Other Oils For Petro. Feed. Use	—	7,322	3,955	—	339	—	—	0	10,938	2,638
Special Naphthas	—	2,499	206	—	172	—	—	748	1,785	2,169
Lubricants	—	6,087	300	—	318	—	—	726	5,343	12,257
Waxes	—	815	41	—	82	—	—	114	660	1,036
Petroleum Coke	—	22,469	0	—	522	—	—	5,568	16,379	10,698
Asphalt and Road Oil	—	19,237	1,038	—	-3,522	—	—	182	23,615	23,940
Still Gas	—	22,003	0	—	0	—	—	0	22,003	0
Miscellaneous Products	—	1,668	5	—	260	—	—	6	1,407	1,828
Total	**259,420**	**549,480**	**335,707**	**-8**	**6,966**	**0**	**521,109**	**24,187**	**592,336**	**1,671,568**

[a] Unaccounted for crude oil represents the difference between the supply and disposition of crude oil. Preliminary estimates of crude oil imports at the National level have historically understated final values by approximately 50,000 barrels per day. This causes the preliminary values of unaccounted for crude oil to overstate the final values by the same amount.

[b] A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks.

[c] Products supplied is equal to field production, plus refinery production, plus imports, plus unaccounted for crude oil, minus stock change, minus crude losses, minus refinery inputs, minus exports.

(s) = Less than 500 barrels.

E = Estimated.

LRG = Liquefied Refinery Gas.

— = Not Applicable.

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

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-811, "Monthly Bulk Terminal Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movement Report," and EIA-819M, "Monthly Oxygenate Telephone Report." Domestic crude oil production estimates based on historical statistics from State conservation agencies and the Minerals Management Service of the U.S. Department of the Interior. Export data from the Bureau of the Census and Form EIA-810, "Monthly Refinery Report."

Table 3. U.S. Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-August 1998

(Thousand Barrels)

Commodity	Supply				Disposition					Ending Stocks
	Field Production	Refinery Production	Imports	Unaccounted For Crude Oil[a]	Stock Change[b]	Crude Losses	Refinery Inputs	Exports	Products Supplied[c]	
Crude Oil	E **1,554,741**	**—**	**2,086,102**	**49,265**	**25,435**	**1**	**3,632,917**	**31,756**	**0**	**893,553**
Natural Gas Liquids and LRGs	**432,145**	**179,574**	**59,990**	**—**	**59,284**	**—**	**94,644**	**12,038**	**505,743**	**154,491**
Pentanes Plus	76,722	—	6,488	—	3,572	—	36,652	2,818	40,168	9,283
Liquefied Petroleum Gases	355,423	179,574	53,502	—	55,712	—	57,992	9,220	465,575	145,208
Ethane/Ethylene	150,182	7,992	4,077	—	2,567	—	0	0	159,684	21,474
Propane/Propylene	124,893	132,137	37,865	—	28,492	—	0	5,283	261,120	72,555
Normal Butane/Butylene	36,266	34,686	6,970	—	23,459	—	28,223	3,937	22,303	41,831
Isobutane/Isobutylene	44,082	4,759	4,590	—	1,194	—	29,769	0	22,468	9,348
Other Liquids	**45,641**	**—**	**125,307**	**—**	**6,280**	**—**	**195,297**	**7,471**	**-38,100**	**151,934**
Other Hydrocarbons/Oxygenates	75,519	—	14,449	—	95	—	86,148	3,725	0	12,551
Unfinished Oils	—	—	63,610	—	7,372	—	95,032	0	-38,794	96,902
Motor Gasoline Blend. Comp.	-29,879	—	47,248	—	-1,179	—	14,803	3,745	0	42,338
Aviation Gasoline Blend. Comp.	—	—	0	—	-8	—	-686	0	694	143
Finished Petroleum Products	**41,743**	**3,950,520**	**256,303**	**—**	**18,945**	**—**	**—**	**185,032**	**4,044,588**	**471,590**
Finished Motor Gasoline	41,743	1,896,265	72,584	—	2,663	—	—	29,556	1,978,373	168,778
Reformulated	—	601,400	38,379	—	82	—	—	799	638,898	42,616
Oxygenated	118,640	17,635	0	—	228	—	—	380	135,667	1,310
Other	-76,897	1,277,230	34,205	—	2,353	—	—	28,378	1,203,807	124,852
Finished Aviation Gasoline	—	4,962	36	—	-128	—	—	0	5,126	1,547
Jet Fuel	—	367,051	18,353	—	2,627	—	—	6,570	376,207	46,553
Naphtha-Type	—	138	0	—	16	—	—	408	-286	42
Kerosene-Type	—	366,913	18,353	—	2,611	—	—	6,163	376,492	46,511
Kerosene	—	17,406	206	—	-1,017	—	—	134	18,495	6,269
Distillate Fuel Oil	—	837,222	46,667	—	11,469	—	—	33,731	838,689	150,466
0.05 percent sulfur and under	—	537,047	25,026	—	4,223	—	—	9,161	548,689	72,839
Greater than 0.05 percent sulfur	—	300,175	21,641	—	7,246	—	—	24,571	289,999	77,627
Residual Fuel Oil	—	187,451	50,442	—	1,261	—	—	35,319	201,313	41,693
Naphtha For Petro. Feed. Use	—	57,376	15,041	—	-90	—	—	0	72,507	1,718
Other Oils For Petro. Feed. Use	—	54,808	42,032	—	446	—	—	0	96,394	2,638
Special Naphthas	—	16,623	1,685	—	-92	—	—	4,275	14,125	2,169
Lubricants	—	44,532	2,281	—	-952	—	—	6,146	41,619	12,257
Waxes	—	5,906	342	—	27	—	—	722	5,499	1,036
Petroleum Coke	—	170,782	194	—	1,208	—	—	66,306	103,462	10,698
Asphalt and Road Oil	—	116,560	6,352	—	1,603	—	—	2,156	119,153	23,940
Still Gas	—	160,850	0	—	0	—	—	0	160,850	0
Miscellaneous Products	—	12,726	88	—	-80	—	—	116	12,778	1,828
Total	**2,074,269**	**4,130,094**	**2,527,702**	**49,265**	**109,944**	**1**	**3,922,858**	**236,297**	**4,512,231**	**1,671,568**

[a] Unaccounted for crude oil represents the difference between the supply and disposition of crude oil. Preliminary estimates of crude oil imports at the National level have historically understated final values by approximately 50,000 barrels per day. This causes the preliminary values of unaccounted for crude oil to overstate the final values by the same amount.

[b] A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks.

[c] Products supplied is equal to field production, plus refinery production, plus imports, plus unaccounted for crude oil, minus stock change, minus crude losses, minus refinery inputs, minus exports.

(s) = Less than 500 barrels.

E = Estimated.

LRG = Liquefied Refinery Gas.

— = Not Applicable.

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

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-811, "Monthly Bulk Terminal Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movement Report," and EIA-819M, "Monthly Oxygenate Telephone Report." Domestic crude oil production estimates based on historical statistics from State conservation agencies and the Minerals Management Service of the U.S. Department of the Interior. Export data from the Bureau of the Census and Form EIA-810, "Monthly Refinery Report."

Table 4. U.S. Daily Average Supply and Disposition of Crude Oil and Petroleum Products, August 1998
(Thousand Barrels per Day)

Commodity	Supply				Disposition				
	Field Production	Refinery Production	Imports	Unaccounted For Crude Oil[a]	Stock Change[b]	Crude Losses	Refinery Inputs	Exports	Products Supplied[c]
Crude Oil	E **6,276**	**—**	**9,143**	**(s)**	**-293**	**0**	**15,660**	**51**	**0**
Natural Gas Liquids and LRGs	**1,713**	**793**	**243**	**—**	**437**	**—**	**332**	**27**	**1,954**
Pentanes Plus	318	—	48	—	39	—	133	1	192
Liquefied Petroleum Gases	1,395	793	196	—	398	—	199	25	1,762
Ethane/Ethylene	576	38	14	—	31	—	0	0	598
Propane/Propylene	497	544	157	—	177	—	0	15	1,006
Normal Butane/Butylene	141	196	12	—	177	—	71	10	90
Isobutane/Isobutylene	181	15	13	—	13	—	128	0	69
Other Liquids	**247**	**—**	**410**	**—**	**7**	**—**	**818**	**62**	**-231**
Other Hydrocarbons/Oxygenates	327	—	38	—	-25	—	354	36	0
Unfinished Oils	—	—	228	—	37	—	424	0	-233
Motor Gasoline Blend. Comp.	-80	—	143	—	-6	—	44	26	0
Aviation Gasoline Blend. Comp.	—	—	0	—	1	—	-3	0	2
Finished Petroleum Products	**132**	**16,932**	**1,033**	**—**	**73**	**—**	**—**	**641**	**17,384**
Finished Motor Gasoline	132	8,068	321	—	-119	—	—	141	8,500
Reformulated	—	2,494	167	—	-104	—	—	7	2,758
Oxygenated	525	59	0	—	(s)	—	—	1	583
Other	-393	5,515	154	—	-15	—	—	133	5,159
Finished Aviation Gasoline	—	25	(s)	—	(s)	—	—	0	25
Jet Fuel	—	1,605	70	—	140	—	—	8	1,526
Naphtha-Type	—	(s)	0	—	(s)	—	—	1	-1
Kerosene-Type	—	1,604	70	—	140	—	—	7	1,527
Kerosene	—	89	(s)	—	7	—	—	(s)	82
Distillate Fuel Oil	—	3,472	173	—	54	—	—	150	3,442
0.05 percent sulfur and under	—	2,289	106	—	-100	—	—	40	2,455
Greater than 0.05 percent sulfur	—	1,182	68	—	154	—	—	109	987
Residual Fuel Oil	—	778	229	—	62	—	—	105	840
Naphtha For Petro. Feed. Use	—	247	61	—	-12	—	—	0	320
Other Oils For Petro. Feed. Use	—	236	128	—	11	—	—	0	353
Special Naphthas	—	81	7	—	6	—	—	24	58
Lubricants	—	196	10	—	10	—	—	23	172
Waxes	—	26	1	—	3	—	—	4	21
Petroleum Coke	—	725	0	—	17	—	—	180	528
Asphalt and Road Oil	—	621	33	—	-114	—	—	6	762
Still Gas	—	710	0	—	0	—	—	0	710
Miscellaneous Products	—	54	(s)	—	8	—	—	(s)	45
Total	**8,368**	**17,725**	**10,829**	**(s)**	**225**	**0**	**16,810**	**780**	**19,108**

[a] Unaccounted for crude oil represents the difference between the supply and disposition of crude oil. Preliminary estimates of crude oil imports at the National level have historically understated final values by approximately 50,000 barrels per day. This causes the preliminary values of unaccounted for crude oil to overstate the final values by the same amount.

[b] A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks.

[c] Products supplied is equal to field production, plus refinery production, plus imports, plus unaccounted for crude oil, minus stock change, minus crude losses, minus refinery inputs, minus exports.

(s) = Less than 500 barrels per day.

E = Estimated.

LRG = Liquefied Refinery Gas.

— = Not Applicable.

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

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-811, "Monthly Bulk Terminal Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movement Report," and EIA-819M, "Monthly Oxygenate Telephone Report". Domestic crude oil production estimates based on historical statistics from State conservation agencies and the Minerals Management Service of the U.S. Department of the Interior. Export data from the Bureau of the Census and Form EIA-810, "Monthly Refinery Report."

Table 5. U.S. Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-August 1998

(Thousand Barrels per Day)

Commodity	Supply				Disposition				
	Field Production	Refinery Production	Imports	Unaccounted For Crude Oil[a]	Stock Change[b]	Crude Losses	Refinery Inputs	Exports	Products Supplied[c]
Crude Oil	E 6,398	—	8,585	203	105	(s)	14,950	131	0
Natural Gas Liquids and LRGs	**1,778**	**739**	**247**	**—**	**244**	**—**	**389**	**50**	**2,081**
Pentanes Plus	316	—	27	—	15	—	151	12	165
Liquefied Petroleum Gases	1,463	739	220	—	229	—	239	38	1,916
Ethane/Ethylene	618	33	17	—	11	—	0	0	657
Propane/Propylene	514	544	156	—	117	—	0	22	1,075
Normal Butane/Butylene	149	143	29	—	97	—	116	16	92
Isobutane/Isobutylene	181	20	19	—	5	—	123	0	92
Other Liquids	**188**	**—**	**516**	**—**	**26**	**—**	**804**	**31**	**-157**
Other Hydrocarbons/Oxygenates	311	—	59	—	(s)	—	355	15	0
Unfinished Oils	—	—	262	—	30	—	391	0	-160
Motor Gasoline Blend. Comp.	-123	—	194	—	-5	—	61	15	0
Aviation Gasoline Blend. Comp.	—	—	0	—	(s)	—	-3	0	3
Finished Petroleum Products	**172**	**16,257**	**1,055**	**—**	**78**	**—**	**—**	**761**	**16,644**
Finished Motor Gasoline	172	7,804	299	—	11	—	—	122	8,141
Reformulated	—	2,475	158	—	(s)	—	—	3	2,629
Oxygenated	488	73	0	—	1	—	—	2	558
Other	-316	5,256	141	—	10	—	—	117	4,954
Finished Aviation Gasoline	—	20	(s)	—	-1	—	—	0	21
Jet Fuel	—	1,510	76	—	11	—	—	27	1,548
Naphtha-Type	—	1	0	—	(s)	—	—	2	-1
Kerosene-Type	—	1,510	76	—	11	—	—	25	1,549
Kerosene	—	72	1	—	-4	—	—	1	76
Distillate Fuel Oil	—	3,445	192	—	47	—	—	139	3,451
0.05 percent sulfur and under	—	2,210	103	—	17	—	—	38	2,258
Greater than 0.05 percent sulfur	—	1,235	89	—	30	—	—	101	1,193
Residual Fuel Oil	—	771	208	—	5	—	—	145	828
Naphtha For Petro. Feed. Use	—	236	62	—	(s)	—	—	0	298
Other Oils For Petro. Feed. Use	—	226	173	—	2	—	—	0	397
Special Naphthas	—	68	7	—	(s)	—	—	18	58
Lubricants	—	183	9	—	-4	—	—	25	171
Waxes	—	24	1	—	(s)	—	—	3	23
Petroleum Coke	—	703	1	—	5	—	—	273	426
Asphalt and Road Oil	—	480	26	—	7	—	—	9	490
Still Gas	—	662	0	—	0	—	—	0	662
Miscellaneous Products	—	52	(s)	—	(s)	—	—	(s)	53
Total	**8,536**	**16,996**	**10,402**	**203**	**452**	**(s)**	**16,143**	**972**	**18,569**

[a] Unaccounted for crude oil represents the difference between the supply and disposition of crude oil. Preliminary estimates of crude oil imports at the National level have historically understated final values by approximately 50,000 barrels per day. This causes the preliminary values of unaccounted for crude oil to overstate the final values by the same amount.

[b] A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks.

[c] Products supplied is equal to field production, plus refinery production, plus imports, plus unaccounted for crude oil, minus stock change, minus crude losses, minus refinery inputs, minus exports.

(s) = Less than 500 barrels per day.

E = Estimated.

LRG = Liquefied Refinery Gas.

— = Not Applicable.

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

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-811, "Monthly Bulk Terminal Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movement Report," and EIA-819M, "Monthly Oxygenate Telephone Report". Domestic crude oil production estimates based on historical statistics from State conservation agencies and the Minerals Management Service of the U.S. Department of the Interior. Export data from the Bureau of the Census and Form EIA-810, "Monthly Refinery Report."

Table 6. PAD District I—Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, August 1998

(Thousand Barrels)

Commodity	Supply					Disposition					Ending Stocks
	Field Production	Refinery Production	Imports by PAD District of Entry[a]	Unaccounted For Crude Oil[b]	Net Receipts	Stock Change[c]	Crude Losses	Refinery Inputs	Exports	Products Supplied[d]	
Crude Oil	[E] **849**	**—**	**46,075**	**1,923**	**-201**	**-2,115**	**0**	**50,726**	**34**	**0**	**14,486**
Natural Gas Liquids and LRGs	**833**	**1,956**	**758**	**—**	**2,882**	**1,180**	**—**	**31**	**54**	**5,164**	**8,456**
Pentanes Plus	97	—	0	—	0	14	—	0	1	82	32
Liquefied Petroleum Gases	736	1,956	758	—	2,882	1,166	—	31	53	5,082	8,424
Ethane/Ethylene	250	0	0	—	0	0	—	0	0	250	0
Propane/Propylene	325	1,626	749	—	2,773	542	—	0	25	4,906	5,213
Normal Butane/Butylene	120	399	9	—	59	572	—	10	27	-22	2,810
Isobutane/Isobutylene	41	-69	0	—	50	52	—	21	0	-51	401
Other Liquids	**874**	**—**	**5,183**	**—**	**643**	**-1,687**	**—**	**11,112**	**76**	**-2,801**	**19,639**
Other Hydrocarbons/Oxygenates	1,926	—	47	—	0	-239	—	2,136	76	0	2,105
Unfinished Oils	—	—	811	—	2	607	—	3,078	0	-2,872	11,419
Motor Gasoline Blend. Comp.	-1,051	—	4,325	—	641	-2,062	—	5,976	1	0	6,038
Aviation Gasoline Blend. Comp.	—	—	0	—	0	7	—	-78	0	71	77
Finished Petroleum Products	**1,328**	**62,143**	**25,057**	**—**	**86,799**	**1,487**	**—**	**—**	**775**	**173,065**	**162,128**
Finished Motor Gasoline	1,328	31,897	9,628	—	50,626	-2,048	—	—	36	95,491	51,780
Reformulated	—	19,952	4,949	—	9,435	-654	—	—	2	34,988	20,212
Oxygenated	2,766	0	0	—	0	-20	—	—	(s)	2,786	162
Other	-1,438	11,945	4,679	—	41,191	-1,374	—	—	34	57,717	31,406
Finished Aviation Gasoline	—	28	0	—	109	9	—	—	0	128	228
Jet Fuel	—	3,475	1,651	—	12,186	850	—	—	3	16,459	11,091
Naphtha-Type	—	0	0	—	0	0	—	—	1	-1	0
Kerosene-Type	—	3,475	1,651	—	12,186	850	—	—	2	16,460	11,091
Kerosene	—	417	1	—	298	-95	—	—	3	808	3,063
Distillate Fuel Oil	—	13,584	5,058	—	19,917	3,159	—	—	66	35,334	70,703
0.05 percent sulfur and under	—	5,465	3,111	—	13,599	-1,540	—	—	6	23,709	19,831
Greater than 0.05 percent sulfur	—	8,119	1,947	—	6,318	4,699	—	—	60	11,625	50,872
Residual Fuel Oil	—	4,213	7,019	—	2,033	-65	—	—	262	13,068	16,505
Petrochemical Feedstocks[e]	—	516	301	—	110	3	—	—	0	924	504
Special Naphthas	—	53	102	—	78	-18	—	—	28	223	93
Lubricants	—	548	263	—	844	-11	—	—	127	1,539	2,317
Waxes	—	63	24	—	2	10	—	—	24	55	55
Petroleum Coke	—	1,617	0	—	0	-90	—	—	209	1,498	601
Asphalt and Road Oil	—	3,501	1,010	—	596	-219	—	—	14	5,312	5,098
Still Gas	—	2,161	0	—	0	0	—	—	0	2,161	0
Miscellaneous Products	—	70	0	—	0	2	—	—	4	64	90
Total	**3,884**	**64,099**	**77,073**	**1,923**	**90,123**	**-1,135**	**0**	**61,869**	**940**	**175,428**	**204,709**

[a] Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
[b] Unaccounted for crude oil represents the difference between the supply and disposition of crude oil.
[c] A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks.
[d] Products supplied is equal to field production, plus refinery production, plus imports, plus unaccounted for crude oil, plus net receipts, minus stock change, minus crude losses, minus refinery inputs, minus exports.
[e] Includes naphtha less than 401° F endpoint and other oils equal to or greater than 401° F endpoint.
(s) = Less than 500 barrels.
E = Estimated.
LRG = Liquefied Refinery Gas.
— = Not Applicable.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-811, "Monthly Bulk Terminal Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movement Report," and EIA-819M, "Monthly Oxygenate Telephone Report". Domestic crude oil production estimates based on historical statistics from State conservation agencies and the Minerals Management Service of the U.S. Department of the Interior. Export data from the Bureau of the Census and Form EIA-810, "Monthly Refinery Report."

Table 7. PAD District I—Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-August 1998

(Thousand Barrels)

Commodity	Supply					Disposition					Ending Stocks
	Field Production	Refinery Production	Imports by PAD District of Entry[a]	Unaccounted For Crude Oil[b]	Net Receipts	Stock Change[c]	Crude Losses	Refinery Inputs	Exports	Products Supplied[d]	
Crude Oil	E 6,402	—	377,231	8,193	-677	3,512	0	387,277	360	0	14,486
Natural Gas Liquids and LRGs	6,198	12,539	5,933	—	23,879	2,364	—	939	448	44,798	8,456
Pentanes Plus	685	—	0	—	0	20	—	0	12	653	32
Liquefied Petroleum Gases	5,513	12,539	5,933	—	23,879	2,344	—	939	436	44,145	8,424
Ethane/Ethylene	1,881	0	0	—	0	0	—	0	0	1,881	0
Propane/Propylene	2,464	12,743	5,664	—	23,258	908	—	0	237	42,984	5,213
Normal Butane/Butylene	876	643	269	—	335	1,441	—	387	199	96	2,810
Isobutane/Isobutylene	292	-847	0	—	286	-5	—	552	0	-816	401
Other Liquids	40	—	55,172	—	4,333	-3	—	73,634	110	-14,196	19,639
Other Hydrocarbons/Oxygenates	13,789	—	3,793	—	0	-130	—	17,607	105	0	2,105
Unfinished Oils	—	—	6,809	—	91	620	—	21,165	0	-14,885	11,419
Motor Gasoline Blend. Comp.	-13,749	—	44,570	—	4,242	-491	—	35,549	5	0	6,038
Aviation Gasoline Blend. Comp.	—	—	0	—	0	-2	—	-687	0	689	77
Finished Petroleum Products	15,766	464,337	187,958	—	692,722	10,400	—	—	8,434	1,341,949	162,128
Finished Motor Gasoline	15,766	236,725	68,623	—	400,695	1,184	—	—	524	720,101	51,780
Reformulated	—	154,395	37,037	—	81,202	968	—	—	58	271,608	20,212
Oxygenated	20,169	0	0	—	488	-118	—	—	2	20,773	162
Other	-4,403	82,330	31,586	—	319,005	334	—	—	464	427,720	31,406
Finished Aviation Gasoline	—	47	1	—	584	0	—	—	0	632	228
Jet Fuel	—	23,561	16,720	—	101,667	-862	—	—	687	142,123	11,091
Naphtha-Type	—	0	0	—	0	0	—	—	228	-228	0
Kerosene-Type	—	23,561	16,720	—	101,667	-862	—	—	459	142,351	11,091
Kerosene	—	3,727	206	—	1,052	-1,513	—	—	22	6,476	3,063
Distillate Fuel Oil	—	109,755	44,165	—	169,291	10,666	—	—	1,037	311,508	70,703
0.05 percent sulfur and under	—	39,342	23,960	—	100,128	1,199	—	—	46	162,185	19,831
Greater than 0.05 percent sulfur	—	70,413	20,205	—	69,163	9,467	—	—	992	149,322	50,872
Residual Fuel Oil	—	33,396	47,143	—	9,566	-213	—	—	2,968	87,350	16,505
Petrochemical Feedstocks[e]	—	3,122	2,072	—	347	26	—	—	0	5,515	504
Special Naphthas	—	420	781	—	843	-23	—	—	352	1,715	93
Lubricants	—	4,181	2,046	—	5,578	-420	—	—	1,136	11,089	2,317
Waxes	—	588	209	—	5	-165	—	—	193	774	55
Petroleum Coke	—	12,446	0	—	0	281	—	—	1,371	10,794	601
Asphalt and Road Oil	—	20,384	5,941	—	3,094	1,438	—	—	107	27,874	5,098
Still Gas	—	15,462	0	—	0	0	—	—	0	15,462	0
Miscellaneous Products	—	523	51	—	0	1	—	—	35	538	90
Total	28,406	476,876	626,294	8,193	720,257	16,273	0	461,850	9,352	1,372,551	204,709

[a] Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
[b] Unaccounted for crude oil represents the difference between the supply and disposition of crude oil.
[c] A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks.
[d] Products supplied is equal to field production, plus refinery production, plus imports, plus unaccounted for crude oil, plus net receipts, minus stock change, minus crude losses, minus refinery inputs, minus exports.
[e] Includes naphtha less than 401° F endpoint and other oils equal to or greater than 401° F endpoint.
(s) = Less than 500 barrels.
E = Estimated.
LRG = Liquefied Refinery Gas.
— = Not Applicable.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-811, "Monthly Bulk Terminal Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movement Report," and EIA-819M, "Monthly Oxygenate Telephone Report". Domestic crude oil production estimates based on historical statistics from State conservation agencies and the Minerals Management Service of the U.S. Department of the Interior. Export data from the Bureau of the Census and Form EIA-810, "Monthly Refinery Report."

Table 8. PAD District I—Daily Average Supply and Disposition of Crude Oil and Petroleum Products, August 1998

(Thousand Barrels per Day)

Commodity	Supply					Disposition				
	Field Production	Refinery Production	Imports by PAD District of Entry[a]	Unaccounted For Crude Oil[b]	Net Receipts	Stock Change[c]	Crude Losses	Refinery Inputs	Exports	Products Supplied[d]
Crude Oil	E 27	—	1,486	62	-6	-68	0	1,636	1	0
Natural Gas Liquids and LRGs	27	63	24	—	93	38	—	1	2	167
Pentanes Plus	3	—	0	—	0	(s)	—	0	(s)	3
Liquefied Petroleum Gases	24	63	24	—	93	38	—	1	2	164
Ethane/Ethylene	8	0	0	—	0	0	—	0	0	8
Propane/Propylene	10	52	24	—	89	17	—	0	1	158
Normal Butane/Butylene	4	13	(s)	—	2	18	—	(s)	1	-1
Isobutane/Isobutylene	1	-2	0	—	2	2	—	1	0	-2
Other Liquids	28	—	167	—	21	-54	—	358	2	-90
Other Hydrocarbons/Oxygenates	62	—	2	—	0	-8	—	69	2	0
Unfinished Oils	—	—	26	—	(s)	20	—	99	0	-93
Motor Gasoline Blend. Comp.	-34	—	140	—	21	-67	—	193	(s)	0
Aviation Gasoline Blend. Comp.	—	—	0	—	0	(s)	—	-3	0	2
Finished Petroleum Products	43	2,005	808	—	2,800	48	—	—	25	5,583
Finished Motor Gasoline	43	1,029	311	—	1,633	-66	—	—	1	3,080
Reformulated	—	644	160	—	304	-21	—	—	(s)	1,129
Oxygenated	89	0	0	—	0	-1	—	—	(s)	90
Other	-46	385	151	—	1,329	-44	—	—	1	1,862
Finished Aviation Gasoline	—	1	0	—	4	(s)	—	—	0	4
Jet Fuel	—	112	53	—	393	27	—	—	(s)	531
Naphtha-Type	—	0	0	—	0	0	—	—	(s)	(s)
Kerosene-Type	—	112	53	—	393	27	—	—	(s)	531
Kerosene	—	13	(s)	—	10	-3	—	—	(s)	26
Distillate Fuel Oil	—	438	163	—	642	102	—	—	2	1,140
0.05 percent sulfur and under	—	176	100	—	439	-50	—	—	(s)	765
Greater than 0.05 percent sulfur	—	262	63	—	204	152	—	—	2	375
Residual Fuel Oil	—	136	226	—	66	-2	—	—	8	422
Petrochemical Feedstocks[e]	—	17	10	—	4	(s)	—	—	0	30
Special Naphthas	—	2	3	—	3	-1	—	—	1	7
Lubricants	—	18	8	—	27	(s)	—	—	4	50
Waxes	—	2	1	—	(s)	(s)	—	—	1	2
Petroleum Coke	—	52	0	—	0	-3	—	—	7	48
Asphalt and Road Oil	—	113	33	—	19	-7	—	—	(s)	171
Still Gas	—	70	0	—	0	0	—	—	0	70
Miscellaneous Products	—	2	0	—	0	(s)	—	—	(s)	2
Total	125	2,068	2,486	62	2,907	-37	0	1,996	30	5,659

[a] Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
[b] Unaccounted for crude oil represents the difference between the supply and disposition of crude oil.
[c] A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks.
[d] Products supplied is equal to field production, plus refinery production, plus imports, plus unaccounted for crude oil, plus net receipts, minus stock change, minus crude losses, minus refinery inputs, minus exports.
[e] Includes naphtha less than 401° F endpoint and other oils equal to or greater than 401° F endpoint.
(s) = Less than 500 barrels per day.
E = Estimated.
LRG = Liquefied Refinery Gas.
— = Not Applicable.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-811, "Monthly Bulk Terminal Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movement Report," and EIA-819M, "Monthly Oxygenate Telephone Report". Domestic crude oil production estimates based on historical statistics from State conservation agencies and the Minerals Management Service of the U.S. Department of the Interior. Export data from the Bureau of the Census and Form EIA-810, "Monthly Refinery Report."

Table 9. PAD District I—Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-August 1998
(Thousand Barrels per Day)

Commodity	Supply					Disposition				
	Field Production	Refinery Production	Imports by PAD District of Entry[a]	Unaccounted For Crude Oil[b]	Net Receipts	Stock Change[c]	Crude Losses	Refinery Inputs	Exports	Products Supplied[d]
Crude Oil	[E] **26**	**—**	**1,552**	**34**	**-3**	**14**	**0**	**1,594**	**1**	**0**
Natural Gas Liquids and LRGs	**26**	**52**	**24**	**—**	**98**	**10**	**—**	**4**	**2**	**184**
Pentanes Plus	3	—	0	—	0	(s)	—	0	(s)	3
Liquefied Petroleum Gases	23	52	24	—	98	10	—	4	2	182
Ethane/Ethylene	8	0	0	—	0	0	—	0	0	8
Propane/Propylene	10	52	23	—	96	4	—	0	1	177
Normal Butane/Butylene	4	3	1	—	1	6	—	2	1	(s)
Isobutane/Isobutylene	1	-3	0	—	1	(s)	—	2	0	-3
Other Liquids	**(s)**	**—**	**227**	**—**	**18**	**(s)**	**—**	**303**	**(s)**	**-58**
Other Hydrocarbons/Oxygenates	57	—	16	—	0	-1	—	72	(s)	0
Unfinished Oils	—	—	28	—	(s)	3	—	87	0	-61
Motor Gasoline Blend. Comp.	-57	—	183	—	17	-2	—	146	(s)	0
Aviation Gasoline Blend. Comp.	—	—	0	—	0	(s)	—	-3	0	3
Finished Petroleum Products	**65**	**1,911**	**773**	**—**	**2,851**	**43**	**—**	**—**	**35**	**5,522**
Finished Motor Gasoline	65	974	282	—	1,649	5	—	—	2	2,963
Reformulated	—	635	152	—	334	4	—	—	(s)	1,118
Oxygenated	83	0	0	—	2	(s)	—	—	(s)	85
Other	-18	339	130	—	1,313	1	—	—	2	1,760
Finished Aviation Gasoline	—	(s)	(s)	—	2	0	—	—	0	3
Jet Fuel	—	97	69	—	418	-4	—	—	3	585
Naphtha-Type	—	0	0	—	0	0	—	—	1	-1
Kerosene-Type	—	97	69	—	418	-4	—	—	2	586
Kerosene	—	15	1	—	4	-6	—	—	(s)	27
Distillate Fuel Oil	—	452	182	—	697	44	—	—	4	1,282
0.05 percent sulfur and under	—	162	99	—	412	5	—	—	(s)	667
Greater than 0.05 percent sulfur	—	290	83	—	285	39	—	—	4	614
Residual Fuel Oil	—	137	194	—	39	-1	—	—	12	359
Petrochemical Feedstocks[e]	—	13	9	—	1	(s)	—	—	0	23
Special Naphthas	—	2	3	—	3	(s)	—	—	1	7
Lubricants	—	17	8	—	23	-2	—	—	5	46
Waxes	—	2	1	—	(s)	-1	—	—	1	3
Petroleum Coke	—	51	0	—	0	1	—	—	6	44
Asphalt and Road Oil	—	84	24	—	13	6	—	—	(s)	115
Still Gas	—	64	0	—	0	0	—	—	0	64
Miscellaneous Products	—	2	(s)	—	0	(s)	—	—	(s)	2
Total	**117**	**1,962**	**2,577**	**34**	**2,964**	**67**	**0**	**1,901**	**38**	**5,648**

[a] Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
[b] Unaccounted for crude oil represents the difference between the supply and disposition of crude oil.
[c] A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks.
[d] Products supplied is equal to field production, plus refinery production, plus imports, plus unaccounted for crude oil, plus net receipts, minus stock change, minus crude losses, minus refinery inputs, minus exports.
[e] Includes naphtha less than 401° F endpoint and other oils equal to or greater than 401° F endpoint.
(s) = Less than 500 barrels per day.
E = Estimated.
LRG = Liquefied Refinery Gas.
— = Not Applicable.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-811, "Monthly Bulk Terminal Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movement Report," and EIA-819M, "Monthly Oxygenate Telephone Report". Domestic crude oil production estimates based on historical statistics from State conservation agencies and the Minerals Management Service of the U.S. Department of the Interior. Export data from the Bureau of the Census and Form EIA-810, "Monthly Refinery Report."

Table 10. PAD District II—Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, August 1998

(Thousand Barrels)

Commodity	Supply					Disposition					Ending Stocks
	Field Production	Refinery Production	Imports by PAD District of Entry[a]	Unaccounted For Crude Oil[b]	Net Receipts	Stock Change[c]	Crude Losses	Refinery Inputs	Exports	Products Supplied[d]	
Crude Oil	E **16,067**	**—**	**25,327**	**-4,566**	**66,530**	**-3,888**	**0**	**106,497**	**749**	**0**	**72,709**
Natural Gas Liquids and LRGs	**8,906**	**4,680**	**1,868**	**—**	**-282**	**4,486**	**—**	**2,239**	**102**	**8,345**	**51,246**
Pentanes Plus	1,290	—	30	—	818	233	—	813	29	1,063	2,589
Liquefied Petroleum Gases	7,616	4,680	1,838	—	-1,100	4,253	—	1,426	73	7,282	48,657
Ethane/Ethylene	2,909	0	4	—	-1,837	257	—	0	0	819	5,145
Propane/Propylene	3,039	3,459	1,448	—	688	2,773	—	0	25	5,836	31,115
Normal Butane/Butylene	1,032	1,055	120	—	-301	735	—	353	49	769	9,674
Isobutane/Isobutylene	636	166	266	—	350	488	—	1,073	0	-143	2,723
Other Liquids	**-2,200**	**—**	**1**	**—**	**2,593**	**-90**	**—**	**1,867**	**1**	**-1,384**	**27,924**
Other Hydrocarbons/Oxygenates	1,279	—	0	—	0	64	—	1,214	1	0	1,887
Unfinished Oils	—	—	1	—	115	-824	—	2,325	0	-1,385	14,486
Motor Gasoline Blend. Comp.	-3,479	—	0	—	2,478	652	—	-1,653	0	0	11,518
Aviation Gasoline Blend. Comp.	—	—	0	—	0	18	—	-19	0	1	33
Finished Petroleum Products	**4,423**	**111,029**	**358**	**—**	**29,840**	**555**	**—**	**—**	**588**	**144,507**	**109,113**
Finished Motor Gasoline	4,423	55,876	64	—	16,871	-129	—	—	117	77,245	43,701
Reformulated	—	9,967	0	—	480	-40	—	—	(s)	10,487	980
Oxygenated	9,437	1,644	0	—	0	6	—	—	0	11,075	320
Other	-5,014	44,265	64	—	16,391	-95	—	—	117	55,684	42,401
Finished Aviation Gasoline	—	171	1	—	128	-9	—	—	0	309	304
Jet Fuel	—	6,843	0	—	4,274	816	—	—	(s)	10,301	8,807
Naphtha-Type	—	0	0	—	0	0	—	—	(s)	(s)	0
Kerosene-Type	—	6,843	0	—	4,274	816	—	—	0	10,301	8,807
Kerosene	—	484	0	—	18	239	—	—	(s)	263	1,028
Distillate Fuel Oil	—	27,031	99	—	7,294	1,740	—	—	6	32,678	34,805
0.05 percent sulfur and under	—	18,609	75	—	6,198	1,763	—	—	0	23,119	24,416
Greater than 0.05 percent sulfur	—	8,422	24	—	1,096	-23	—	—	6	9,559	10,389
Residual Fuel Oil	—	1,897	75	—	8	157	—	—	1	1,822	2,660
Petrochemical Feedstocks[e]	—	1,343	35	—	403	-17	—	—	0	1,798	259
Special Naphthas	—	814	34	—	118	71	—	—	8	887	344
Lubricants	—	734	26	—	292	61	—	—	65	926	1,455
Waxes	—	101	10	—	0	3	—	—	29	79	180
Petroleum Coke	—	4,069	0	—	0	-240	—	—	244	4,065	3,650
Asphalt and Road Oil	—	6,970	14	—	434	-2,228	—	—	118	9,528	11,639
Still Gas	—	4,404	0	—	0	0	—	—	0	4,404	0
Miscellaneous Products	—	292	0	—	0	91	—	—	(s)	201	281
Total	**27,196**	**115,709**	**27,554**	**-4,566**	**98,681**	**1,063**	**0**	**110,603**	**1,440**	**151,468**	**260,992**

[a] Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
[b] Unaccounted for crude oil represents the difference between the supply and disposition of crude oil.
[c] A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks.
[d] Products supplied is equal to field production, plus refinery production, plus imports, plus unaccounted for crude oil, plus net receipts, minus stock change, minus crude losses, minus refinery inputs, minus exports.
[e] Includes naphtha less than 401° F endpoint and other oils equal to or greater than 401° F endpoint.
(s) = Less than 500 barrels.
E = Estimated.
LRG = Liquefied Refinery Gas.
— = Not Applicable.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-811, "Monthly Bulk Terminal Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movement Report," and EIA-819M, "Monthly Oxygenate Telephone Report". Domestic crude oil production estimates based on historical statistics from State conservation agencies and the Minerals Management Service of the U.S. Department of the Interior. Export data from the Bureau of the Census and Form EIA-810, "Monthly Refinery Report."

Table 11. PAD District II—Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-August 1998

(Thousand Barrels)

Commodity	Supply					Disposition					
	Field Production	Refinery Production	Imports by PAD District of Entry[a]	Unaccounted For Crude Oil[b]	Net Receipts	Stock Change[c]	Crude Losses	Refinery Inputs	Exports	Products Supplied[d]	Ending Stocks
Crude Oil	E **131,476**	**—**	**211,576**	**-4,256**	**490,928**	**-922**	**0**	**816,678**	**13,967**	**0**	**72,709**
Natural Gas Liquids and LRGs	**69,942**	**32,694**	**20,605**	**—**	**305**	**21,717**	**—**	**21,331**	**4,826**	**75,672**	**51,246**
Pentanes Plus	9,528	—	250	—	5,559	819	—	7,688	2,770	4,060	2,589
Liquefied Petroleum Gases	60,414	32,694	20,355	—	-5,254	20,898	—	13,643	2,056	71,612	48,657
Ethane/Ethylene	23,212	0	86	—	-14,641	2,167	—	0	0	6,490	5,145
Propane/Propylene	24,418	27,285	16,853	—	6,919	13,126	—	0	663	61,686	31,115
Normal Butane/Butylene	8,510	4,375	1,531	—	-396	4,873	—	6,280	1,393	1,474	9,674
Isobutane/Isobutylene	4,274	1,034	1,885	—	2,864	732	—	7,363	0	1,962	2,723
Other Liquids	**-10,634**	**—**	**14**	**—**	**16,265**	**3,128**	**—**	**8,446**	**11**	**-5,940**	**27,924**
Other Hydrocarbons/Oxygenates	9,695	—	0	—	0	-27	—	9,711	11	0	1,887
Unfinished Oils	—	—	8	—	-410	2,102	—	3,442	0	-5,946	14,486
Motor Gasoline Blend. Comp.	-20,329	—	6	—	16,675	1,056	—	-4,704	(s)	0	11,518
Aviation Gasoline Blend. Comp.	—	—	0	—	0	-3	—	-3	0	6	33
Finished Petroleum Products	**27,210**	**851,344**	**3,152**	**—**	**201,166**	**5,605**	**—**	**—**	**4,887**	**1,072,380**	**109,113**
Finished Motor Gasoline	27,210	436,953	1,110	—	119,756	1,793	—	—	583	582,653	43,701
Reformulated	—	65,989	0	—	4,027	-215	—	—	28	70,203	980
Oxygenated	68,811	13,901	0	—	-549	-217	—	—	180	82,200	320
Other	-41,601	357,063	1,110	—	116,278	2,225	—	—	375	430,249	42,401
Finished Aviation Gasoline	—	1,248	19	—	542	-69	—	—	0	1,878	304
Jet Fuel	—	51,316	0	—	28,886	-131	—	—	380	79,953	8,807
Naphtha-Type	—	28	0	—	0	0	—	—	(s)	28	0
Kerosene-Type	—	51,288	0	—	28,886	-131	—	—	379	79,926	8,807
Kerosene	—	3,512	0	—	-22	-551	—	—	13	4,028	1,028
Distillate Fuel Oil	—	208,861	800	—	50,022	3,430	—	—	280	255,973	34,805
0.05 percent sulfur and under	—	146,303	571	—	42,487	2,096	—	—	157	187,108	24,416
Greater than 0.05 percent sulfur	—	62,558	229	—	7,535	1,334	—	—	124	68,864	10,389
Residual Fuel Oil	—	16,662	247	—	-3,761	85	—	—	108	12,955	2,660
Petrochemical Feedstocks[e]	—	9,734	274	—	1,165	-97	—	—	0	11,270	259
Special Naphthas	—	6,100	300	—	1,078	-134	—	—	97	7,515	344
Lubricants	—	5,833	188	—	1,513	-280	—	—	458	7,356	1,455
Waxes	—	994	91	—	0	36	—	—	179	870	180
Petroleum Coke	—	33,484	0	—	0	436	—	—	1,181	31,867	3,650
Asphalt and Road Oil	—	42,080	115	—	1,987	1,167	—	—	1,605	41,410	11,639
Still Gas	—	32,287	0	—	0	0	—	—	0	32,287	0
Miscellaneous Products	—	2,280	8	—	0	-80	—	—	3	2,365	281
Total	**217,994**	**884,038**	**235,347**	**-4,256**	**708,664**	**29,528**	**0**	**846,455**	**23,692**	**1,142,112**	**260,992**

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[b] Unaccounted for crude oil represents the difference between the supply and disposition of crude oil.
[c] A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks.
[d] Products supplied is equal to field production, plus refinery production, plus imports, plus unaccounted for crude oil, plus net receipts, minus stock change, minus crude losses, minus refinery inputs, minus exports.
[e] Includes naphtha less than 401° F endpoint and other oils equal to or greater than 401° F endpoint.
(s) = Less than 500 barrels.
E = Estimated.
LRG = Liquefied Refinery Gas.
— = Not Applicable.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-811, "Monthly Bulk Terminal Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movement Report," and EIA-819M, "Monthly Oxygenate Telephone Report". Domestic crude oil production estimates based on historical statistics from State conservation agencies and the Minerals Management Service of the U.S. Department of the Interior. Export data from the Bureau of the Census and Form EIA-810, "Monthly Refinery Report."

Table 12. PAD District II—Daily Average Supply and Disposition of Crude Oil and Petroleum Products, August 1998

(Thousand Barrels per Day)

Commodity	Supply					Disposition				
	Field Production	Refinery Production	Imports by PAD District of Entry[a]	Unaccounted For Crude Oil[b]	Net Receipts	Stock Change[c]	Crude Losses	Refinery Inputs	Exports	Products Supplied[d]
Crude Oil	E 518	—	817	-147	2,146	-125	0	3,435	24	0
Natural Gas Liquids and LRGs	287	151	60	—	-9	145	—	72	3	269
Pentanes Plus	42	—	1	—	26	8	—	26	1	34
Liquefied Petroleum Gases	246	151	59	—	-35	137	—	46	2	235
Ethane/Ethylene	94	0	(s)	—	-59	8	—	0	0	26
Propane/Propylene	98	112	47	—	22	89	—	0	1	188
Normal Butane/Butylene	33	34	4	—	-10	24	—	11	2	25
Isobutane/Isobutylene	21	5	9	—	11	16	—	35	0	-5
Other Liquids	-71	—	(s)	—	84	-3	—	60	(s)	-45
Other Hydrocarbons/Oxygenates	41	—	0	—	0	2	—	39	(s)	0
Unfinished Oils	—	—	(s)	—	4	-27	—	75	0	-45
Motor Gasoline Blend. Comp.	-112	—	0	—	80	21	—	-53	0	0
Aviation Gasoline Blend. Comp.	—	—	0	—	0	1	—	-1	0	(s)
Finished Petroleum Products	143	3,582	12	—	963	18	—	—	19	4,662
Finished Motor Gasoline	143	1,802	2	—	544	-4	—	—	4	2,492
Reformulated	—	322	0	—	15	-1	—	—	(s)	338
Oxygenated	304	53	0	—	0	(s)	—	—	0	357
Other	-162	1,428	2	—	529	-3	—	—	4	1,796
Finished Aviation Gasoline	—	6	(s)	—	4	(s)	—	—	0	10
Jet Fuel	—	221	0	—	138	26	—	—	(s)	332
Naphtha-Type	—	0	0	—	0	0	—	—	(s)	(s)
Kerosene-Type	—	221	0	—	138	26	—	—	0	332
Kerosene	—	16	0	—	1	8	—	—	(s)	8
Distillate Fuel Oil	—	872	3	—	235	56	—	—	(s)	1,054
0.05 percent sulfur and under	—	600	2	—	200	57	—	—	0	746
Greater than 0.05 percent sulfur	—	272	1	—	35	-1	—	—	(s)	308
Residual Fuel Oil	—	61	2	—	(s)	5	—	—	(s)	59
Petrochemical Feedstocks[e]	—	43	1	—	13	-1	—	—	0	58
Special Naphthas	—	26	1	—	4	2	—	—	(s)	29
Lubricants	—	24	1	—	9	2	—	—	2	30
Waxes	—	3	(s)	—	0	(s)	—	—	1	3
Petroleum Coke	—	131	0	—	0	-8	—	—	8	131
Asphalt and Road Oil	—	225	(s)	—	14	-72	—	—	4	307
Still Gas	—	142	0	—	0	0	—	—	0	142
Miscellaneous Products	—	9	0	—	0	3	—	—	(s)	6
Total	877	3,733	889	-147	3,183	34	0	3,568	46	4,886

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[b] Unaccounted for crude oil represents the difference between the supply and disposition of crude oil.
[c] A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks.
[d] Products supplied is equal to field production, plus refinery production, plus imports, plus unaccounted for crude oil, plus net receipts, minus stock change, minus crude losses, minus refinery inputs, minus exports.
[e] Includes naphtha less than 401° F endpoint and other oils equal to or greater than 401° F endpoint.
(s) = Less than 500 barrels per day.
E = Estimated.
LRG = Liquefied Refinery Gas.
— = Not Applicable.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-811, "Monthly Bulk Terminal Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movement Report," and EIA-819M, "Monthly Oxygenate Telephone Report". Domestic crude oil production estimates based on historical statistics from State conservation agencies and the Minerals Management Service of the U.S. Department of the Interior. Export data from the Bureau of the Census and Form EIA-810, "Monthly Refinery Report."

Table 13. PAD District II—Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-August 1998
(Thousand Barrels per Day)

Commodity	Supply					Disposition				
	Field Production	Refinery Production	Imports by PAD District of Entry[a]	Unaccounted For Crude Oil[b]	Net Receipts	Stock Change[c]	Crude Losses	Refinery Inputs	Exports	Products Supplied[d]
Crude Oil	E 541	—	871	-18	2,020	-4	0	3,361	57	0
Natural Gas Liquids and LRGs	288	135	85	—	1	89	—	88	20	311
Pentanes Plus	39	—	1	—	23	3	—	32	11	17
Liquefied Petroleum Gases	249	135	84	—	-22	86	—	56	8	295
Ethane/Ethylene	96	0	(s)	—	-60	9	—	0	0	27
Propane/Propylene	100	112	69	—	28	54	—	0	3	254
Normal Butane/Butylene	35	18	6	—	-2	20	—	26	6	6
Isobutane/Isobutylene	18	4	8	—	12	3	—	30	0	8
Other Liquids	-44	—	(s)	—	67	13	—	35	(s)	-24
Other Hydrocarbons/Oxygenates	40	—	0	—	0	(s)	—	40	(s)	0
Unfinished Oils	—	—	(s)	—	-2	9	—	14	0	-24
Motor Gasoline Blend. Comp.	-84	—	(s)	—	69	4	—	-19	(s)	0
Aviation Gasoline Blend. Comp.	—	—	0	—	0	(s)	—	(s)	0	(s)
Finished Petroleum Products	112	3,503	13	—	828	23	—	—	20	4,413
Finished Motor Gasoline	112	1,798	5	—	493	7	—	—	2	2,398
Reformulated	—	272	0	—	17	-1	—	—	(s)	289
Oxygenated	283	57	0	—	-2	-1	—	—	1	338
Other	-171	1,469	5	—	479	9	—	—	2	1,771
Finished Aviation Gasoline	—	5	(s)	—	2	(s)	—	—	0	8
Jet Fuel	—	211	0	—	119	-1	—	—	2	329
Naphtha-Type	—	(s)	0	—	0	0	—	—	(s)	(s)
Kerosene-Type	—	211	0	—	119	-1	—	—	2	329
Kerosene	—	14	0	—	(s)	-2	—	—	(s)	17
Distillate Fuel Oil	—	860	3	—	206	14	—	—	1	1,053
0.05 percent sulfur and under	—	602	2	—	175	9	—	—	1	770
Greater than 0.05 percent sulfur	—	257	1	—	31	5	—	—	1	283
Residual Fuel Oil	—	69	1	—	-15	(s)	—	—	(s)	53
Petrochemical Feedstocks[e]	—	40	1	—	5	(s)	—	—	0	46
Special Naphthas	—	25	1	—	4	-1	—	—	(s)	31
Lubricants	—	24	1	—	6	-1	—	—	2	30
Waxes	—	4	(s)	—	0	(s)	—	—	1	4
Petroleum Coke	—	138	0	—	0	2	—	—	5	131
Asphalt and Road Oil	—	173	(s)	—	8	5	—	—	7	170
Still Gas	—	133	0	—	0	0	—	—	0	133
Miscellaneous Products	—	9	(s)	—	0	(s)	—	—	(s)	10
Total	897	3,638	969	-18	2,916	122	0	3,483	97	4,700

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[b] Unaccounted for crude oil represents the difference between the supply and disposition of crude oil.
[c] A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks.
[d] Products supplied is equal to field production, plus refinery production, plus imports, plus unaccounted for crude oil, plus net receipts, minus stock change, minus crude losses, minus refinery inputs, minus exports.
[e] Includes naphtha less than 401° F endpoint and other oils equal to or greater than 401° F endpoint.
(s) = Less than 500 barrels per day.
E = Estimated.
LRG = Liquefied Refinery Gas.
— = Not Applicable.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-811, "Monthly Bulk Terminal Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movement Report," and EIA-819M, "Monthly Oxygenate Telephone Report". Domestic crude oil production estimates based on historical statistics from State conservation agencies and the Minerals Management Service of the U.S. Department of the Interior. Export data from the Bureau of the Census and Form EIA-810, "Monthly Refinery Report."

Table 14. PAD District III—Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, August 1998

(Thousand Barrels)

Commodity	Supply					Disposition					Ending Stocks
	Field Production	Refinery Production	Imports by PAD District of Entry[a]	Unaccounted For Crude Oil[b]	Net Receipts	Stock Change[c]	Crude Losses	Refinery Inputs	Exports	Products Supplied[d]	
Crude Oil	E **103,417**	**—**	**187,691**	**381**	**-62,851**	**-2,477**	**0**	**231,114**	**2**	**0**	**737,359**
Natural Gas Liquids and LRGs	**36,581**	**15,149**	**4,600**	**—**	**1,351**	**7,476**	**—**	**5,469**	**396**	**44,340**	**86,734**
Pentanes Plus	6,346	—	1,252	—	-364	950	—	2,150	0	4,134	6,381
Liquefied Petroleum Gases	30,235	15,149	3,348	—	1,715	6,526	—	3,319	396	40,206	80,353
Ethane/Ethylene	13,521	1,179	434	—	3,242	702	—	0	0	17,674	16,129
Propane/Propylene	10,300	10,038	2,551	—	-2,155	1,703	—	0	336	18,695	32,805
Normal Butane/Butylene	2,271	3,590	224	—	728	4,172	—	1,052	59	1,530	25,907
Isobutane/Isobutylene	4,143	342	139	—	-100	-51	—	2,267	0	2,308	5,512
Other Liquids	**5,234**	**—**	**5,825**	**—**	**-3,236**	**1,780**	**—**	**7,107**	**1,768**	**-2,832**	**68,614**
Other Hydrocarbons/Oxygenates	3,640	—	0	—	0	-702	—	3,391	951	0	4,315
Unfinished Oils	—	—	5,704	—	-117	1,640	—	6,778	0	-2,831	48,487
Motor Gasoline Blend. Comp.	1,594	—	121	—	-3,119	837	—	-3,058	817	0	15,781
Aviation Gasoline Blend. Comp.	—	—	0	—	0	5	—	-4	0	-1	31
Finished Petroleum Products	**-1,529**	**243,685**	**5,803**	**—**	**-122,502**	**365**	**—**	**—**	**12,497**	**112,595**	**135,232**
Finished Motor Gasoline	-1,529	111,191	237	—	-70,592	-741	—	—	3,706	36,342	47,264
Reformulated	—	17,556	237	—	-9,915	-1,450	—	—	220	9,108	8,683
Oxygenated	651	55	0	—	-554	-19	—	—	0	171	35
Other	-2,180	93,580	0	—	-60,123	728	—	—	3,487	27,063	38,546
Finished Aviation Gasoline	—	437	0	—	-252	-60	—	—	0	245	386
Jet Fuel	—	25,333	0	—	-18,205	2,139	—	—	74	4,915	17,449
Naphtha-Type	—	1	0	—	0	0	—	—	28	-27	1
Kerosene-Type	—	25,332	0	—	-18,205	2,139	—	—	46	4,942	17,448
Kerosene	—	1,712	0	—	-316	100	—	—	(s)	1,296	1,994
Distillate Fuel Oil	—	48,279	0	—	-28,310	-2,622	—	—	3,483	19,108	31,931
0.05 percent sulfur and under	—	31,178	0	—	-20,761	-2,549	—	—	1,175	11,791	18,815
Greater than 0.05 percent sulfur	—	17,101	0	—	-7,549	-73	—	—	2,308	7,317	13,116
Residual Fuel Oil	—	10,921	0	—	-2,041	518	—	—	2,009	6,353	14,898
Petrochemical Feedstocks[e]	—	12,685	5,478	—	-513	49	—	—	0	17,601	3,277
Special Naphthas	—	1,277	70	—	-196	122	—	—	14	1,015	1,676
Lubricants	—	4,088	11	—	-1,045	202	—	—	431	2,421	6,925
Waxes	—	480	2	—	-2	62	—	—	47	371	559
Petroleum Coke	—	11,318	0	—	0	591	—	—	2,705	8,022	3,742
Asphalt and Road Oil	—	4,875	0	—	-1,030	-139	—	—	27	3,957	3,855
Still Gas	—	10,018	0	—	0	0	—	—	0	10,018	0
Miscellaneous Products	—	1,071	5	—	0	144	—	—	1	931	1,276
Total	**143,703**	**258,834**	**203,919**	**381**	**-187,238**	**7,144**	**0**	**243,690**	**14,662**	**154,103**	**1,027,939**

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[b] Unaccounted for crude oil represents the difference between the supply and disposition of crude oil.
[c] A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks.
[d] Products supplied is equal to field production, plus refinery production, plus imports, plus unaccounted for crude oil, plus net receipts, minus stock change, minus crude losses, minus refinery inputs, minus exports.
[e] Includes naphtha less than 401° F endpoint and other oils equal to or greater than 401° F endpoint.
(s) = Less than 500 barrels.
E = Estimated.
LRG = Liquefied Refinery Gas.
— = Not Applicable.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-811, "Monthly Bulk Terminal Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movement Report," and EIA-819M, "Monthly Oxygenate Telephone Report". Domestic crude oil production estimates based on historical statistics from State conservation agencies and the Minerals Management Service of the U.S. Department of the Interior. Export data from the Bureau of the Census and Form EIA-810, "Monthly Refinery Report."

Table 15. PAD District III—Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-August 1998

(Thousand Barrels)

Commodity	Supply					Disposition					Ending Stocks
	Field Production	Refinery Production	Imports by PAD District of Entry[a]	Unaccounted For Crude Oil[b]	Net Receipts	Stock Change[c]	Crude Losses	Refinery Inputs	Exports	Products Supplied[d]	
Crude Oil	E 819,769	—	1,332,602	28,185	-446,729	27,313	1	1,706,511	3	0	737,359
Natural Gas Liquids and LRGs	297,410	113,304	30,915	—	6,826	33,424	—	47,447	3,385	364,199	86,734
Pentanes Plus	47,803	—	5,294	—	-2,161	2,703	—	17,924	0	30,309	6,381
Liquefied Petroleum Gases	249,607	113,304	25,621	—	8,987	30,721	—	29,523	3,385	333,890	80,353
Ethane/Ethylene	114,978	7,990	3,991	—	26,550	413	—	0	0	153,096	16,129
Propane/Propylene	83,539	78,506	14,296	—	-20,423	14,006	—	0	2,724	139,188	32,805
Normal Butane/Butylene	18,505	22,900	4,630	—	3,652	15,893	—	12,435	660	20,699	25,907
Isobutane/Isobutylene	32,585	3,908	2,704	—	-792	409	—	17,088	0	20,908	5,512
Other Liquids	36,777	—	52,899	—	-22,313	5,252	—	76,164	6,887	-20,940	68,614
Other Hydrocarbons/Oxygenates	28,714	—	22	—	0	-721	—	26,170	3,287	0	4,315
Unfinished Oils	—	—	51,310	—	1,025	5,200	—	68,074	0	-20,939	48,487
Motor Gasoline Blend. Comp.	8,063	—	1,567	—	-23,338	768	—	-18,076	3,600	0	15,781
Aviation Gasoline Blend. Comp.	—	—	0	—	0	5	—	-4	0	-1	31
Finished Petroleum Products	-7,588	1,828,343	59,270	—	-930,988	5,945	—	—	117,047	826,045	135,232
Finished Motor Gasoline	-7,588	837,056	1,862	—	-540,381	946	—	—	23,328	266,675	47,264
Reformulated	—	148,747	1,342	—	-86,677	265	—	—	440	62,707	8,683
Oxygenated	4,746	803	0	—	-1,512	35	—	—	1	4,001	35
Other	-12,334	687,506	520	—	-452,192	646	—	—	22,887	199,967	38,546
Finished Aviation Gasoline	—	2,677	0	—	-1,227	-45	—	—	0	1,495	386
Jet Fuel	—	186,448	9	—	-142,159	4,495	—	—	3,035	36,768	17,449
Naphtha-Type	—	5	0	—	0	0	—	—	160	-155	1
Kerosene-Type	—	186,443	9	—	-142,159	4,495	—	—	2,875	36,923	17,448
Kerosene	—	8,676	0	—	-1,018	1,026	—	—	53	6,579	1,994
Distillate Fuel Oil	—	375,484	0	—	-225,233	-403	—	—	23,157	127,497	31,931
0.05 percent sulfur and under	—	237,446	0	—	-147,519	2,049	—	—	6,561	81,317	18,815
Greater than 0.05 percent sulfur	—	138,038	0	—	-77,714	-2,452	—	—	16,596	46,180	13,116
Residual Fuel Oil	—	85,166	1,857	—	-5,805	153	—	—	22,301	58,764	14,898
Petrochemical Feedstocks[e]	—	96,786	54,628	—	-1,512	436	—	—	0	149,466	3,277
Special Naphthas	—	8,846	601	—	-1,921	66	—	—	401	7,059	1,676
Lubricants	—	29,630	47	—	-6,756	-72	—	—	3,711	19,282	6,925
Waxes	—	3,294	24	—	-5	87	—	—	250	2,976	559
Petroleum Coke	—	81,936	0	—	0	-352	—	—	40,529	41,759	3,742
Asphalt and Road Oil	—	30,918	221	—	-5,081	-401	—	—	277	26,182	3,855
Still Gas	—	73,280	0	—	0	0	—	—	0	73,280	0
Miscellaneous Products	—	8,146	21	—	110	9	—	—	4	8,264	1,276
Total	1,146,368	1,941,647	1,475,686	28,185	-1,393,204	71,934	1	1,830,122	127,322	1,169,304	1,027,939

[a] Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
[b] Unaccounted for crude oil represents the difference between the supply and disposition of crude oil.
[c] A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks.
[d] Products supplied is equal to field production, plus refinery production, plus imports, plus unaccounted for crude oil, plus net receipts, minus stock change, minus crude losses, minus refinery inputs, minus exports.
[e] Includes naphtha less than 401° F endpoint and other oils equal to or greater than 401° F endpoint.
(s) = Less than 500 barrels.
E = Estimated.
LRG = Liquefied Refinery Gas.
— = Not Applicable.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-811, "Monthly Bulk Terminal Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movement Report," and EIA-819M, "Monthly Oxygenate Telephone Report". Domestic crude oil production estimates based on historical statistics from State conservation agencies and the Minerals Management Service of the U.S. Department of the Interior. Export data from the Bureau of the Census and Form EIA-810, "Monthly Refinery Report."

Table 16. PAD District III—Daily Average Supply and Disposition of Crude Oil and Petroleum Products, August 1998
(Thousand Barrels per Day)

Commodity	Supply					Disposition				
	Field Production	Refinery Production	Imports by PAD District of Entry[a]	Unaccounted For Crude Oil[b]	Net Receipts	Stock Change[c]	Crude Losses	Refinery Inputs	Exports	Products Supplied[d]
Crude Oil	E 3,336	—	6,055	12	-2,027	-80	0	7,455	(s)	0
Natural Gas Liquids and LRGs	1,180	489	148	—	44	241	—	176	13	1,430
Pentanes Plus	205	—	40	—	-12	31	—	69	0	133
Liquefied Petroleum Gases	975	489	108	—	55	211	—	107	13	1,297
Ethane/Ethylene	436	38	14	—	105	23	—	0	0	570
Propane/Propylene	332	324	82	—	-70	55	—	0	11	603
Normal Butane/Butylene	73	116	7	—	23	135	—	34	2	49
Isobutane/Isobutylene	134	11	4	—	-3	-2	—	73	0	74
Other Liquids	169	—	188	—	-104	57	—	229	57	-91
Other Hydrocarbons/Oxygenates	117	—	0	—	0	-23	—	109	31	0
Unfinished Oils	—	—	184	—	-4	53	—	219	0	-91
Motor Gasoline Blend. Comp.	51	—	4	—	-101	27	—	-99	26	0
Aviation Gasoline Blend. Comp.	—	—	0	—	0	(s)	—	(s)	0	(s)
Finished Petroleum Products	-49	7,861	187	—	-3,952	12	—	—	403	3,632
Finished Motor Gasoline	-49	3,587	8	—	-2,277	-24	—	—	120	1,172
Reformulated	—	566	8	—	-320	-47	—	—	7	294
Oxygenated	21	2	0	—	-18	-1	—	—	0	6
Other	-70	3,019	0	—	-1,939	23	—	—	112	873
Finished Aviation Gasoline	—	14	0	—	-8	-2	—	—	0	8
Jet Fuel	—	817	0	—	-587	69	—	—	2	159
Naphtha-Type	—	(s)	0	—	0	0	—	—	1	-1
Kerosene-Type	—	817	0	—	-587	69	—	—	1	159
Kerosene	—	55	0	—	-10	3	—	—	(s)	42
Distillate Fuel Oil	—	1,557	0	—	-913	-85	—	—	112	616
0.05 percent sulfur and under	—	1,006	0	—	-670	-82	—	—	38	380
Greater than 0.05 percent sulfur	—	552	0	—	-244	-2	—	—	74	236
Residual Fuel Oil	—	352	0	—	-66	17	—	—	65	205
Petrochemical Feedstocks[e]	—	409	177	—	-17	2	—	—	0	568
Special Naphthas	—	41	2	—	-6	4	—	—	(s)	33
Lubricants	—	132	(s)	—	-34	7	—	—	14	78
Waxes	—	15	(s)	—	(s)	2	—	—	2	12
Petroleum Coke	—	365	0	—	0	19	—	—	87	259
Asphalt and Road Oil	—	157	0	—	-33	-4	—	—	1	128
Still Gas	—	323	0	—	0	0	—	—	0	323
Miscellaneous Products	—	35	(s)	—	0	5	—	—	(s)	30
Total	4,636	8,349	6,578	12	-6,040	230	0	7,861	473	4,971

[a] Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
[b] Unaccounted for crude oil represents the difference between the supply and disposition of crude oil.
[c] A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks.
[d] Products supplied is equal to field production, plus refinery production, plus imports, plus unaccounted for crude oil, plus net receipts, minus stock change, minus crude losses, minus refinery inputs, minus exports.
[e] Includes naphtha less than 401° F endpoint and other oils equal to or greater than 401° F endpoint.
(s) = Less than 500 barrels per day.
E = Estimated.
LRG = Liquefied Refinery Gas.
— = Not Applicable.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-811, "Monthly Bulk Terminal Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movement Report," and EIA-819M, "Monthly Oxygenate Telephone Report". Domestic crude oil production estimates based on historical statistics from State conservation agencies and the Minerals Management Service of the U.S. Department of the Interior. Export data from the Bureau of the Census and Form EIA-810, "Monthly Refinery Report."

Table 17. PAD District III—Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-August 1998

(Thousand Barrels per Day)

Commodity	Supply					Disposition				
	Field Production	Refinery Production	Imports by PAD District of Entry[a]	Unaccounted For Crude Oil[b]	Net Receipts	Stock Change[c]	Crude Losses	Refinery Inputs	Exports	Products Supplied[d]
Crude Oil	E **3,374**	**—**	**5,484**	**116**	**-1,838**	**112**	**(s)**	**7,023**	**(s)**	**0**
Natural Gas Liquids and LRGs	**1,224**	**466**	**127**	**—**	**28**	**138**	**—**	**195**	**14**	**1,499**
Pentanes Plus	197	—	22	—	-9	11	—	74	0	125
Liquefied Petroleum Gases	1,027	466	105	—	37	126	—	121	14	1,374
Ethane/Ethylene	473	33	16	—	109	2	—	0	0	630
Propane/Propylene	344	323	59	—	-84	58	—	0	11	573
Normal Butane/Butylene	76	94	19	—	15	65	—	51	3	85
Isobutane/Isobutylene	134	16	11	—	-3	2	—	70	0	86
Other Liquids	**151**	**—**	**218**	**—**	**-92**	**22**	**—**	**313**	**28**	**-86**
Other Hydrocarbons/Oxygenates	118	—	(s)	—	0	-3	—	108	14	0
Unfinished Oils	—	—	211	—	4	21	—	280	0	-86
Motor Gasoline Blend. Comp.	33	—	6	—	-96	3	—	-74	15	0
Aviation Gasoline Blend. Comp.	—	—	0	—	0	(s)	—	(s)	0	(s)
Finished Petroleum Products	**-31**	**7,524**	**244**	**—**	**-3,831**	**24**	**—**	**—**	**482**	**3,399**
Finished Motor Gasoline	-31	3,445	8	—	-2,224	4	—	—	96	1,097
Reformulated	—	612	6	—	-357	1	—	—	2	258
Oxygenated	20	3	0	—	-6	(s)	—	—	(s)	16
Other	-51	2,829	2	—	-1,861	3	—	—	94	823
Finished Aviation Gasoline	—	11	0	—	-5	(s)	—	—	0	6
Jet Fuel	—	767	(s)	—	-585	18	—	—	12	151
Naphtha-Type	—	(s)	0	—	0	0	—	—	1	-1
Kerosene-Type	—	767	(s)	—	-585	18	—	—	12	152
Kerosene	—	36	0	—	-4	4	—	—	(s)	27
Distillate Fuel Oil	—	1,545	0	—	-927	-2	—	—	95	525
0.05 percent sulfur and under	—	977	0	—	-607	8	—	—	27	335
Greater than 0.05 percent sulfur	—	568	0	—	-320	-10	—	—	68	190
Residual Fuel Oil	—	350	8	—	-24	1	—	—	92	242
Petrochemical Feedstocks[e]	—	398	225	—	-6	2	—	—	0	615
Special Naphthas	—	36	2	—	-8	(s)	—	—	2	29
Lubricants	—	122	(s)	—	-28	(s)	—	—	15	79
Waxes	—	14	(s)	—	(s)	(s)	—	—	1	12
Petroleum Coke	—	337	0	—	0	-1	—	—	167	172
Asphalt and Road Oil	—	127	1	—	-21	-2	—	—	1	108
Still Gas	—	302	0	—	0	0	—	—	0	302
Miscellaneous Products	—	34	(s)	—	(s)	(s)	—	—	(s)	34
Total	**4,718**	**7,990**	**6,073**	**116**	**-5,733**	**296**	**(s)**	**7,531**	**524**	**4,812**

[a] Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
[b] Unaccounted for crude oil represents the difference between the supply and disposition of crude oil.
[c] A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks.
[d] Products supplied is equal to field production, plus refinery production, plus imports, plus unaccounted for crude oil, plus net receipts, minus stock change, minus crude losses, minus refinery inputs, minus exports.
[e] Includes naphtha less than 401° F endpoint and other oils equal to or greater than 401° F endpoint.
(s) = Less than 500 barrels per day.
E = Estimated.
LRG = Liquefied Refinery Gas.
— = Not Applicable.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-811, "Monthly Bulk Terminal Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movement Report," and EIA-819M, "Monthly Oxygenate Telephone Report". Domestic crude oil production estimates based on historical statistics from State conservation agencies and the Minerals Management Service of the U.S. Department of the Interior. Export data from the Bureau of the Census and Form EIA-810, "Monthly Refinery Report."

Table 18. PAD District IV—Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, August 1998

(Thousand Barrels)

Commodity	Supply					Disposition					Ending Stocks
	Field Production	Refinery Production	Imports by PAD District of Entry[a]	Unaccounted For Crude Oil[b]	Net Receipts	Stock Change[c]	Crude Losses	Refinery Inputs	Exports	Products Supplied[d]	
Crude Oil	E **10,250**	**—**	**5,325**	**1,918**	**-2,016**	**-218**	**0**	**15,695**	**0**	**0**	**11,874**
Natural Gas Liquids and LRGs	**4,272**	**263**	**318**	**—**	**-3,951**	**111**	**—**	**479**	**4**	**308**	**1,505**
Pentanes Plus	810	—	192	—	-454	1	—	226	4	317	214
Liquefied Petroleum Gases	3,462	263	126	—	-3,497	110	—	253	(s)	-9	1,291
Ethane/Ethylene	1,189	1	0	—	-1,405	-3	—	0	0	-212	200
Propane/Propylene	1,382	252	119	—	-1,306	61	—	0	(s)	386	513
Normal Butane/Butylene	583	72	7	—	-486	64	—	111	0	1	390
Isobutane/Isobutylene	308	-62	0	—	-300	-12	—	142	0	-184	188
Other Liquids	**267**	**—**	**0**	**—**	**0**	**-37**	**—**	**128**	**0**	**176**	**4,328**
Other Hydrocarbons/Oxygenates	65	—	0	—	0	14	—	51	0	0	402
Unfinished Oils	—	—	0	—	0	-158	—	-18	0	176	2,419
Motor Gasoline Blend. Comp.	202	—	0	—	0	107	—	95	0	0	1,507
Aviation Gasoline Blend. Comp.	—	—	0	—	0	0	—	0	0	0	0
Finished Petroleum Products	**-88**	**16,585**	**229**	**—**	**2,248**	**-879**	**—**	**—**	**14**	**19,839**	**10,243**
Finished Motor Gasoline	-88	8,220	18	—	850	100	—	—	0	8,900	4,485
Reformulated	—	0	0	—	0	0	—	—	0	0	0
Oxygenated	1,139	134	0	—	0	44	—	—	0	1,229	160
Other	-1,227	8,086	18	—	850	56	—	—	0	7,671	4,325
Finished Aviation Gasoline	—	19	1	—	15	4	—	—	0	31	34
Jet Fuel	—	741	0	—	937	-265	—	—	0	1,943	826
Naphtha-Type	—	0	0	—	0	0	—	—	0	0	0
Kerosene-Type	—	741	0	—	937	-265	—	—	0	1,943	826
Kerosene	—	31	0	—	0	-16	—	—	0	47	88
Distillate Fuel Oil	—	4,274	204	—	446	-226	—	—	0	5,150	2,644
0.05 percent sulfur and under	—	3,580	91	—	446	-231	—	—	0	4,348	2,241
Greater than 0.05 percent sulfur	—	694	113	—	0	5	—	—	0	802	403
Residual Fuel Oil	—	342	0	—	0	-78	—	—	0	420	529
Petrochemical Feedstocks[e]	—	22	0	—	0	0	—	—	0	22	1
Special Naphthas	—	0	0	—	0	0	—	—	(s)	(s)	0
Lubricants	—	0	0	—	0	0	—	—	10	-10	0
Waxes	—	109	0	—	0	2	—	—	2	105	52
Petroleum Coke	—	508	0	—	0	78	—	—	0	430	246
Asphalt and Road Oil	—	1,597	6	—	0	-482	—	—	1	2,084	1,311
Still Gas	—	667	0	—	0	0	—	—	0	667	0
Miscellaneous Products	—	55	0	—	0	4	—	—	0	51	27
Total	**14,701**	**16,848**	**5,872**	**1,918**	**-3,719**	**-1,023**	**0**	**16,302**	**18**	**20,323**	**27,950**

[a] Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
[b] Unaccounted for crude oil represents the difference between the supply and disposition of crude oil.
[c] A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks.
[d] Products supplied is equal to field production, plus refinery production, plus imports, plus unaccounted for crude oil, plus net receipts, minus stock change, minus crude losses, minus refinery inputs, minus exports.
[e] Includes naphtha less than 401° F endpoint and other oils equal to or greater than 401° F endpoint.
(s) = Less than 500 barrels.
E = Estimated.
LRG = Liquefied Refinery Gas.
— = Not Applicable.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-811, "Monthly Bulk Terminal Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movement Report," and EIA-819M, "Monthly Oxygenate Telephone Report". Domestic crude oil production estimates based on historical statistics from State conservation agencies and the Minerals Management Service of the U.S. Department of the Interior. Export data from the Bureau of the Census and Form EIA-810, "Monthly Refinery Report."

Table 19. PAD District IV—Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-August 1998

(Thousand Barrels)

Commodity	Supply					Disposition					Ending Stocks
	Field Production	Refinery Production	Imports by PAD District of Entry[a]	Unaccounted For Crude Oil[b]	Net Receipts	Stock Change[c]	Crude Losses	Refinery Inputs	Exports	Products Supplied[d]	
Crude Oil	E **82,719**	**—**	**45,360**	**13,841**	**-27,700**	**-910**	**0**	**114,996**	**135**	**0**	**11,874**
Natural Gas Liquids and LRGs	**34,915**	**1,828**	**2,517**	**—**	**-31,010**	**135**	**—**	**3,672**	**41**	**4,402**	**1,505**
Pentanes Plus	6,286	—	944	—	-3,398	-13	—	1,150	36	2,659	214
Liquefied Petroleum Gases	28,629	1,828	1,573	—	-27,612	148	—	2,522	5	1,743	1,291
Ethane/Ethylene	10,094	2	0	—	-11,909	-13	—	0	0	-1,800	200
Propane/Propylene	11,569	2,128	1,032	—	-9,754	24	—	0	5	4,946	513
Normal Butane/Butylene	4,479	75	540	—	-3,591	84	—	1,546	0	-127	390
Isobutane/Isobutylene	2,487	-377	1	—	-2,358	53	—	976	0	-1,276	188
Other Liquids	**1,813**	**—**	**0**	**—**	**0**	**-61**	**—**	**1,919**	**0**	**-45**	**4,328**
Other Hydrocarbons/Oxygenates	624	—	0	—	0	150	—	474	0	0	402
Unfinished Oils	—	—	0	—	0	198	—	-153	0	-45	2,419
Motor Gasoline Blend. Comp.	1,189	—	0	—	0	-409	—	1,598	0	0	1,507
Aviation Gasoline Blend. Comp.	—	—	0	—	0	0	—	0	0	0	0
Finished Petroleum Products	**-359**	**122,762**	**1,406**	**—**	**12,092**	**-1,080**	**—**	**—**	**92**	**136,890**	**10,243**
Finished Motor Gasoline	-359	60,616	142	—	2,759	-361	—	—	3	63,516	4,485
Reformulated	—	0	0	—	0	0	—	—	0	0	0
Oxygenated	8,305	2,918	0	—	61	-104	—	—	2	11,385	160
Other	-8,663	57,698	142	—	2,698	-257	—	—	1	52,131	4,325
Finished Aviation Gasoline	—	115	1	—	101	-7	—	—	0	224	34
Jet Fuel	—	5,732	0	—	7,158	-13	—	—	(s)	12,903	826
Naphtha-Type	—	0	0	—	0	0	—	—	0	0	0
Kerosene-Type	—	5,732	0	—	7,158	-13	—	—	(s)	12,903	826
Kerosene	—	468	0	—	-12	21	—	—	0	435	88
Distillate Fuel Oil	—	33,091	1,200	—	2,086	-155	—	—	(s)	36,532	2,644
0.05 percent sulfur and under	—	26,867	395	—	2,101	-63	—	—	0	29,426	2,241
Greater than 0.05 percent sulfur	—	6,224	805	—	-15	-92	—	—	(s)	7,106	403
Residual Fuel Oil	—	3,072	0	—	0	-71	—	—	0	3,143	529
Petrochemical Feedstocks[e]	—	130	0	—	0	0	—	—	0	130	1
Special Naphthas	—	0	0	—	0	0	—	—	2	-2	0
Lubricants	—	0	0	—	0	0	—	—	64	-64	0
Waxes	—	543	0	—	0	32	—	—	13	498	52
Petroleum Coke	—	3,978	0	—	0	142	—	—	(s)	3,836	246
Asphalt and Road Oil	—	9,723	63	—	0	-681	—	—	8	10,459	1,311
Still Gas	—	4,846	0	—	0	0	—	—	0	4,846	0
Miscellaneous Products	—	448	0	—	0	13	—	—	0	435	27
Total	**119,089**	**124,590**	**49,283**	**13,841**	**-46,618**	**-1,916**	**0**	**120,587**	**267**	**141,247**	**27,950**

[a] Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
[b] Unaccounted for crude oil represents the difference between the supply and disposition of crude oil.
[c] A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks.
[d] Products supplied is equal to field production, plus refinery production, plus imports, plus unaccounted for crude oil, plus net receipts, minus stock change, minus crude losses, minus refinery inputs, minus exports.
[e] Includes naphtha less than 401° F endpoint and other oils equal to or greater than 401° F endpoint.
(s) = Less than 500 barrels.
E = Estimated.
LRG = Liquefied Refinery Gas.
— = Not Applicable.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-811, "Monthly Bulk Terminal Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movement Report," and EIA-819M, "Monthly Oxygenate Telephone Report". Domestic crude oil production estimates based on historical statistics from State conservation agencies and the Minerals Management Service of the U.S. Department of the Interior. Export data from the Bureau of the Census and Form EIA-810, "Monthly Refinery Report."

Table 20. PAD District IV—Daily Average Supply and Disposition of Crude Oil and Petroleum Products, August 1998
(Thousand Barrels per Day)

Commodity	Supply					Disposition				
	Field Production	Refinery Production	Imports by PAD District of Entry[a]	Unaccounted For Crude Oil[b]	Net Receipts	Stock Change[c]	Crude Losses	Refinery Inputs	Exports	Products Supplied[d]
Crude Oil	E 331	—	172	62	-65	-7	0	506	0	0
Natural Gas Liquids and LRGs	138	8	10	—	-127	4	—	15	(s)	10
Pentanes Plus	26	—	6	—	-15	(s)	—	7	(s)	10
Liquefied Petroleum Gases	112	8	4	—	-113	4	—	8	(s)	(s)
Ethane/Ethylene	38	(s)	0	—	-45	(s)	—	0	0	-7
Propane/Propylene	45	8	4	—	-42	2	—	0	(s)	12
Normal Butane/Butylene	19	2	(s)	—	-16	2	—	4	0	(s)
Isobutane/Isobutylene	10	-2	0	—	-10	(s)	—	5	0	-6
Other Liquids	9	—	0	—	0	-1	—	4	0	6
Other Hydrocarbons/Oxygenates	2	—	0	—	0	(s)	—	2	0	0
Unfinished Oils	—	—	0	—	0	-5	—	-1	0	6
Motor Gasoline Blend. Comp.	7	—	0	—	0	3	—	3	0	0
Aviation Gasoline Blend. Comp.	—	—	0	—	0	0	—	0	0	0
Finished Petroleum Products	-3	535	7	—	73	-28	—	—	(s)	640
Finished Motor Gasoline	-3	265	1	—	27	3	—	—	0	287
Reformulated	—	0	0	—	0	0	—	—	0	0
Oxygenated	37	4	0	—	0	1	—	—	0	40
Other	-40	261	1	—	27	2	—	—	0	247
Finished Aviation Gasoline	—	1	(s)	—	(s)	(s)	—	—	0	1
Jet Fuel	—	24	0	—	30	-9	—	—	0	63
Naphtha-Type	—	0	0	—	0	0	—	—	0	0
Kerosene-Type	—	24	0	—	30	-9	—	—	0	63
Kerosene	—	1	0	—	0	-1	—	—	0	2
Distillate Fuel Oil	—	138	7	—	14	-7	—	—	0	166
0.05 percent sulfur and under	—	115	3	—	14	-7	—	—	0	140
Greater than 0.05 percent sulfur	—	22	4	—	0	(s)	—	—	0	26
Residual Fuel Oil	—	11	0	—	0	-3	—	—	0	14
Petrochemical Feedstocks[e]	—	1	0	—	0	0	—	—	0	1
Special Naphthas	—	0	0	—	0	0	—	—	(s)	(s)
Lubricants	—	0	0	—	0	0	—	—	(s)	(s)
Waxes	—	4	0	—	0	(s)	—	—	(s)	3
Petroleum Coke	—	16	0	—	0	3	—	—	0	14
Asphalt and Road Oil	—	52	(s)	—	0	-16	—	—	(s)	67
Still Gas	—	22	0	—	0	0	—	—	0	22
Miscellaneous Products	—	2	0	—	0	(s)	—	—	0	2
Total	474	543	189	62	-120	-33	0	526	1	656

[a] Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
[b] Unaccounted for crude oil represents the difference between the supply and disposition of crude oil.
[c] A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks.
[d] Products supplied is equal to field production, plus refinery production, plus imports, plus unaccounted for crude oil, plus net receipts, minus stock change, minus crude losses, minus refinery inputs, minus exports.
[e] Includes naphtha less than 401° F endpoint and other oils equal to or greater than 401° F endpoint.
(s) = Less than 500 barrels per day.
E = Estimated.
LRG = Liquefied Refinery Gas.
— = Not Applicable.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-811, "Monthly Bulk Terminal Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movement Report," and EIA-819M, "Monthly Oxygenate Telephone Report". Domestic crude oil production estimates based on historical statistics from State conservation agencies and the Minerals Management Service of the U.S. Department of the Interior. Export data from the Bureau of the Census and Form EIA-810, "Monthly Refinery Report."

Table 21. PAD District IV—Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-August 1998
(Thousand Barrels per Day)

Commodity	Supply					Disposition				
	Field Production	Refinery Production	Imports by PAD District of Entry[a]	Unaccounted For Crude Oil[b]	Net Receipts	Stock Change[c]	Crude Losses	Refinery Inputs	Exports	Products Supplied[d]
Crude Oil	E 340	—	187	57	-114	-4	0	473	1	0
Natural Gas Liquids and LRGs	144	8	10	—	-128	1	—	15	(s)	18
Pentanes Plus	26	—	4	—	-14	(s)	—	5	(s)	11
Liquefied Petroleum Gases	118	8	6	—	-114	1	—	10	(s)	7
Ethane/Ethylene	42	(s)	0	—	-49	(s)	—	0	0	-7
Propane/Propylene	48	9	4	—	-40	(s)	—	0	(s)	20
Normal Butane/Butylene	18	(s)	2	—	-15	(s)	—	6	0	-1
Isobutane/Isobutylene	10	-2	(s)	—	-10	(s)	—	4	0	-5
Other Liquids	7	—	0	—	0	(s)	—	8	0	(s)
Other Hydrocarbons/Oxygenates	3	—	0	—	0	1	—	2	0	0
Unfinished Oils	—	—	0	—	0	1	—	-1	0	(s)
Motor Gasoline Blend. Comp.	5	—	0	—	0	-2	—	7	0	0
Aviation Gasoline Blend. Comp.	—	—	0	—	0	0	—	0	0	0
Finished Petroleum Products	-1	505	6	—	50	-4	—	—	(s)	563
Finished Motor Gasoline	-1	249	1	—	11	-1	—	—	(s)	261
Reformulated	—	0	0	—	0	0	—	—	0	0
Oxygenated	34	12	0	—	(s)	(s)	—	—	(s)	47
Other	-36	237	1	—	11	-1	—	—	(s)	215
Finished Aviation Gasoline	—	(s)	(s)	—	(s)	(s)	—	—	0	1
Jet Fuel	—	24	0	—	29	(s)	—	—	(s)	53
Naphtha-Type	—	0	0	—	0	0	—	—	0	0
Kerosene-Type	—	24	0	—	29	(s)	—	—	(s)	53
Kerosene	—	2	0	—	(s)	(s)	—	—	0	2
Distillate Fuel Oil	—	136	5	—	9	-1	—	—	(s)	150
0.05 percent sulfur and under	—	111	2	—	9	(s)	—	—	0	121
Greater than 0.05 percent sulfur	—	26	3	—	(s)	(s)	—	—	(s)	29
Residual Fuel Oil	—	13	0	—	0	(s)	—	—	0	13
Petrochemical Feedstocks[e]	—	1	0	—	0	0	—	—	0	1
Special Naphthas	—	0	0	—	0	0	—	—	(s)	(s)
Lubricants	—	0	0	—	0	0	—	—	(s)	(s)
Waxes	—	2	0	—	0	(s)	—	—	(s)	2
Petroleum Coke	—	16	0	—	0	1	—	—	(s)	16
Asphalt and Road Oil	—	40	(s)	—	0	-3	—	—	(s)	43
Still Gas	—	20	0	—	0	0	—	—	0	20
Miscellaneous Products	—	2	0	—	0	(s)	—	—	0	2
Total	490	513	203	57	-192	-8	0	496	1	581

[a] Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
[b] Unaccounted for crude oil represents the difference between the supply and disposition of crude oil.
[c] A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks.
[d] Products supplied is equal to field production, plus refinery production, plus imports, plus unaccounted for crude oil, plus net receipts, minus stock change, minus crude losses, minus refinery inputs, minus exports.
[e] Includes naphtha less than 401° F endpoint and other oils equal to or greater than 401° F endpoint.
(s) = Less than 500 barrels per day.
E = Estimated.
LRG = Liquefied Refinery Gas.
— = Not Applicable.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-811, "Monthly Bulk Terminal Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movement Report," and EIA-819M, "Monthly Oxygenate Telephone Report". Domestic crude oil production estimates based on historical statistics from State conservation agencies and the Minerals Management Service of the U.S. Department of the Interior. Export data from the Bureau of the Census and Form EIA-810, "Monthly Refinery Report."

Table 22. PAD District V—Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, August 1998
(Thousand Barrels)

Commodity	Supply					Disposition					Ending Stocks
	Field Production	Refinery Production	Imports by PAD District of Entry[a]	Unaccounted For Crude Oil[b]	Net Receipts	Stock Change[c]	Crude Losses	Refinery Inputs	Exports	Products Supplied[d]	
Crude Oil	E **63,973**	**—**	**19,017**	**336**	**-1,462**	**-372**	**0**	**81,436**	**800**	**0**	**57,125**
Natural Gas Liquids and LRGs	**2,521**	**2,532**	**4**	**—**	**0**	**304**	**—**	**2,060**	**267**	**2,426**	**6,550**
Pentanes Plus	1,316	—	0	—	0	26	—	932	0	358	67
Liquefied Petroleum Gases	1,205	2,532	4	—	0	278	—	1,128	267	2,068	6,483
Ethane/Ethylene	2	0	0	—	0	0	—	0	0	2	0
Propane/Propylene	347	1,494	4	—	0	396	—	0	91	1,358	2,909
Normal Butane/Butylene	366	947	0	—	0	-45	—	674	176	508	3,050
Isobutane/Isobutylene	490	91	0	—	0	-73	—	454	0	200	524
Other Liquids	**3,473**	**—**	**1,692**	**—**	**0**	**246**	**—**	**5,149**	**77**	**-307**	**31,429**
Other Hydrocarbons/Oxygenates	3,214	—	1,135	—	0	94	—	4,178	77	0	3,842
Unfinished Oils	—	—	557	—	0	-118	—	982	0	-307	20,091
Motor Gasoline Blend. Comp.	259	—	0	—	0	270	—	-11	0	0	7,494
Aviation Gasoline Blend. Comp.	—	—	0	—	0	0	—	0	0	0	2
Finished Petroleum Products	**-31**	**91,458**	**576**	**—**	**3,615**	**739**	**—**	**—**	**5,984**	**88,895**	**54,874**
Finished Motor Gasoline	-31	42,925	15	—	2,245	-867	—	—	507	45,513	21,548
Reformulated	—	29,839	0	—	0	-1,076	—	—	7	30,908	12,741
Oxygenated	2,278	0	0	—	554	-1	—	—	29	2,803	633
Other	-2,309	13,086	15	—	1,691	210	—	—	471	11,802	8,174
Finished Aviation Gasoline	—	115	1	—	0	60	—	—	0	56	595
Jet Fuel	—	13,350	508	—	808	796	—	—	178	13,692	8,380
Naphtha-Type	—	10	0	—	0	-2	—	—	(s)	12	41
Kerosene-Type	—	13,340	508	—	808	798	—	—	177	13,681	8,339
Kerosene	—	123	0	—	0	-19	—	—	2	140	96
Distillate Fuel Oil	—	14,454	15	—	653	-384	—	—	1,085	14,421	10,383
0.05 percent sulfur and under	—	12,134	0	—	518	-541	—	—	65	13,128	7,536
Greater than 0.05 percent sulfur	—	2,320	15	—	135	157	—	—	1,020	1,293	2,847
Residual Fuel Oil	—	6,755	0	—	0	1,399	—	—	976	4,380	7,101
Petrochemical Feedstocks[e]	—	418	24	—	0	-62	—	—	0	504	315
Special Naphthas	—	355	0	—	0	-3	—	—	698	-340	56
Lubricants	—	717	0	—	-91	66	—	—	94	466	1,560
Waxes	—	62	5	—	0	5	—	—	12	50	190
Petroleum Coke	—	4,957	0	—	0	183	—	—	2,410	2,364	2,459
Asphalt and Road Oil	—	2,294	8	—	0	-454	—	—	21	2,735	2,037
Still Gas	—	4,753	0	—	0	0	—	—	0	4,753	0
Miscellaneous Products	—	180	0	—	0	19	—	—	1	160	154
Total	**69,936**	**93,990**	**21,289**	**336**	**2,153**	**917**	**0**	**88,645**	**7,128**	**91,014**	**149,978**

[a] Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
[b] Unaccounted for crude oil represents the difference between the supply and disposition of crude oil.
[c] A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks.
[d] Products supplied is equal to field production, plus refinery production, plus imports, plus unaccounted for crude oil, plus net receipts, minus stock change, minus crude losses, minus refinery inputs, minus exports.
[e] Includes naphtha less than 401° F endpoint and other oils equal to or greater than 401° F endpoint.
(s) = Less than 500 barrels.
E = Estimated.
LRG = Liquefied Refinery Gas.
— = Not Applicable.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-811, "Monthly Bulk Terminal Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movement Report," and EIA-819M, "Monthly Oxygenate Telephone Report". Domestic crude oil production estimates based on historical statistics from State conservation agencies and the Minerals Management Service of the U.S. Department of the Interior. Export data from the Bureau of the Census and Form EIA-810, "Monthly Refinery Report."

Table 23. PAD District V—Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-August 1998

(Thousand Barrels)

Commodity	Supply					Disposition					Ending Stocks
	Field Production	Refinery Production	Imports by PAD District of Entry[a]	Unaccounted For Crude Oil[b]	Net Receipts	Stock Change[c]	Crude Losses	Refinery Inputs	Exports	Products Supplied[d]	
Crude Oil	E **514,375**	**—**	**119,333**	**3,302**	**-15,822**	**-3,558**	**0**	**607,455**	**17,291**	**0**	**57,125**
Natural Gas Liquids and LRGs	**23,680**	**19,209**	**20**	**—**	**0**	**1,644**	**—**	**21,255**	**3,339**	**16,671**	**6,550**
Pentanes Plus	12,420	—	0	—	0	43	—	9,890	1	2,486	67
Liquefied Petroleum Gases	11,260	19,209	20	—	0	1,601	—	11,365	3,338	14,185	6,483
Ethane/Ethylene	17	0	0	—	0	0	—	0	0	17	0
Propane/Propylene	2,903	11,475	20	—	0	428	—	0	1,655	12,315	2,909
Normal Butane/Butylene	3,896	6,693	0	—	0	1,168	—	7,575	1,684	162	3,050
Isobutane/Isobutylene	4,444	1,041	0	—	0	5	—	3,790	0	1,690	524
Other Liquids	**17,644**	**—**	**17,222**	**—**	**1,715**	**-2,036**	**—**	**35,134**	**462**	**3,021**	**31,429**
Other Hydrocarbons/Oxygenates	22,697	—	10,634	—	0	823	—	32,186	322	0	3,842
Unfinished Oils	—	—	5,483	—	-706	-748	—	2,504	0	3,021	20,091
Motor Gasoline Blend. Comp.	-5,053	—	1,105	—	2,421	-2,103	—	436	140	0	7,494
Aviation Gasoline Blend. Comp.	—	—	0	—	0	-8	—	8	0	0	2
Finished Petroleum Products	**6,713**	**683,734**	**4,517**	**—**	**25,008**	**-1,925**	**—**	**—**	**54,573**	**667,324**	**54,874**
Finished Motor Gasoline	6,713	324,915	847	—	17,171	-899	—	—	5,118	345,428	21,548
Reformulated	—	232,269	0	—	1,448	-936	—	—	273	234,380	12,741
Oxygenated	16,610	13	0	—	1,512	632	—	—	194	17,308	633
Other	-9,896	92,633	847	—	14,211	-595	—	—	4,651	93,739	8,174
Finished Aviation Gasoline	—	875	15	—	0	-7	—	—	0	897	595
Jet Fuel	—	99,994	1,624	—	4,448	-862	—	—	2,468	104,460	8,380
Naphtha-Type	—	105	0	—	0	16	—	—	19	70	41
Kerosene-Type	—	99,889	1,624	—	4,448	-878	—	—	2,449	104,390	8,339
Kerosene	—	1,023	0	—	0	0	—	—	46	977	96
Distillate Fuel Oil	—	110,031	502	—	3,834	-2,069	—	—	9,257	107,179	10,383
0.05 percent sulfur and under	—	87,089	100	—	2,803	-1,058	—	—	2,397	88,653	7,536
Greater than 0.05 percent sulfur	—	22,942	402	—	1,031	-1,011	—	—	6,859	18,527	2,847
Residual Fuel Oil	—	49,155	1,195	—	0	1,307	—	—	9,942	39,101	7,101
Petrochemical Feedstocks[e]	—	2,412	99	—	0	-9	—	—	0	2,520	315
Special Naphthas	—	1,257	3	—	0	-1	—	—	3,422	-2,161	56
Lubricants	—	4,888	0	—	-335	-180	—	—	777	3,956	1,560
Waxes	—	487	18	—	0	37	—	—	87	381	190
Petroleum Coke	—	38,938	194	—	0	701	—	—	23,224	15,207	2,459
Asphalt and Road Oil	—	13,455	12	—	0	80	—	—	158	13,229	2,037
Still Gas	—	34,975	0	—	0	0	—	—	0	34,975	0
Miscellaneous Products	—	1,329	8	—	-110	-23	—	—	74	1,176	154
Total	**562,412**	**702,943**	**141,092**	**3,302**	**10,901**	**-5,875**	**0**	**663,844**	**75,665**	**687,016**	**149,978**

[a] Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
[b] Unaccounted for crude oil represents the difference between the supply and disposition of crude oil.
[c] A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks.
[d] Products supplied is equal to field production, plus refinery production, plus imports, plus unaccounted for crude oil, plus net receipts, minus stock change, minus crude losses, minus refinery inputs, minus exports.
[e] Includes naphtha less than 401° F endpoint and other oils equal to or greater than 401° F endpoint.
(s) = Less than 500 barrels.
E = Estimated.
LRG = Liquefied Refinery Gas.
— = Not Applicable.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-811, "Monthly Bulk Terminal Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movement Report," and EIA-819M, "Monthly Oxygenate Telephone Report". Domestic crude oil production estimates based on historical statistics from State conservation agencies and the Minerals Management Service of the U.S. Department of the Interior. Export data from the Bureau of the Census and Form EIA-810, "Monthly Refinery Report."

Table 24. PAD District V — Daily Average Supply and Disposition of Crude Oil and Petroleum Products, August 1998
(Thousand Barrels per Day)

Commodity	Supply					Disposition				
	Field Production	Refinery Production	Imports by PAD District of Entry[a]	Unaccounted For Crude Oil[b]	Net Receipts	Stock Change[c]	Crude Losses	Refinery Inputs	Exports	Products Supplied[d]
Crude Oil	E 2,064	—	613	11	-47	-12	0	2,627	26	0
Natural Gas Liquids and LRGs	81	82	(s)	—	0	10	—	66	9	78
Pentanes Plus	42	—	0	—	0	1	—	30	0	12
Liquefied Petroleum Gases	39	82	(s)	—	0	9	—	36	9	67
Ethane/Ethylene	(s)	0	0	—	0	0	—	0	0	(s)
Propane/Propylene	11	48	(s)	—	0	13	—	0	3	44
Normal Butane/Butylene	12	31	0	—	0	-1	—	22	6	16
Isobutane/Isobutylene	16	3	0	—	0	-2	—	15	0	6
Other Liquids	112	—	55	—	0	8	—	166	2	-10
Other Hydrocarbons/Oxygenates	104	—	37	—	0	3	—	135	2	0
Unfinished Oils	—	—	18	—	0	-4	—	32	0	-10
Motor Gasoline Blend. Comp.	8	—	0	—	0	9	—	(s)	0	0
Aviation Gasoline Blend. Comp.	—	—	0	—	0	0	—	0	0	0
Finished Petroleum Products	-1	2,950	19	—	117	24	—	—	193	2,868
Finished Motor Gasoline	-1	1,385	(s)	—	72	-28	—	—	16	1,468
Reformulated	—	963	0	—	0	-35	—	—	(s)	997
Oxygenated	73	0	0	—	18	(s)	—	—	1	90
Other	-74	422	(s)	—	55	7	—	—	15	381
Finished Aviation Gasoline	—	4	(s)	—	0	2	—	—	0	2
Jet Fuel	—	431	16	—	26	26	—	—	6	442
Naphtha-Type	—	(s)	0	—	0	(s)	—	—	(s)	(s)
Kerosene-Type	—	430	16	—	26	26	—	—	6	441
Kerosene	—	4	0	—	0	-1	—	—	(s)	5
Distillate Fuel Oil	—	466	(s)	—	21	-12	—	—	35	465
0.05 percent sulfur and under	—	391	0	—	17	-17	—	—	2	423
Greater than 0.05 percent sulfur	—	75	(s)	—	4	5	—	—	33	42
Residual Fuel Oil	—	218	0	—	0	45	—	—	31	141
Petrochemical Feedstocks[e]	—	13	1	—	0	-2	—	—	0	16
Special Naphthas	—	11	0	—	0	(s)	—	—	23	-11
Lubricants	—	23	0	—	-3	2	—	—	3	15
Waxes	—	2	(s)	—	0	(s)	—	—	(s)	2
Petroleum Coke	—	160	0	—	0	6	—	—	78	76
Asphalt and Road Oil	—	74	(s)	—	0	-15	—	—	1	88
Still Gas	—	153	0	—	0	0	—	—	0	153
Miscellaneous Products	—	6	0	—	0	1	—	—	(s)	5
Total	2,256	3,032	687	11	69	30	0	2,860	230	2,936

[a] Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
[b] Unaccounted for crude oil represents the difference between the supply and disposition of crude oil.
[c] A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks.
[d] Products supplied is equal to field production, plus refinery production, plus imports, plus unaccounted for crude oil, plus net receipts, minus stock change, minus crude losses, minus refinery inputs, minus exports.
[e] Includes naphtha less than 401° F endpoint and other oils equal to or greater than 401° F endpoint.
(s) = Less than 500 barrels per day.
E = Estimated.
LRG = Liquefied Refinery Gas.
— = Not Applicable.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-811, "Monthly Bulk Terminal Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movement Report," and EIA-819M, "Monthly Oxygenate Telephone Report". Domestic crude oil production estimates based on historical statistics from State conservation agencies and the Minerals Management Service of the U.S. Department of the Interior. Export data from the Bureau of the Census and Form EIA-810, "Monthly Refinery Report."

Table 25. PAD District V — Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-August 1998

(Thousand Barrels per Day)

Commodity	Supply					Disposition				
	Field Production	Refinery Production	Imports by PAD District of Entry[a]	Unaccounted For Crude Oil[b]	Net Receipts	Stock Change[c]	Crude Losses	Refinery Inputs	Exports	Products Supplied[d]
Crude Oil	E 2,117	—	491	14	-65	-15	0	2,500	71	0
Natural Gas Liquids and LRGs	97	79	(s)	—	0	7	—	87	14	69
Pentanes Plus	51	—	0	—	0	(s)	—	41	(s)	10
Liquefied Petroleum Gases	46	79	(s)	—	0	7	—	47	14	58
Ethane/Ethylene	(s)	0	0	—	0	0	—	0	0	(s)
Propane/Propylene	12	47	(s)	—	0	2	—	0	7	51
Normal Butane/Butylene	16	28	0	—	0	5	—	31	7	1
Isobutane/Isobutylene	18	4	0	—	0	(s)	—	16	0	7
Other Liquids	73	—	71	—	7	-8	—	145	2	12
Other Hydrocarbons/Oxygenates	93	—	44	—	0	3	—	132	1	0
Unfinished Oils	—	—	23	—	-3	-3	—	10	0	12
Motor Gasoline Blend. Comp.	-21	—	5	—	10	-9	—	2	1	0
Aviation Gasoline Blend. Comp.	—	—	0	—	0	(s)	—	(s)	0	0
Finished Petroleum Products	28	2,814	19	—	103	-8	—	—	225	2,746
Finished Motor Gasoline	28	1,337	3	—	71	-4	—	—	21	1,422
Reformulated	—	956	0	—	6	-4	—	—	1	965
Oxygenated	68	(s)	0	—	6	3	—	—	1	71
Other	-41	381	3	—	58	-2	—	—	19	386
Finished Aviation Gasoline	—	4	(s)	—	0	(s)	—	—	0	4
Jet Fuel	—	411	7	—	18	-4	—	—	10	430
Naphtha-Type	—	(s)	0	—	0	(s)	—	—	(s)	(s)
Kerosene-Type	—	411	7	—	18	-4	—	—	10	430
Kerosene	—	4	0	—	0	0	—	—	(s)	4
Distillate Fuel Oil	—	453	2	—	16	-9	—	—	38	441
0.05 percent sulfur and under	—	358	(s)	—	12	-4	—	—	10	365
Greater than 0.05 percent sulfur	—	94	2	—	4	-4	—	—	28	76
Residual Fuel Oil	—	202	5	—	0	5	—	—	41	161
Petrochemical Feedstocks[e]	—	10	(s)	—	0	(s)	—	—	0	10
Special Naphthas	—	5	(s)	—	0	(s)	—	—	14	-9
Lubricants	—	20	0	—	-1	-1	—	—	3	16
Waxes	—	2	(s)	—	0	(s)	—	—	(s)	2
Petroleum Coke	—	160	1	—	0	3	—	—	96	63
Asphalt and Road Oil	—	55	(s)	—	0	(s)	—	—	1	54
Still Gas	—	144	0	—	0	0	—	—	0	144
Miscellaneous Products	—	5	(s)	—	(s)	(s)	—	—	(s)	5
Total	2,314	2,893	581	14	45	-24	0	2,732	311	2,827

[a] Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
[b] Unaccounted for crude oil represents the difference between the supply and disposition of crude oil.
[c] A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks.
[d] Products supplied is equal to field production, plus refinery production, plus imports, plus unaccounted for crude oil, plus net receipts, minus stock change, minus crude losses, minus refinery inputs, minus exports.
[e] Includes naphtha less than 401° F endpoint and other oils equal to or greater than 401° F endpoint.
(s) = Less than 500 barrels per day.
E = Estimated.
LRG = Liquefied Refinery Gas.
— = Not Applicable.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-811, "Monthly Bulk Terminal Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movement Report," and EIA-819M, "Monthly Oxygenate Telephone Report". Domestic crude oil production estimates based on historical statistics from State conservation agencies and the Minerals Management Service of the U.S. Department of the Interior. Export data from the Bureau of the Census and Form EIA-810, "Monthly Refinery Report."

Table 26. Production of Crude Oil by PAD District and State
(Thousand Barrels)

PAD District and State	June 1998		January-June 1998	
	Total	Daily Average	Total	Daily Average
PAD District I	E **785**	E **26**	E **4,738**	E **26**
Florida	541	18	3,116	17
New York	E 10	E (s)	E 92	E 1
Pennsylvania	E 168	E 6	E 922	E 5
Virginia	E 1	E (s)	E 3	E (s)
West Virginia	E 115	E 4	E 722	E 4
Adjustment[a]	-50	-2	-116	-1
PAD District II	E **16,113**	E **537**	E **98,727**	E **545**
Illinois	1,117	37	7,024	39
Indiana	172	6	1,116	6
Kansas	E 3,104	E 103	E 18,974	E 105
Kentucky	247	8	1,601	9
Michigan	E 680	E 23	E 4,618	E 26
Missouri	7	(s)	50	(s)
Nebraska	267	9	1,691	9
North Dakota	2,977	99	18,017	100
Ohio	E 734	E 24	E 4,272	E 24
Oklahoma	5,526	184	38,072	210
South Dakota	99	3	630	3
Tennessee	18	1	148	1
Adjustment[a]	1,165	39	2,514	14
PAD District III	E **100,146**	E **3,338**	E **612,576**	E **3,384**
Alabama	E 1,074	E 36	E 6,644	E 37
Arkansas	E 618	E 21	E 3,853	E 21
Louisiana[b]	E 10,434	E 348	E 66,218	E 366
Mississippi	1,873	62	11,036	61
New Mexico	E 5,100	E 170	E 26,219	E 145
Texas[b]	41,332	1,378	257,308	1,422
Federal Offshore PAD District III	E 38,345	E 1,278	E 217,544	E 1,202
Adjustment[a]	1,370	46	23,753	131
PAD District IV	E **9,901**	E **330**	E **62,091**	E **343**
Colorado	E 1,838	E 61	E 11,407	E 63
Montana	E 1,306	E 44	E 7,577	E 42
Utah	E 1,593	E 53	E 10,011	E 55
Wyoming	5,285	176	E 32,136	E 178
Adjustment[a]	-121	-4	959	5
PAD District V	E **61,746**	E **2,058**	E **386,072**	E **2,133**
Alaska[b]	E 34,046	E 1,135	E 217,035	E 1,199
South Alaska	1,007	34	5,850	32
North Slope	33,040	1,101	211,185	1,167
Adjustment for Alaska[a]	0	0	0	0
Arizona	6	(s)	33	(s)
California[b]	23,428	781	141,426	781
Nevada	64	2	409	2
Federal Offshore PAD District V	3,845	128	23,672	131
Adjustment excluding Alaska[a]	356	12	3,496	19
U.S. Total[b]	E **188,691**	E **6,290**	E **1,164,203**	E **6,432**

[a] These adjustments are used to reconcile the national and PAD District level sums of the State data with the independently estimated U.S. and Alaskan figures shown in the Summary Statistics portion of this issue and with the PAD District level figures published in a previous issue. Revised data at the State, PAD District, and national levels will be published without adjustments in the *Petroleum Supply Annual.*

[b] Includes the following current month offshore production (thousand barrels): Alaska: State - 6,101; California: State -1,769; Louisiana: State - E1,628; Texas: State - 74; U.S. Total, including Federal offshore - E51,762.

(s) = Less than 500 barrels or less than 500 barrels per day.

E = Estimated.

NA = Not Available.

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

Sources: State government agencies, U.S. Department of the Interior, Minerals Management Service and the Conservation Committee of California Oil Producers.

Table 27. Natural Gas Plant Net Production and Stocks of Petroleum Products by PAD and Refining Districts, August 1998
(Thousand Barrels)

Commodity	PAD District I			PAD District II			
	East Coast	Appalachian No. 1	Total	Ind., Ill., Ky.	Minn., Wis., N. Dak., S. Dak.	Okla., Kans., Mo.	Total
	Net Production						
Natural Gas Liquids	**115**	**718**	**833**	**498**	**348**	**8,060**	**8,906**
Pentanes Plus	14	83	97	102	98	1,090	1,290
Liquefied Petroleum Gases	101	635	736	396	250	6,970	7,616
Ethane	36	214	250	99	0	2,810	2,909
Propane	38	287	325	169	154	2,716	3,039
Normal Butane	27	93	120	71	96	865	1,032
Isobutane	0	41	41	57	0	579	636
	Stocks						
Natural Gas Liquids	**11**	**35**	**46**	**85**	**60**	**2,286**	**2,431**
Pentanes Plus	0	8	8	10	21	342	373
Liquefied Petroleum Gases	11	27	38	75	39	1,944	2,058
Ethane	0	0	0	17	0	319	336
Propane	9	18	27	33	27	1,002	1,062
Normal Butane	2	7	9	11	12	456	479
Isobutane	0	2	2	14	0	167	181

Commodity	PAD District III						PAD Dist. IV	PAD Dist. V	U.S. Total
	Texas Inland	Texas Gulf Coast	La. Gulf Coast	N. La., Ark.	New Mexico	Total	Rocky Mt.	West Coast	
	Net Production								
Natural Gas Liquids	**18,588**	**3,468**	**7,899**	**499**	**6,127**	**36,581**	**4,272**	**2,521**	**53,113**
Pentanes Plus	3,386	562	1,504	177	717	6,346	810	1,316	9,859
Liquefied Petroleum Gases	15,202	2,906	6,395	322	5,410	30,235	3,462	1,205	43,254
Ethane	6,623	1,495	2,505	31	2,867	13,521	1,189	2	17,871
Propane	5,347	897	2,262	143	1,651	10,300	1,382	347	15,393
Normal Butane	2,225	-1,497	853	96	594	2,271	583	366	4,372
Isobutane	1,007	2,011	775	52	298	4,143	308	490	5,618
	Stocks								
Natural Gas Liquids	**147**	**543**	**2,290**	**40**	**69**	**3,089**	**304**	**183**	**6,053**
Pentanes Plus	63	130	546	8	0	747	124	20	1,272
Liquefied Petroleum Gases	84	413	1,744	32	69	2,342	180	163	4,781
Ethane	7	131	240	7	0	385	3	0	724
Propane	48	132	365	14	61	620	84	131	1,924
Normal Butane	20	83	754	9	4	870	63	20	1,441
Isobutane	9	67	385	2	4	467	30	12	692

Note: Refer to Appendix A for Refining District descriptions.
Source: Energy Information Administration (EIA) Form EIA-816, “Monthly Natural Gas Liquids Report.”

Table 28. Refinery Input of Crude Oil and Petroleum Products by PAD and Refining Districts, August 1998

(Thousand Barrels, Except Where Noted)

Commodity	PAD District I			PAD District II			
	East Coast	Appalachian No. 1	Total	Ind., Ill., Ky.	Minn., Wis., N. Dak., S. Dak.	Okla., Kans., Mo.	Total
Crude Oil	**47,714**	**3,012**	**50,726**	**72,067**	**13,869**	**20,561**	**106,497**
Natural Gas Liquids	**31**	**0**	**31**	**992**	**191**	**1,056**	**2,239**
Pentanes Plus	0	0	0	133	122	558	813
Liquefied Petroleum Gases	31	0	31	859	69	498	1,426
Ethane	0	0	0	0	0	0	0
Propane	0	0	0	0	0	0	0
Normal Butane	10	0	10	191	0	162	353
Isobutane	21	0	21	668	69	336	1,073
Other Liquids	**11,123**	**-11**	**11,112**	**1,477**	**819**	**-429**	**1,867**
Other Hydrocarbons/Hydrogen/Oxygenates	2,136	0	2,136	892	234	88	1,214
Other Hydrocarbons/Hydrogen	0	0	0	25	0	16	41
Oxygenates	W	W	2,136	867	234	72	1,173
Fuel Ethanol	W	W	W	W	W	W	1,016
Methanol	W	W	W	W	W	W	W
MTBE	W	W	2,060	W	W	W	W
Other Oxygenates[a]	W	W	W	W	W	W	W
Unfinished Oils (net)	3,085	-7	3,078	2,820	29	-524	2,325
Motor Gasoline Blend. Comp. (net)	5,980	-4	5,976	-2,216	556	7	-1,653
Aviation Gasoline Blend. Comp. (net)	-78	0	-78	-19	0	0	-19
Total Input to Refineries	**58,868**	**3,001**	**61,869**	**74,536**	**14,879**	**21,188**	**110,603**
Atmospheric Crude Oil Distillation							
Gross Input (daily average)	1,497	97	1,594	2,427	447	665	3,540
Operable Capacity (daily average)	1,547	98	1,645	2,410	414	701	3,525
Operable Utilization Rate (percent)[b,c]	96.7	99.5	96.9	100.7	108.1	94.9	100.4
Downstream Processing							
Fresh Feed Input (daily average)							
Catalytic Cracking	630	22	653	830	137	187	1,154
Catalytic Hydrocracking	55	0	55	141	0	4	145
Delayed and Fluid Coking	86	0	86	189	50	83	322
Crude Oil Qualities							
Sulfur Content, Weighted Average (percent)	1.01	1.11	1.01	1.14	2.07	0.75	1.18
API Gravity, Weighted Average (degrees)	32.85	34.17	32.93	33.19	28.98	34.93	32.98
Operable Capacity (daily average)	**1,547**	**98**	**1,645**	**2,410**	**414**	**701**	**3,525**
Operating	1,453	98	1,551	2,410	414	701	3,525
Idle	94	0	94	0	0	0	0
Alaskan Crude Oil Receipts	**0**	**0**	**0**	**92**	**0**	**0**	**92**

See footnotes at end of table.

Table 28. Refinery Input of Crude Oil and Petroleum Products by PAD and Refining Districts, August 1998 (Continued)

(Thousand Barrels, Except Where Noted)

Commodity	PAD District III						PAD Dist. IV	PAD Dist. V	U.S. Total
	Texas Inland	Texas Gulf Coast	La. Gulf Coast	N. La., Ark.	New Mexico	Total	Rocky Mt.	West Coast	
Crude Oil	**19,080**	**112,319**	**91,015**	**5,817**	**2,883**	**231,114**	**15,695**	**81,436**	**485,468**
Natural Gas Liquids	**1,078**	**2,560**	**1,371**	**206**	**254**	**5,469**	**479**	**2,060**	**10,278**
Pentanes Plus	566	976	299	176	133	2,150	226	932	4,121
Liquefied Petroleum Gases	512	1,584	1,072	30	121	3,319	253	1,128	6,157
Ethane	0	0	0	0	0	0	0	0	0
Propane	0	0	0	0	0	0	0	0	0
Normal Butane	427	294	331	0	0	1,052	111	674	2,200
Isobutane	85	1,290	741	30	121	2,267	142	454	3,957
Other Liquids	**5**	**6,038**	**1,524**	**-255**	**-205**	**7,107**	**128**	**5,149**	**25,363**
Other Hydrocarbons/Hydrogen/Oxygenates	142	2,266	959	1	23	3,391	51	4,178	10,970
Other Hydrocarbons/Hydrogen	142	336	497	0	0	975	3	986	2,005
Oxygenates	0	1,930	462	W	W	2,416	48	3,192	8,965
Fuel Ethanol	W	W	W	W	W	W	W	W	1,047
Methanol	W	W	W	W	W	W	W	W	65
MTBE	W	1,837	W	W	W	2,270	W	3,136	7,617
Other Oxygenates[a]	W	W	W	W	W	W	W	W	236
Unfinished Oils (net)	139	5,406	1,311	-216	138	6,778	-18	982	13,145
Motor Gasoline Blend. Comp. (net)	-277	-1,634	-741	-40	-366	-3,058	95	-11	1,349
Aviation Gasoline Blend. Comp. (net)	1	0	-5	0	0	-4	0	0	-101
Total Input to Refineries	**20,163**	**120,917**	**93,910**	**5,768**	**2,932**	**243,690**	**16,302**	**88,645**	**521,109**
Atmospheric Crude Oil Distillation									
Gross Input (daily average)	617	3,564	2,931	176	93	7,380	518	2,775	15,806
Operable Capacity (daily average)	591	3,490	2,854	201	95	7,230	524	2,907	15,832
Operable Utilization Rate (percent)[b,c]	104.3	102.1	102.7	87.7	98.3	102.1	98.8	95.4	99.8
Downstream Processing									
Fresh Feed Input (daily average)									
Catalytic Cracking	200	1,398	973	27	31	2,629	154	757	5,347
Catalytic Hydrocracking	58	239	252	0	0	550	4	470	1,223
Delayed and Fluid Coking	5	433	437	12	0	887	38	492	1,824
Crude Oil Qualities									
Sulfur Content, Weighted Average (percent)	0.80	1.54	1.43	1.76	0.52	1.43	1.41	1.22	1.30
API Gravity, Weighted Average (degrees)	37.85	31.57	31.34	30.66	38.62	32.06	32.13	25.24	31.17
Operable Capacity (daily average)	**591**	**3,490**	**2,854**	**201**	**95**	**7,230**	**524**	**2,907**	**15,832**
Operating	591	3,463	2,854	201	95	7,203	524	2,886	15,689
Idle	0	27	0	0	0	27	0	22	143
Alaskan Crude Oil Receipts	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**37,354**	**37,446**

[a] Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).
[b] Represents gross input divided by operable calendar day capacity.
[c] See Table H2 in the Highlights Section for additional information concerning utilization rates.
W = Withheld to avoid disclosure of individual company data.
Note: • Totals may not equal sum of components due to independent rounding. • Refer to Appendix A for Refining District descriptions.
Source: Energy Information Administration (EIA) Form EIA-810, "Monthly Refinery Report."

Table 29. Refinery Net Production of Finished Petroleum Products by PAD and Refining Districts, August 1998
(Thousand Barrels)

Commodity	PAD District I			PAD District II			
	East Coast	Appalachian No. 1	Total	Ind., Ill., Ky.	Minn., Wis., N. Dak., S. Dak.	Okla., Kans., Mo.	Total
Liquefied Refinery Gases	1,881	75	1,956	3,578	582	520	4,680
Ethane/Ethylene	0	0	0	0	0	0	0
Ethane	W	W	W	W	W	W	W
Ethylene	W	W	W	W	W	W	W
Propane/Propylene	1,578	48	1,626	2,649	421	389	3,459
Propane	W	W	W	2,200	W	W	2,972
Propylene	W	W	W	449	W	W	487
Normal Butane/Butylene	356	43	399	808	117	130	1,055
Normal Butane	W	W	W	W	W	W	W
Butylene	W	W	W	W	W	W	W
Isobutane/Isobutylene	-53	-16	-69	121	44	1	166
Isobutane	W	W	W	W	W	W	W
Isobutylene	W	W	W	W	W	W	W
Finished Motor Gasoline	30,713	1,184	31,897	37,976	7,229	10,671	55,876
Reformulated	19,952	0	19,952	8,882	1,085	0	9,967
Oxygenated	0	0	0	0	1,629	15	1,644
Other	10,761	1,184	11,945	29,094	4,515	10,656	44,265
Finished Aviation Gasoline	28	0	28	77	38	56	171
Jet Fuel	3,426	49	3,475	4,774	1,114	955	6,843
Naphtha-Type	0	0	0	0	0	0	0
Kerosene-Type	3,426	49	3,475	4,774	1,114	955	6,843
Commercial	3,426	34	3,460	4,462	1,079	848	6,389
Military	0	15	15	312	35	107	454
Kerosene	374	43	417	456	17	11	484
Distillate Fuel Oil	12,814	770	13,584	16,892	3,320	6,819	27,031
0.05 percent sulfur and under	4,820	645	5,465	11,584	1,889	5,136	18,609
Greater than 0.05 percent sulfur	7,994	125	8,119	5,308	1,431	1,683	8,422
Residual Fuel Oil	4,137	76	4,213	1,475	355	67	1,897
Less than 0.31 percent sulfur	1,381	25	1,406	0	0	0	0
0.31 to 1.00 percent sulfur	2,415	51	2,466	439	0	0	439
Greater than 1.00 percent sulfur	341	0	341	1,036	355	67	1,458
Naphtha for Petrochemical Feedstock Use	394	0	394	581	0	-2	579
Other Oils for Petrochemical Feedstock Use	122	0	122	688	0	76	764
Special Naphthas	34	19	53	738	0	76	814
Lubricants	345	203	548	449	0	285	734
Naphthenic	0	0	0	0	0	0	0
Paraffinic	345	203	548	449	0	285	734
Waxes	0	63	63	71	0	30	101
Petroleum Coke	1,586	31	1,617	2,617	636	816	4,069
Marketable	606	0	606	1,605	473	692	2,770
Catalyst	980	31	1,011	1,012	163	124	1,299
Asphalt and Road Oil	3,073	428	3,501	4,389	1,934	647	6,970
Still Gas	2,081	80	2,161	2,980	591	833	4,404
Miscellaneous Products	31	39	70	163	68	61	292
Fuel Use	0	0	0	0	0	0	0
Nonfuel Use	31	39	70	163	68	61	292
Total	**61,039**	**3,060**	**64,099**	**77,904**	**15,884**	**21,921**	**115,709**
Processing Gain(-) or Loss(+)[a]	-2,171	-59	-2,230	-3,368	-1,005	-733	-5,106

See footnotes at end of table.

Table 29. Refinery Net Production of Finished Petroleum Products by PAD and Refining Districts, August 1998 (Continued)

(Thousand Barrels)

Commodity	PAD District III						PAD Dist. IV	PAD Dist. V	U.S. Total
	Texas Inland	Texas Gulf Coast	La. Gulf Coast	N. La., Ark.	New Mexico	Total	Rocky Mt.	West Coast	
Liquefied Refinery Gases	1,110	8,948	4,898	81	112	15,149	263	2,532	24,580
Ethane/Ethylene	18	1,008	153	0	0	1,179	1	0	1,180
Ethane	W	W	W	W	W	W	W	W	972
Ethylene	W	W	W	W	W	W	W	W	208
Propane/Propylene	644	5,417	3,823	89	65	10,038	252	1,494	16,869
Propane	W	2,269	2,834	W	W	5,646	W	W	11,572
Propylene	W	3,148	989	W	W	4,392	W	W	5,297
Normal Butane/Butylene	429	2,229	879	6	47	3,590	72	947	6,063
Normal Butane	W	W	W	W	W	W	W	W	5,670
Butylene	W	W	W	W	W	W	W	W	393
Isobutane/Isobutylene	19	294	43	-14	0	342	-62	91	468
Isobutane	W	W	W	W	W	W	W	W	251
Isobutylene	W	W	W	W	W	W	W	W	217
Finished Motor Gasoline	10,631	56,417	40,964	1,628	1,551	111,191	8,220	42,925	250,109
Reformulated	714	13,544	3,298	0	0	17,556	0	29,839	77,314
Oxygenated	0	0	21	0	34	55	134	0	1,833
Other	9,917	42,873	37,645	1,628	1,517	93,580	8,086	13,086	170,962
Finished Aviation Gasoline	179	194	64	0	0	437	19	115	770
Jet Fuel	1,577	11,266	12,080	186	224	25,333	741	13,350	49,742
Naphtha-Type	1	0	0	0	0	1	0	10	11
Kerosene-Type	1,576	11,266	12,080	186	224	25,332	741	13,340	49,731
Commercial	1,261	9,843	11,697	90	0	22,891	560	11,680	44,980
Military	315	1,423	383	96	224	2,441	181	1,660	4,751
Kerosene	4	1,292	351	66	-1	1,712	31	123	2,767
Distillate Fuel Oil	4,681	22,362	19,087	1,345	804	48,279	4,274	14,454	107,622
0.05 percent sulfur and under	3,627	16,221	9,943	597	790	31,178	3,580	12,134	70,966
Greater than 0.05 percent sulfur	1,054	6,141	9,144	748	14	17,101	694	2,320	36,656
Residual Fuel Oil	352	5,183	5,224	148	14	10,921	342	6,755	24,128
Less than 0.31 percent sulfur	274	182	333	0	0	789	56	192	2,443
0.31 to 1.00 percent sulfur	13	506	1,076	120	14	1,729	14	1,069	5,717
Greater than 1.00 percent sulfur	65	4,495	3,815	28	0	8,403	272	5,494	15,968
Naphtha for Petrochemical Feedstock Use	119	5,465	978	0	1	6,563	0	126	7,662
Other Oils for Petrochemical Feedstock Use	179	2,749	3,194	0	0	6,122	22	292	7,322
Special Naphthas	102	842	155	178	0	1,277	0	355	2,499
Lubricants	W	1,962	W	W	W	4,088	0	717	6,087
Naphthenic	W	369	W	W	W	971	0	280	1,251
Paraffinic	W	1,593	W	W	W	3,117	0	437	4,836
Waxes	0	249	124	107	0	480	109	62	815
Petroleum Coke	321	6,092	4,803	66	36	11,318	508	4,957	22,469
Marketable	34	4,021	3,642	49	0	7,746	280	3,780	15,182
Catalyst	287	2,071	1,161	17	36	3,572	228	1,177	7,287
Asphalt and Road Oil	643	1,311	1,632	1,144	145	4,875	1,597	2,294	19,237
Still Gas	801	5,076	3,865	197	79	10,018	667	4,753	22,003
Miscellaneous Products	69	448	554	0	0	1,071	55	180	1,668
Fuel Use	0	0	232	0	0	232	0	-24	208
Nonfuel Use	69	448	322	0	0	839	55	204	1,460
Total	**20,824**	**129,856**	**99,389**	**5,800**	**2,965**	**258,834**	**16,848**	**93,990**	**549,480**
Processing Gain(-) or Loss(+)[a]	-661	-8,939	-5,479	-32	-33	-15,144	-546	-5,345	-28,371

[a] Represents the arithmetic difference between input and production.
W = Withheld to avoid disclosure of individual company data.
Note: Refer to Appendix A for Refining District descriptions.
Source: Energy Information Administration (EIA) Form EIA-810, "Monthly Refinery Report."

Table 30. Refinery Stocks of Crude Oil and Petroleum Products by PAD and Refining Districts, August 1998

(Thousand Barrels)

Commodity	PAD District I			PAD District II			
	East Coast	Appalachian No. 1	Total	Ind., Ill., Ky.	Minn., Wis., N. Dak., S. Dak.	Okla., Kans., Mo.	Total
Crude Oil	**13,326**	**340**	**13,666**	**9,930**	**1,840**	**2,993**	**14,763**
Petroleum Products	**57,282**	**2,161**	**59,443**	**43,080**	**10,724**	**12,543**	**66,347**
Pentanes Plus	0	0	0	6	52	354	412
Liquefied Petroleum Gases	2,902	52	2,954	3,002	754	1,680	5,436
Ethane/Ethylene	0	0	0	3	0	0	3
Propane/Propylene	651	6	657	1,605	29	629	2,263
Normal Butane/Butylene	1,921	44	1,965	1,149	648	897	2,694
Isobutane/Isobutylene	330	2	332	245	77	154	476
Other Hydrocarbons/Hydrogen/Oxygenates	1,712	6	1,718	324	98	64	486
Other Hydrocarbons/Hydrogen	0	0	0	24	0	0	24
Oxygenates	W	W	1,718	300	98	64	462
Fuel Ethanol	W	W	W	W	W	W	274
Methanol	W	W	W	W	W	W	W
MTBE	W	W	1,205	W	W	W	W
Other Oxygenates [a]	W	W	W	W	W	W	W
Unfinished Oils	10,826	593	11,419	10,053	662	3,771	14,486
Naphthas and Lighter	1,942	247	2,189	2,798	295	1,050	4,143
Kerosene and Light Gas Oils	1,916	4	1,920	1,652	53	319	2,024
Heavy Gas Oils	5,539	313	5,852	3,277	216	1,503	4,996
Residuum	1,429	29	1,458	2,326	98	899	3,323
Motor Gasoline Blending Components	5,868	31	5,899	7,174	892	888	8,954
Aviation Gasoline Blending Components	77	0	77	33	0	0	33
Finished Motor Gasoline	9,908	354	10,262	6,394	1,463	1,559	9,416
Reformulated	6,129	0	6,129	416	0	0	416
Oxygenated	0	7	7	0	213	0	213
Other	3,779	347	4,126	5,978	1,250	1,559	8,787
Finished Aviation Gasoline	42	0	42	34	49	47	130
Jet Fuel	1,245	20	1,265	2,780	173	395	3,348
Naphtha-Type	0	0	0	0	0	0	0
Kerosene-Type	1,245	20	1,265	2,780	173	395	3,348
Kerosene	260	49	309	195	66	44	305
Distillate Fuel Oil	15,896	243	16,139	6,294	2,012	2,119	10,425
0.05 percent sulfur and under	2,808	221	3,029	4,070	1,123	1,362	6,555
Greater then 0.05 percent sulfur	13,088	22	13,110	2,224	889	757	3,870
Residual Fuel Oil	5,305	53	5,358	1,513	294	73	1,880
Less than 0.31 percent sulfur	1,256	25	1,281	0	0	0	0
0.31 to 1.00 percent sulfur	2,504	28	2,532	254	0	1	255
Greater than 1.00 percent sulfur	1,545	0	1,545	1,259	294	72	1,625
Naphtha for Petrochemical Feedstock Use	504	0	504	195	0	1	196
Other Oils for Petrochemical Feedstock Use	0	0	0	63	0	0	63
Special Naphthas	59	14	73	312	0	30	342
Lubricants	311	332	643	543	0	0	543
Waxes	0	55	55	119	0	61	180
Petroleum Coke (Marketable)	601	0	601	798	2,437	415	3,650
Asphalt and Road Oil	1,762	311	2,073	3,153	1,756	1,013	5,922
Miscellaneous Products	4	48	52	95	16	29	140
Total Stocks, All Oils	**70,608**	**2,501**	**73,109**	**53,010**	**12,564**	**15,536**	**81,110**

See footnotes at end of table.

Table 30. Refinery Stocks of Crude Oil and Petroleum Products by PAD and Refining Districts, August 1998 (Continued)

(Thousand Barrels)

Commodity	PAD District III						PAD Dist. IV	PAD Dist. V	U.S. Total
	Texas Inland	Texas Gulf Coast	La. Gulf Coast	N. La., Ark.	New Mexico	Total	Rocky Mt.	West Coast	
Crude Oil	**1,037**	**29,447**	**19,231**	**1,130**	**356**	**51,201**	**2,116**	**22,451**	**104,197**
Petroleum Products	**13,109**	**72,404**	**58,592**	**4,590**	**1,566**	**150,261**	**10,334**	**63,083**	**349,468**
Pentanes Plus	243	179	13	20	6	461	18	0	891
Liquefied Petroleum Gases	4,125	4,691	6,950	196	55	16,017	466	1,502	26,375
Ethane/Ethylene	113	614	0	0	0	727	0	0	730
Propane/Propylene	2,082	1,942	974	4	4	5,006	107	178	8,211
Normal Butane/Butylene	1,481	1,357	5,335	171	35	8,379	243	929	14,210
Isobutane/Isobutylene	449	778	641	21	16	1,905	116	395	3,224
Other Hydrocarbons/Hydrogen/Oxygenates	45	1,458	599	4	15	2,121	148	2,763	7,236
Other Hydrocarbons/Hydrogen	0	0	1	0	0	1	0	4	29
Oxygenates	45	1,458	598	W	W	2,120	148	2,759	7,207
Fuel Ethanol	W	W	W	W	W	W	W	W	471
Methanol	W	W	W	W	W	W	W	W	863
MTBE	W	1,145	W	W	W	1,679	W	2,663	5,765
Other Oxygenates [a]	W	W	W	W	W	W	W	W	108
Unfinished Oils	2,615	23,225	21,048	1,110	489	48,487	2,419	20,091	96,902
Naphthas and Lighter	879	5,879	4,229	289	169	11,445	565	2,958	21,300
Kerosene and Light Gas Oils	307	4,180	3,075	281	70	7,913	365	5,213	17,435
Heavy Gas Oils	899	9,697	10,414	485	250	21,745	1,068	9,029	42,690
Residuum	530	3,469	3,330	55	0	7,384	421	2,891	15,477
Motor Gasoline Blending Components	1,242	6,434	4,932	138	421	13,167	1,507	7,108	36,635
Aviation Gasoline Blending Components	7	0	24	0	0	31	0	2	143
Finished Motor Gasoline	1,788	10,110	6,933	327	125	19,283	2,032	10,686	51,679
Reformulated	176	3,174	353	0	0	3,703	0	6,821	17,069
Oxygenated	0	0	0	0	0	0	0	0	220
Other	1,612	6,936	6,580	327	125	15,580	2,032	3,865	34,390
Finished Aviation Gasoline	69	180	93	0	0	342	24	204	742
Jet Fuel	483	4,986	3,101	103	43	8,716	400	4,371	18,100
Naphtha-Type	1	0	0	0	0	1	0	37	38
Kerosene-Type	482	4,986	3,101	103	43	8,715	400	4,334	18,062
Kerosene	23	569	260	32	14	898	83	80	1,675
Distillate Fuel Oil	1,211	9,217	5,245	515	232	16,420	1,241	5,459	49,684
0.05 percent sulfur and under	595	5,697	2,141	272	141	8,846	948	4,114	23,492
Greater then 0.05 percent sulfur	616	3,520	3,104	243	91	7,574	293	1,345	26,192
Residual Fuel Oil	232	2,799	3,120	111	6	6,268	529	4,925	18,960
Less than 0.31 percent sulfur	32	100	11	0	0	143	36	759	2,219
0.31 to 1.00 percent sulfur	3	211	376	69	6	665	290	885	4,627
Greater than 1.00 percent sulfur	197	2,488	2,733	42	0	5,460	203	3,281	12,114
Naphtha for Petrochemical Feedstock Use	27	533	341	0	19	920	0	98	1,718
Other Oils for Petrochemical Feedstock Use	93	1,585	679	0	0	2,357	1	217	2,638
Special Naphthas	33	1,208	45	117	0	1,403	0	56	1,874
Lubricants	31	2,696	1,697	870	0	5,294	0	1,074	7,554
Waxes	0	285	246	28	0	559	52	190	1,036
Petroleum Coke (Marketable)	0	1,515	2,227	0	0	3,742	246	2,459	10,698
Asphalt and Road Oil	805	547	575	1,019	141	3,087	1,167	1,681	13,930
Miscellaneous Products	37	187	464	0	0	688	1	117	998
Total Stocks, All Oils	**14,146**	**101,851**	**77,823**	**5,720**	**1,922**	**201,462**	**12,450**	**85,534**	**453,665**

[a] Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

W = Withheld to avoid disclosure of individual company data.

Notes: • Stocks are reported as of the last day of the month. • Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Form EIA-810, "Monthly Refinery Report."

Table 31. Percent Refinery Yield of Petroleum Products by PAD and Refining Districts,[a] August 1998

Commodity	PAD District I			PAD District II			
	East Coast	Appalachian No. 1	Total	Ind., Ill., Ky.	Minn., Wis., N. Dak., S. Dak.	Okla., Kans., Mo.	Total
Liquefied Refinery Gases	3.7	2.5	3.6	4.8	4.2	2.6	4.3
Finished Motor Gasoline[b]	44.4	39.5	44.1	51.2	45.0	47.5	49.7
Finished Aviation Gasoline[c]	0.2	0.0	0.2	0.1	0.3	0.3	0.2
Naphtha-Type Jet Fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Kerosene-Type Jet Fuel	6.7	1.6	6.5	6.4	8.0	4.8	6.3
Kerosene	0.7	1.4	0.8	0.6	0.1	0.1	0.4
Distillate Fuel Oil	25.2	25.6	25.2	22.6	23.9	34.0	24.8
Residual Fuel Oil	8.1	2.5	7.8	2.0	2.6	0.3	1.7
Naphtha for Petrochemical Feedstock Use	0.8	0.0	0.7	0.8	0.0	0.0	0.5
Other Oils for Petrochemical Feedstock Use	0.2	0.0	0.2	0.9	0.0	0.4	0.7
Special Naphthas	0.1	0.6	0.1	1.0	0.0	0.4	0.7
Lubricants	0.7	6.8	1.0	0.6	0.0	1.4	0.7
Waxes	0.0	2.1	0.1	0.1	0.0	0.1	0.1
Petroleum Coke	3.1	1.0	3.0	3.5	4.6	4.1	3.7
Asphalt and Road Oil	6.0	14.2	6.5	5.9	13.9	3.2	6.4
Still Gas	4.1	2.7	4.0	4.0	4.3	4.2	4.0
Miscellaneous Products	0.1	1.3	0.1	0.2	0.5	0.3	0.3
Processing Gain(-) or Loss(+)[d]	-4.3	-2.0	-4.1	-4.5	-7.2	-3.7	-4.7

Commodity	PAD District III						PAD Dist. IV	PAD Dist. V	U.S. Total
	Texas Inland	Texas Gulf Coast	La. Gulf Coast	N. La., Ark.	New Mexico	Total	Rocky Mt.	West Coast	
Liquefied Refinery Gases	5.8	7.6	5.3	1.4	3.7	6.4	1.7	3.1	4.9
Finished Motor Gasoline[b]	50.4	45.2	42.6	26.1	54.3	44.3	48.4	44.5	45.6
Finished Aviation Gasoline[c]	0.9	0.2	0.1	0.0	0.0	0.2	0.1	0.1	0.2
Naphtha-Type Jet Fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Kerosene-Type Jet Fuel	8.2	9.6	13.1	3.3	7.4	10.6	4.7	16.2	10.0
Kerosene	0.0	1.1	0.4	1.2	0.0	0.7	0.2	0.1	0.6
Distillate Fuel Oil	24.4	19.0	20.7	24.0	26.6	20.3	27.3	17.5	21.6
Residual Fuel Oil	1.8	4.4	5.7	2.6	0.5	4.6	2.2	8.2	4.8
Naphtha for Petrochemical Feedstock Use	0.6	4.6	1.1	0.0	0.0	2.8	0.0	0.2	1.5
Other Oils for Petrochemical Feedstock Use	0.9	2.3	3.5	0.0	0.0	2.6	0.1	0.4	1.5
Special Naphthas	0.5	0.7	0.2	3.2	0.0	0.5	0.0	0.4	0.5
Lubricants	0.3	1.7	1.5	11.7	0.0	1.7	0.0	0.9	1.2
Waxes	0.0	0.2	0.1	1.9	0.0	0.2	0.7	0.1	0.2
Petroleum Coke	1.7	5.2	5.2	1.2	1.2	4.8	3.2	6.0	4.5
Asphalt and Road Oil	3.3	1.1	1.8	20.4	4.8	2.0	10.2	2.8	3.9
Still Gas	4.2	4.3	4.2	3.5	2.6	4.2	4.3	5.8	4.4
Miscellaneous Products	0.4	0.4	0.6	0.0	0.0	0.5	0.4	0.2	0.3
Processing Gain(-) or Loss(+)[d]	-3.4	-7.6	-5.9	-0.6	-1.1	-6.4	-3.5	-6.5	-5.7

[a] Based on crude oil input and net reruns of unfinished oils.
[b] Based on total finished motor gasoline output minus net input of motor gasoline blending components, minus input of natural gas plant liquids, other hydrocarbons and oxygenates.
[c] Based on finished aviation gasoline output minus net input of aviation gasoline blending components.
[d] Represents the difference between input and production.
Notes: • Totals may not equal sum of components due to independent rounding. • Refer to Appendix A for Refining District descriptions.
Sources: Calculated from data on Tables 28 and 29.

Table 32. Imports of Residual Fuel Oil by Sulfur Content and by PAD District and State of Entry, August 1998

(Thousand Barrels)

PAD District and State of Entry	Residual Fuel Oil			
	Less than 0.31% Sulfur	0.31 to 1.00% Sulfur	Greater than 1.00% Sulfur	Total
PAD District I	**934**	**2,956**	**3,129**	**7,019**
Delaware	0	0	320	320
Florida	79	0	265	344
Maine	7	0	120	127
Maryland	0	620	204	824
Massachusetts	0	109	0	109
New Hampshire	0	0	150	150
New Jersey	68	1,208	1,068	2,344
New York	431	938	392	1,761
North Carolina	0	0	126	126
Pennsylvania	0	0	236	236
South Carolina	25	0	165	190
Vermont	0	0	2	2
Virginia	324	81	81	486
PAD District II	**31**	**0**	**44**	**75**
Michigan	31	0	44	75
U.S. Total	**965**	**2,956**	**3,173**	**7,094**

Source: Energy Information Administration (EIA) Form EIA-814, “Monthly Imports Report.”

Table 33. Imports of Crude Oil and Petroleum Products by PAD District, August 1998
(Thousand Barrels)

Commodity	Petroleum Administration for Defense Districts						Daily Average
	I	II	III	IV	V	U.S. Total	
Crude Oil[a,b]	**45,516**	**50,433**	**164,040**	**4,429**	**19,017**	**283,435**	**9,143**
Natural Gas Liquids	**758**	**1,868**	**4,600**	**318**	**4**	**7,548**	**243**
Pentanes Plus	0	30	1,252	192	0	1,474	48
Liquefied Petroleum Gases	758	1,838	3,348	126	4	6,074	196
Ethane	0	0	434	0	0	434	14
Ethylene	0	4	0	0	0	4	(s)
Propane	749	1,253	2,551	119	4	4,676	151
Propylene	0	195	0	0	0	195	6
Normal Butane	9	120	224	7	0	360	12
Butylene	0	0	0	0	0	0	0
Isobutane	0	266	139	0	0	405	13
Isobutylene	0	0	0	0	0	0	0
Other Liquids	**5,183**	**1**	**5,825**	**0**	**1,692**	**12,701**	**410**
Other Hydrocarbons/Hydrogen/Oxygenates	47	0	0	0	1,135	1,182	38
Other Hydrocarbons/Hydrogen	0	0	0	0	0	0	0
Oxygenates	47	0	0	0	1,135	1,182	38
Fuel Ethanol	0	0	0	0	5	5	(s)
MTBE	47	0	0	0	1,130	1,177	38
Other Oxygenates[c]	0	0	0	0	0	0	0
Unfinished Oils[a]	811	1	5,704	0	557	7,073	228
Naphthas and Lighter	241	1	862	0	0	1,104	36
Kerosene and Light Gas Oils	0	0	0	0	0	0	0
Heavy Gas Oils	570	0	3,437	0	0	4,007	129
Residuum	0	0	1,405	0	557	1,962	63
Motor Gasoline Blending Components	4,325	0	121	0	0	4,446	143
Aviation Gasoline Blending Components	0	0	0	0	0	0	0
Finished Petroleum Products	**25,057**	**358**	**5,803**	**229**	**576**	**32,023**	**1,033**
Finished Motor Gasoline	9,628	64	237	18	15	9,962	321
Reformulated	4,949	0	237	0	0	5,186	167
Oxygenated	0	0	0	0	0	0	0
Other	4,679	64	0	18	15	4,776	154
Finished Aviation Gasoline	0	1	0	1	1	3	(s)
Jet Fuel	1,651	0	0	0	508	2,159	70
Naphtha-Type	0	0	0	0	0	0	0
Kerosene-Type	1,651	0	0	0	508	2,159	70
Bonded Aircraft Fuel	691	0	0	0	3	694	22
Other	960	0	0	0	505	1,465	47
Kerosene	1	0	0	0	0	1	(s)
Distillate Fuel Oil	5,058	99	0	204	15	5,376	173
Bonded Ship Bunkers	0	0	0	6	15	21	1
0.05 percent sulfur and under	0	0	0	6	0	6	(s)
Greater than 0.05 percent sulfur	0	0	0	0	15	15	(s)
Other	5,058	99	0	198	0	5,355	173
0.05 percent sulfur and under	3,111	75	0	85	0	3,271	106
Greater than 0.05 percent sulfur	1,947	24	0	113	0	2,084	67
Residual Fuel Oil	7,019	75	0	0	0	7,094	229
Bonded Ship Bunkers	0	0	0	0	0	0	0
Less than 0.31 percent sulfur	0	0	0	0	0	0	0
0.31 to 1.00 percent sulfur	0	0	0	0	0	0	0
Greater than 1.00 percent sulfur	0	0	0	0	0	0	0
Other	7,019	75	0	0	0	7,094	229
Less than 0.31 percent sulfur	934	31	0	0	0	965	31
0.31 to 1.00 percent sulfur	2,956	0	0	0	0	2,956	95
Greater than 1.00 percent sulfur	3,129	44	0	0	0	3,173	102
Naphtha for Petrochemical Feedstock Use	301	35	1,523	0	24	1,883	61
Other Oils for Petrochemical Feedstock Use	0	0	3,955	0	0	3,955	128
Special Naphthas	102	34	70	0	0	206	7
Lubricants	263	26	11	0	0	300	10
Waxes	24	10	2	0	5	41	1
Petroleum Coke	0	0	0	0	0	0	0
Asphalt and Road Oil	1,010	14	0	6	8	1,038	33
Miscellaneous Products	0	0	5	0	0	5	(s)
Total	**76,514**	**52,660**	**180,268**	**4,976**	**21,289**	**335,707**	**10,829**

[a] Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.
[b] Includes crude oil imported for storage in the Strategic Petroleum Reserve.
[c] Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).
(s) = Less than 500 barrels per day.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 34. Year-to-Date Imports of Crude Oil and Petroleum Products by PAD District, January-August 1998
(Thousand Barrels)

Commodity	Petroleum Administration for Defense Districts						Daily Average
	I	II	III	IV	V	U.S. Total	
Crude Oil[a,b]	**376,834**	**402,925**	**1,155,358**	**31,652**	**119,333**	**2,086,102**	**8,585**
Natural Gas Liquids	**5,933**	**20,605**	**30,915**	**2,517**	**20**	**59,990**	**247**
Pentanes Plus	0	250	5,294	944	0	6,488	27
Liquefied Petroleum Gases	5,933	20,355	25,621	1,573	20	53,502	220
Ethane	0	0	3,991	0	0	3,991	16
Ethylene	0	86	0	0	0	86	(s)
Propane	5,664	15,113	14,296	1,032	20	36,125	149
Propylene	0	1,740	0	0	0	1,740	7
Normal Butane	269	1,531	4,630	540	0	6,970	29
Butylene	0	0	0	0	0	0	0
Isobutane	0	1,885	2,704	1	0	4,590	19
Isobutylene	0	0	0	0	0	0	0
Other Liquids	**55,172**	**191**	**52,722**	**0**	**17,222**	**125,307**	**516**
Other Hydrocarbons/Hydrogen/Oxygenates	3,793	0	22	0	10,634	14,449	59
Other Hydrocarbons/Hydrogen	31	0	0	0	0	31	(s)
Oxygenates	3,762	0	22	0	10,634	14,418	59
Fuel Ethanol	0	0	0	0	5	5	(s)
MTBE	3,762	0	22	0	10,629	14,413	59
Other Oxygenates[c]	0	0	0	0	0	0	0
Unfinished Oils[a]	6,809	185	51,133	0	5,483	63,610	262
Naphthas and Lighter	316	8	10,538	0	0	10,862	45
Kerosene and Light Gas Oils	272	0	0	0	0	272	1
Heavy Gas Oils	6,221	177	25,293	0	0	31,691	130
Residuum	0	0	15,302	0	5,483	20,785	86
Motor Gasoline Blending Components	44,570	6	1,567	0	1,105	47,248	194
Aviation Gasoline Blending Components	0	0	0	0	0	0	0
Finished Petroleum Products	**187,958**	**3,152**	**59,270**	**1,406**	**4,517**	**256,303**	**1,055**
Finished Motor Gasoline	68,623	1,110	1,862	142	847	72,584	299
Reformulated	37,037	0	1,342	0	0	38,379	158
Oxygenated	0	0	0	0	0	0	0
Other	31,586	1,110	520	142	847	34,205	141
Finished Aviation Gasoline	1	19	0	1	15	36	(s)
Jet Fuel	16,720	0	9	0	1,624	18,353	76
Naphtha-Type	0	0	0	0	0	0	0
Kerosene-Type	16,720	0	9	0	1,624	18,353	76
Bonded Aircraft Fuel	10,202	0	0	0	16	10,218	42
Other	6,518	0	9	0	1,608	8,135	33
Kerosene	206	0	0	0	0	206	1
Distillate Fuel Oil	44,165	800	0	1,200	502	46,667	192
Bonded Ship Bunkers	0	0	0	17	431	448	2
0.05 percent sulfur and under	0	0	0	17	29	46	(s)
Greater than 0.05 percent sulfur	0	0	0	0	402	402	2
Other	44,165	800	0	1,183	71	46,219	190
0.05 percent sulfur and under	23,960	571	0	378	71	24,980	103
Greater than 0.05 percent sulfur	20,205	229	0	805	0	21,239	87
Residual Fuel Oil	47,143	247	1,857	0	1,195	50,442	208
Bonded Ship Bunkers	0	0	0	0	0	0	0
Less than 0.31 percent sulfur	0	0	0	0	0	0	0
0.31 to 1.00 percent sulfur	0	0	0	0	0	0	0
Greater than 1.00 percent sulfur	0	0	0	0	0	0	0
Other	47,143	247	1,857	0	1,195	50,442	208
Less than 0.31 percent sulfur	9,704	159	906	0	562	11,331	47
0.31 to 1.00 percent sulfur	12,546	0	0	0	0	12,546	52
Greater than 1.00 percent sulfur	24,893	88	951	0	633	26,565	109
Naphtha for Petrochemical Feedstock Use	2,072	274	12,596	0	99	15,041	62
Other Oils for Petrochemical Feedstock Use	0	0	42,032	0	0	42,032	173
Special Naphthas	781	300	601	0	3	1,685	7
Lubricants	2,046	188	47	0	0	2,281	9
Waxes	209	91	24	0	18	342	1
Petroleum Coke	0	0	0	0	194	194	1
Asphalt and Road Oil	5,941	115	221	63	12	6,352	26
Miscellaneous Products	51	8	21	0	8	88	(s)
Total	**625,897**	**426,873**	**1,298,265**	**35,575**	**141,092**	**2,527,702**	**10,402**

[a] Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.
[b] Includes crude oil imported for storage in the Strategic Petroleum Reserve.
[c] Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).
(s) = Less than 500 barrels per day.
Note: Totals may not equal sum of components due to independent rounding.
Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 35. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin,[a] August 1998

(Thousand Barrels)

Country of Origin	Crude Oil[b]	Liquefied Petroleum Gases	Unfinished Oils	Gasoline Blending Compo-nents	Finished Motor Gasoline	Jet Fuel	Distillate Fuel Oil	Residual Fuel Oil	Kerosene	Special Naphthas
Arab OPEC	**76,349**	**2,067**	**501**	**106**	**466**	**0**	**23**	**1,018**	**0**	**0**
Algeria	296	2,067	501	0	0	0	0	1,018	0	0
Iraq	22,093	0	0	0	0	0	0	0	0	0
Kuwait	8,461	0	0	0	0	0	0	0	0	0
Saudi Arabia	45,499	0	0	106	466	0	23	0	0	0
Other OPEC	**65,598**	**738**	**1,888**	**1,866**	**2,166**	**406**	**1,423**	**1,438**	**0**	**0**
Indonesia	1,279	0	549	0	0	0	0	0	0	0
Nigeria	22,503	0	0	0	0	0	0	304	0	0
Venezuela	41,816	738	1,339	1,866	2,166	406	1,423	1,134	0	0
Non OPEC	**141,488**	**3,269**	**4,684**	**2,474**	**7,330**	**1,753**	**3,930**	**4,638**	**1**	**206**
Angola	13,073	0	0	0	0	0	0	0	0	0
Argentina	2,277	0	233	0	0	0	0	0	0	0
Australia	646	0	0	0	0	0	0	0	0	0
Belgium	0	0	759	0	9	0	0	0	0	0
Brazil	0	0	0	287	595	0	0	0	0	0
Brunei	410	0	0	0	0	0	0	0	0	0
Cameroon	0	0	0	0	0	0	0	409	0	0
Canada	38,691	2,606	319	0	1,870	310	1,655	1,338	1	136
China, People's Republic of	1,762	0	0	0	0	0	0	0	0	0
Colombia	11,060	0	0	0	0	104	0	0	0	0
Congo (Brazzaville)	1,914	0	0	0	0	0	0	0	0	0
Congo (Kinshasa)[d]	813	0	0	0	0	0	0	0	0	0
Ecuador	4,887	0	0	0	0	0	0	0	0	0
Egypt	695	0	0	0	0	0	0	0	0	0
France	0	0	43	111	326	0	0	0	0	0
Gabon	3,655	0	0	0	0	0	0	0	0	0
Germany, FR	0	0	0	0	1	0	0	729	0	0
Guatemala	895	0	0	0	0	0	0	0	0	0
Italy	0	0	0	71	233	0	0	0	0	0
Japan	0	0	0	0	0	0	0	0	0	0
Korea, Republic of	0	0	0	0	0	505	0	0	0	70
Malaysia	119	0	230	0	0	0	0	0	0	0
Mexico	35,297	0	0	0	0	0	0	0	0	0
Netherlands	0	0	192	121	31	0	0	0	0	0
Netherlands Antilles	0	0	901	0	0	181	0	188	0	0
Norway	8,064	663	138	0	27	0	0	0	0	0
Peru	1,084	0	0	0	0	0	0	0	0	0
Portugal	0	0	0	0	544	0	0	0	0	0
Puerto Rico	0	0	0	0	0	0	0	0	0	0
Russia	0	0	0	0	4	0	0	0	0	0
Singapore	117	0	172	0	0	0	0	0	0	0
Spain	0	0	0	0	6	0	0	0	0	0
Sweden	0	0	0	0	2	0	0	0	0	0
Trinidad and Tobago	1,631	0	0	0	0	0	275	35	0	0
United Kingdom	9,132	0	283	1,676	31	0	0	390	0	0
Virgin Islands	0	0	570	208	3,610	653	2,000	1,549	0	0
Yemen	956	0	0	0	0	0	0	0	0	0
Other	4,310	0	844	0	41	0	0	0	0	0
Total	**283,435**	**6,074**	**7,073**	**4,446**	**9,962**	**2,159**	**5,376**	**7,094**	**1**	**206**
Persian Gulf[e]	**76,053**	**0**	**0**	**106**	**466**	**0**	**23**	**0**	**0**	**0**

See footnotes at end of table.

Table 35. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin,[a] August 1998 (Continued)

(Thousand Barrels)

Country of Origin	Naphtha for Petrochemical Feedstock Use	Other Oils for Petrochemical Feedstock Use	Lubricants	Asphalt and Road Oil	Other Products[c]	Total Products	Total Crude Oil and Products	Daily Average Crude Oil	Daily Average Products	Daily Average Total
Arab OPEC	**0**	**3,053**	**0**	**0**	**1,656**	**8,890**	**85,239**	**2,463**	**287**	**2,750**
Algeria	0	3,053	0	0	1,252	7,891	8,187	10	255	264
Iraq	0	0	0	0	0	0	22,093	713	0	713
Kuwait	0	0	0	0	0	0	8,461	273	0	273
Saudi Arabia	0	0	0	0	404	999	46,498	1,468	32	1,500
Other OPEC	**363**	**0**	**0**	**694**	**226**	**11,208**	**76,806**	**2,116**	**362**	**2,478**
Indonesia	0	0	0	0	0	549	1,828	41	18	59
Nigeria	0	0	0	0	0	304	22,807	726	10	736
Venezuela	363	0	0	694	226	10,355	52,171	1,349	334	1,683
Non OPEC	**1,520**	**902**	**300**	**344**	**823**	**32,174**	**173,662**	**4,564**	**1,038**	**5,602**
Angola	0	0	0	0	0	0	13,073	422	0	422
Argentina	0	0	0	0	0	233	2,510	73	8	81
Australia	0	658	0	0	0	658	1,304	21	21	42
Belgium	0	0	0	0	0	768	768	0	25	25
Brazil	0	0	0	0	0	882	882	0	28	28
Brunei	0	0	0	0	0	0	410	13	0	13
Cameroon	0	0	0	0	0	409	409	0	13	13
Canada	311	0	61	229	663	9,499	48,190	1,248	306	1,555
China, People's Republic of	0	0	0	0	0	0	1,762	57	0	57
Colombia	0	0	0	0	0	104	11,164	357	3	360
Congo (Brazzaville)	0	0	0	0	0	0	1,914	62	0	62
Congo (Kinshasa)[d]	0	0	0	0	0	0	813	26	0	26
Ecuador	0	0	0	0	0	0	4,887	158	0	158
Egypt	0	0	0	0	0	0	695	22	0	22
France	294	0	11	0	0	785	785	0	25	25
Gabon	0	0	0	0	0	0	3,655	118	0	118
Germany, FR	0	0	0	0	5	735	735	0	24	24
Guatemala	0	0	0	0	0	0	895	29	0	29
Italy	0	0	0	0	0	304	304	0	10	10
Japan	4	0	0	0	8	12	12	0	(s)	(s)
Korea, Republic of	24	0	0	0	86	685	685	0	22	22
Malaysia	0	0	0	0	0	230	349	4	7	11
Mexico	323	0	0	115	5	443	35,740	1,139	14	1,153
Netherlands	0	0	0	0	0	344	344	0	11	11
Netherlands Antilles	0	0	0	0	0	1,270	1,270	0	41	41
Norway	0	0	0	0	0	828	8,892	260	27	287
Peru	0	0	0	0	0	0	1,084	35	0	35
Portugal	0	0	0	0	0	544	544	0	18	18
Puerto Rico	470	0	228	0	0	698	698	0	23	23
Russia	0	0	0	0	0	4	4	0	(s)	(s)
Singapore	0	0	0	0	0	172	289	4	6	9
Spain	0	244	0	0	0	250	250	0	8	8
Sweden	0	0	0	0	0	2	2	0	(s)	(s)
Trinidad and Tobago	0	0	0	0	0	310	1,941	53	10	63
United Kingdom	0	0	0	0	0	2,380	11,512	295	77	371
Virgin Islands	0	0	0	0	47	8,637	8,637	0	279	279
Yemen	0	0	0	0	0	0	956	31	0	31
Other	94	0	0	0	9	988	5,298	139	32	171
Total	**1,883**	**3,955**	**300**	**1,038**	**2,705**	**52,272**	**335,707**	**9,143**	**1,686**	**10,829**
Persian Gulf[e]	**0**	**0**	**0**	**0**	**404**	**999**	**77,052**	**2,453**	**32**	**2,486**

[a] Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.
[b] Includes crude oil imported for storage in the Strategic Petroleum Reserve.
[c] Includes aviation gasoline, aviation gasoline blending components, miscellaneous products, other hydrocarbons and oxygenates, pentanes plus, petroleum coke, and waxes.
[d] Formerly Zaire.
[e] Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.
(s) = Less than 500 barrels per day.
Note: Totals may not equal sum of components due to independent rounding.
Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 36. PAD District I—Imports of Crude Oil and Petroleum Products by Country of Origin,[a] August 1998
(Thousand Barrels)

Country of Origin	Crude Oil[b]	Liquefied Petroleum Gases	Unfinished Oils	Gasoline Blending Compo-nents	Finished Motor Gasoline	Jet Fuel	Distillate Fuel Oil	Residual Fuel Oil	Kerosene	Special Naphthas
Arab OPEC	**4,352**	**0**	**0**	**106**	**466**	**0**	**23**	**1,018**	**0**	**0**
Algeria	0	0	0	0	0	0	0	1,018	0	0
Saudi Arabia	4,352	0	0	106	466	0	23	0	0	0
Other OPEC	**13,501**	**0**	**0**	**1,866**	**1,929**	**406**	**1,423**	**1,438**	**0**	**0**
Nigeria	7,813	0	0	0	0	0	0	304	0	0
Venezuela	5,688	0	0	1,866	1,929	406	1,423	1,134	0	0
Non OPEC	**27,663**	**758**	**811**	**2,353**	**7,233**	**1,245**	**3,612**	**4,563**	**1**	**102**
Angola	7,324	0	0	0	0	0	0	0	0	0
Argentina	781	0	0	0	0	0	0	0	0	0
Belgium	0	0	0	0	9	0	0	0	0	0
Brazil	0	0	0	287	595	0	0	0	0	0
Cameroon	0	0	0	0	0	0	0	409	0	0
Canada	4,644	95	0	0	1,773	307	1,337	1,263	1	102
China, People's Republic of	638	0	0	0	0	0	0	0	0	0
Colombia	2,205	0	0	0	0	104	0	0	0	0
Congo (Brazzaville)	517	0	0	0	0	0	0	0	0	0
Congo (Kinshasa)[d]	813	0	0	0	0	0	0	0	0	0
Ecuador	1,418	0	0	0	0	0	0	0	0	0
Egypt	695	0	0	0	0	0	0	0	0	0
France	0	0	0	111	326	0	0	0	0	0
Gabon	1,449	0	0	0	0	0	0	0	0	0
Germany, FR	0	0	0	0	1	0	0	729	0	0
Italy	0	0	0	71	233	0	0	0	0	0
Japan	0	0	0	0	0	0	0	0	0	0
Mexico	1,272	0	0	0	0	0	0	0	0	0
Netherlands	0	0	0	0	31	0	0	0	0	0
Netherlands Antilles	0	0	241	0	0	181	0	188	0	0
Norway	4,785	663	0	0	27	0	0	0	0	0
Portugal	0	0	0	0	544	0	0	0	0	0
Puerto Rico	0	0	0	0	0	0	0	0	0	0
Russia	0	0	0	0	4	0	0	0	0	0
Spain	0	0	0	0	6	0	0	0	0	0
Sweden	0	0	0	0	2	0	0	0	0	0
Trinidad and Tobago	502	0	0	0	0	0	275	35	0	0
United Kingdom	620	0	0	1,676	31	0	0	390	0	0
Virgin Islands	0	0	570	208	3,610	653	2,000	1,549	0	0
Other	0	0	0	0	41	0	0	0	0	0
Total	**45,516**	**758**	**811**	**4,325**	**9,628**	**1,651**	**5,058**	**7,019**	**1**	**102**
Persian Gulf[e]	**4,352**	**0**	**0**	**106**	**466**	**0**	**23**	**0**	**0**	**0**

See footnotes at end of table.

Table 36. PAD District I—Imports of Crude Oil and Petroleum Products by Country of Origin,[a] August 1998 (Continued)

(Thousand Barrels)

Country of Origin	Naphtha for Petrochemical Feedstock Use	Other Oils for Petrochemical Feedstock Use	Lubricants	Asphalt and Road Oil	Other Products[c]	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
Arab OPEC	**0**	**0**	**0**	**0**	**0**	**1,613**	**5,965**	**140**	**52**	**192**
Algeria	0	0	0	0	0	1,018	1,018	0	33	33
Saudi Arabia	0	0	0	0	0	595	4,947	140	19	160
Other OPEC	**0**	**0**	**0**	**694**	**0**	**7,756**	**21,257**	**436**	**250**	**686**
Nigeria	0	0	0	0	0	304	8,117	252	10	262
Venezuela	0	0	0	694	0	7,452	13,140	183	240	424
Non OPEC	**301**	**0**	**263**	**316**	**71**	**21,629**	**49,292**	**892**	**698**	**1,590**
Angola	0	0	0	0	0	0	7,324	236	0	236
Argentina	0	0	0	0	0	0	781	25	0	25
Belgium	0	0	0	0	0	9	9	0	(s)	(s)
Brazil	0	0	0	0	0	882	882	0	28	28
Cameroon	0	0	0	0	0	409	409	0	13	13
Canada	5	0	35	201	9	5,128	9,772	150	165	315
China, People's Republic of	0	0	0	0	0	0	638	21	0	21
Colombia	0	0	0	0	0	104	2,309	71	3	74
Congo (Brazzaville)	0	0	0	0	0	0	517	17	0	17
Congo (Kinshasa)[d]	0	0	0	0	0	0	813	26	0	26
Ecuador	0	0	0	0	0	0	1,418	46	0	46
Egypt	0	0	0	0	0	0	695	22	0	22
France	0	0	0	0	0	437	437	0	14	14
Gabon	0	0	0	0	0	0	1,449	47	0	47
Germany, FR	0	0	0	0	5	735	735	0	24	24
Italy	0	0	0	0	0	304	304	0	10	10
Japan	0	0	0	0	3	3	3	0	(s)	(s)
Mexico	0	0	0	115	0	115	1,387	41	4	45
Netherlands	0	0	0	0	0	31	31	0	1	1
Netherlands Antilles	0	0	0	0	0	610	610	0	20	20
Norway	0	0	0	0	0	690	5,475	154	22	177
Portugal	0	0	0	0	0	544	544	0	18	18
Puerto Rico	296	0	228	0	0	524	524	0	17	17
Russia	0	0	0	0	0	4	4	0	(s)	(s)
Spain	0	0	0	0	0	6	6	0	(s)	(s)
Sweden	0	0	0	0	0	2	2	0	(s)	(s)
Trinidad and Tobago	0	0	0	0	0	310	812	16	10	26
United Kingdom	0	0	0	0	0	2,097	2,717	20	68	88
Virgin Islands	0	0	0	0	47	8,637	8,637	0	279	279
Other	0	0	0	0	7	48	48	0	2	2
Total	**301**	**0**	**263**	**1,010**	**71**	**30,998**	**76,514**	**1,468**	**1,000**	**2,468**
Persian Gulf[e]	**0**	**0**	**0**	**0**	**0**	**595**	**4,947**	**140**	**19**	**160**

[a] Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.
[b] Includes crude oil imported for storage in the Strategic Petroleum Reserve.
[c] Includes aviation gasoline, aviation gasoline blending components, miscellaneous products, other hydrocarbons and oxygenates, pentanes plus, petroleum coke, and waxes.
[d] Formerly Zaire.
[e] Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.
(s) = Less than 500 barrels per day.
Note: Totals may not equal sum of components due to independent rounding.
Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 37. PAD District II—Imports of Crude Oil and Petroleum Products by Country of Origin,[a] August 1998
(Thousand Barrels)

Country of Origin	Crude Oil[b]	Liquefied Petroleum Gases	Unfinished Oils	Gasoline Blending Compo-nents	Finished Motor Gasoline	Jet Fuel	Distillate Fuel Oil	Residual Fuel Oil	Kerosene	Special Naphthas
Arab OPEC	**9,511**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Iraq	3,598	0	0	0	0	0	0	0	0	0
Kuwait	866	0	0	0	0	0	0	0	0	0
Saudi Arabia	5,047	0	0	0	0	0	0	0	0	0
Other OPEC	**6,368**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Nigeria	2,815	0	0	0	0	0	0	0	0	0
Venezuela	3,553	0	0	0	0	0	0	0	0	0
Non OPEC	**34,554**	**1,838**	**1**	**0**	**64**	**0**	**99**	**75**	**0**	**34**
Angola	2,342	0	0	0	0	0	0	0	0	0
Canada	26,704	1,838	1	0	64	0	99	75	0	34
Colombia	3,461	0	0	0	0	0	0	0	0	0
Gabon	310	0	0	0	0	0	0	0	0	0
Mexico	550	0	0	0	0	0	0	0	0	0
United Kingdom	1,187	0	0	0	0	0	0	0	0	0
Total	**50,433**	**1,838**	**1**	**0**	**64**	**0**	**99**	**75**	**0**	**34**
Persian Gulf [e]	**9,511**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

See footnotes at end of table.

Table 37. PAD District II—Imports of Crude Oil and Petroleum Products by Country of Origin,[a] August 1998 (Continued)

(Thousand Barrels)

Country of Origin	Naphtha for Petrochemical Feedstock Use	Other Oils for Petrochemical Feedstock Use	Lubricants	Asphalt and Road Oil	Other Products[c]	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
Arab OPEC	**0**	**0**	**0**	**0**	**0**	**0**	**9,511**	**307**	**0**	**307**
Iraq	0	0	0	0	0	0	3,598	116	0	116
Kuwait	0	0	0	0	0	0	866	28	0	28
Saudi Arabia	0	0	0	0	0	0	5,047	163	0	163
Other OPEC	**0**	**0**	**0**	**0**	**0**	**0**	**6,368**	**205**	**0**	**205**
Nigeria	0	0	0	0	0	0	2,815	91	0	91
Venezuela	0	0	0	0	0	0	3,553	115	0	115
Non OPEC	**35**	**0**	**26**	**14**	**41**	**2,227**	**36,781**	**1,115**	**72**	**1,186**
Angola	0	0	0	0	0	0	2,342	76	0	76
Canada	35	0	26	14	41	2,227	28,931	861	72	933
Colombia	0	0	0	0	0	0	3,461	112	0	112
Gabon	0	0	0	0	0	0	310	10	0	10
Mexico	0	0	0	0	0	0	550	18	0	18
United Kingdom	0	0	0	0	0	0	1,187	38	0	38
Total	**35**	**0**	**26**	**14**	**41**	**2,227**	**52,660**	**1,627**	**72**	**1,699**
Persian Gulf[e]	**0**	**0**	**0**	**0**	**0**	**0**	**9,511**	**307**	**0**	**307**

[a] Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.
[b] Includes crude oil imported for storage in the Strategic Petroleum Reserve.
[c] Includes aviation gasoline, aviation gasoline blending components, miscellaneous products, other hydrocarbons and oxygenates, pentanes plus, petroleum coke, and waxes.
[d] Formerly Zaire.
[e] Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.
(s) = Less than 500 barrels per day.
Note: Totals may not equal sum of components due to independent rounding.
Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 38. PAD District III—Imports of Crude Oil and Petroleum Products by Country of Origin,[a] August 1998
(Thousand Barrels)

Country of Origin	Crude Oil[b]	Liquefied Petroleum Gases	Unfinished Oils	Gasoline Blending Compo-nents	Finished Motor Gasoline	Jet Fuel	Distillate Fuel Oil	Residual Fuel Oil	Kerosene	Special Naphthas
Arab OPEC	**57,576**	**2,067**	**501**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Algeria	296	2,067	501	0	0	0	0	0	0	0
Iraq	15,696	0	0	0	0	0	0	0	0	0
Kuwait	6,701	0	0	0	0	0	0	0	0	0
Saudi Arabia	34,883	0	0	0	0	0	0	0	0	0
Other OPEC	**43,910**	**738**	**1,720**	**0**	**237**	**0**	**0**	**0**	**0**	**0**
Indonesia	333	0	381	0	0	0	0	0	0	0
Nigeria	11,875	0	0	0	0	0	0	0	0	0
Venezuela	31,702	738	1,339	0	237	0	0	0	0	0
Non OPEC	**62,554**	**543**	**3,483**	**121**	**0**	**0**	**0**	**0**	**0**	**70**
Angola	3,407	0	0	0	0	0	0	0	0	0
Argentina	714	0	233	0	0	0	0	0	0	0
Australia	0	0	0	0	0	0	0	0	0	0
Belgium	0	0	759	0	0	0	0	0	0	0
Brunei	410	0	0	0	0	0	0	0	0	0
Canada	0	543	318	0	0	0	0	0	0	0
Colombia	5,394	0	0	0	0	0	0	0	0	0
Congo (Brazzaville)	1,397	0	0	0	0	0	0	0	0	0
Ecuador	691	0	0	0	0	0	0	0	0	0
France	0	0	43	0	0	0	0	0	0	0
Gabon	1,896	0	0	0	0	0	0	0	0	0
Guatemala	895	0	0	0	0	0	0	0	0	0
Japan	0	0	0	0	0	0	0	0	0	0
Korea, Republic of	0	0	0	0	0	0	0	0	0	70
Mexico	32,690	0	0	0	0	0	0	0	0	0
Netherlands	0	0	192	121	0	0	0	0	0	0
Netherlands Antilles	0	0	660	0	0	0	0	0	0	0
Norway	3,279	0	138	0	0	0	0	0	0	0
Peru	346	0	0	0	0	0	0	0	0	0
Puerto Rico	0	0	0	0	0	0	0	0	0	0
Singapore	117	0	13	0	0	0	0	0	0	0
Spain	0	0	0	0	0	0	0	0	0	0
Trinidad and Tobago	1,129	0	0	0	0	0	0	0	0	0
United Kingdom	7,325	0	283	0	0	0	0	0	0	0
Yemen	956	0	0	0	0	0	0	0	0	0
Other	1,908	0	844	0	0	0	0	0	0	0
Total	**164,040**	**3,348**	**5,704**	**121**	**237**	**0**	**0**	**0**	**0**	**70**
Persian Gulf[e]	**57,280**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

See footnotes at end of table.

Table 38. PAD District III—Imports of Crude Oil and Petroleum Products by Country of Origin,[a] August 1998 (Continued)

(Thousand Barrels)

Country of Origin	Naphtha for Petrochemical Feedstock Use	Other Oils for Petrochemical Feedstock Use	Lubricants	Asphalt and Road Oil	Other Products[c]	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
Arab OPEC	**0**	**3,053**	**0**	**0**	**1,252**	**6,873**	**64,449**	**1,857**	**222**	**2,079**
Algeria	0	3,053	0	0	1,252	6,873	7,169	10	222	231
Iraq	0	0	0	0	0	0	15,696	506	0	506
Kuwait	0	0	0	0	0	0	6,701	216	0	216
Saudi Arabia	0	0	0	0	0	0	34,883	1,125	0	1,125
Other OPEC	**363**	**0**	**0**	**0**	**0**	**3,058**	**46,968**	**1,416**	**99**	**1,515**
Indonesia	0	0	0	0	0	381	714	11	12	23
Nigeria	0	0	0	0	0	0	11,875	383	0	383
Venezuela	363	0	0	0	0	2,677	34,379	1,023	86	1,109
Non OPEC	**1,160**	**902**	**11**	**0**	**7**	**6,297**	**68,851**	**2,018**	**203**	**2,221**
Angola	0	0	0	0	0	0	3,407	110	0	110
Argentina	0	0	0	0	0	233	947	23	8	31
Australia	0	658	0	0	0	658	658	0	21	21
Belgium	0	0	0	0	0	759	759	0	24	24
Brunei	0	0	0	0	0	0	410	13	0	13
Canada	271	0	0	0	0	1,132	1,132	0	37	37
Colombia	0	0	0	0	0	0	5,394	174	0	174
Congo (Brazzaville)	0	0	0	0	0	0	1,397	45	0	45
Ecuador	0	0	0	0	0	0	691	22	0	22
France	294	0	11	0	0	348	348	0	11	11
Gabon	0	0	0	0	0	0	1,896	61	0	61
Guatemala	0	0	0	0	0	0	895	29	0	29
Japan	4	0	0	0	5	9	9	0	(s)	(s)
Korea, Republic of	0	0	0	0	0	70	70	0	2	2
Mexico	323	0	0	0	0	323	33,013	1,055	10	1,065
Netherlands	0	0	0	0	0	313	313	0	10	10
Netherlands Antilles	0	0	0	0	0	660	660	0	21	21
Norway	0	0	0	0	0	138	3,417	106	4	110
Peru	0	0	0	0	0	0	346	11	0	11
Puerto Rico	174	0	0	0	0	174	174	0	6	6
Singapore	0	0	0	0	0	13	130	4	(s)	4
Spain	0	244	0	0	0	244	244	0	8	8
Trinidad and Tobago	0	0	0	0	0	0	1,129	36	0	36
United Kingdom	0	0	0	0	0	283	7,608	236	9	245
Yemen	0	0	0	0	0	0	956	31	0	31
Other	94	0	0	0	2	940	2,848	62	30	92
Total	**1,523**	**3,955**	**11**	**0**	**1,259**	**16,228**	**180,268**	**5,292**	**523**	**5,815**
Persian Gulf[e]	**0**	**0**	**0**	**0**	**0**	**0**	**57,280**	**1,848**	**0**	**1,848**

[a] Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.
[b] Includes crude oil imported for storage in the Strategic Petroleum Reserve.
[c] Includes aviation gasoline, aviation gasoline blending components, miscellaneous products, other hydrocarbons and oxygenates, pentanes plus, petroleum coke, and waxes.
[d] Formerly Zaire.
[e] Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.
(s) = Less than 500 barrels per day.
Note: Totals may not equal sum of components due to independent rounding.
Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 39. PAD Districts IV and V—Imports of Crude Oil and Petroleum Products by Country of Origin,[a] August 1998
(Thousand Barrels)

Country of Origin	Crude Oil[b]	Liquefied Petroleum Gases	Unfinished Oils	Gasoline Blending Compo-nents	Finished Motor Gasoline	Jet Fuel	Distillate Fuel Oil	Residual Fuel Oil	Kerosene	Special Naphthas
	PAD District IV									
Non OPEC	**4,429**	**126**	**0**	**0**	**18**	**0**	**204**	**0**	**0**	**0**
Canada	4,429	126	0	0	18	0	204	0	0	0
Total	**4,429**	**126**	**0**	**0**	**18**	**0**	**204**	**0**	**0**	**0**
	PAD District V									
Arab OPEC	**4,910**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Iraq	2,799	0	0	0	0	0	0	0	0	0
Kuwait	894	0	0	0	0	0	0	0	0	0
Saudi Arabia	1,217	0	0	0	0	0	0	0	0	0
Other OPEC	**1,819**	**0**	**168**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Indonesia	946	0	168	0	0	0	0	0	0	0
Venezuela	873	0	0	0	0	0	0	0	0	0
Non OPEC	**12,288**	**4**	**389**	**0**	**15**	**508**	**15**	**0**	**0**	**0**
Argentina	782	0	0	0	0	0	0	0	0	0
Australia	646	0	0	0	0	0	0	0	0	0
Canada	2,914	4	0	0	15	3	15	0	0	0
China, People's Republic of	1,124	0	0	0	0	0	0	0	0	0
Ecuador	2,778	0	0	0	0	0	0	0	0	0
Korea, Republic of	0	0	0	0	0	505	0	0	0	0
Malaysia	119	0	230	0	0	0	0	0	0	0
Mexico	785	0	0	0	0	0	0	0	0	0
Peru	738	0	0	0	0	0	0	0	0	0
Singapore	0	0	159	0	0	0	0	0	0	0
Other	2,402	0	0	0	0	0	0	0	0	0
Total	**19,017**	**4**	**557**	**0**	**15**	**508**	**15**	**0**	**0**	**0**
Persian Gulf[e]	**4,910**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

See footnotes at end of table.

Table 39. PAD Districts IV and V—Imports of Crude Oil and Petroleum Products by Country of Origin,[a] August 1998 (Continued)

(Thousand Barrels)

Country of Origin	Naphtha for Petrochemical Feedstock Use	Other Oils for Petrochemical Feedstock Use	Lubricants	Asphalt and Road Oil	Other Products[c]	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
PAD District IV										
Non OPEC	**0**	**0**	**0**	**6**	**193**	**547**	**4,976**	**143**	**18**	**161**
Canada	0	0	0	6	193	547	4,976	143	18	161
Total	**0**	**0**	**0**	**6**	**193**	**547**	**4,976**	**143**	**18**	**161**
PAD District V										
Arab OPEC	**0**	**0**	**0**	**0**	**404**	**404**	**5,314**	**158**	**13**	**171**
Iraq	0	0	0	0	0	0	2,799	90	0	90
Kuwait	0	0	0	0	0	0	894	29	0	29
Saudi Arabia	0	0	0	0	404	404	1,621	39	13	52
Other OPEC	**0**	**0**	**0**	**0**	**226**	**394**	**2,213**	**59**	**13**	**71**
Indonesia	0	0	0	0	0	168	1,114	31	5	36
Venezuela	0	0	0	0	226	226	1,099	28	7	35
Non OPEC	**24**	**0**	**0**	**8**	**511**	**1,474**	**13,762**	**396**	**48**	**444**
Argentina	0	0	0	0	0	0	782	25	0	25
Australia	0	0	0	0	0	0	646	21	0	21
Canada	0	0	0	8	420	465	3,379	94	15	109
China, People's Republic of	0	0	0	0	0	0	1,124	36	0	36
Ecuador	0	0	0	0	0	0	2,778	90	0	90
Korea, Republic of	24	0	0	0	86	615	615	0	20	20
Malaysia	0	0	0	0	0	230	349	4	7	11
Mexico	0	0	0	0	5	5	790	25	(s)	25
Peru	0	0	0	0	0	0	738	24	0	24
Singapore	0	0	0	0	0	159	159	0	5	5
Other	0	0	0	0	0	0	2,402	77	0	77
Total	**24**	**0**	**0**	**8**	**1,141**	**2,272**	**21,289**	**613**	**73**	**687**
Persian Gulf [e]	**0**	**0**	**0**	**0**	**404**	**404**	**5,314**	**158**	**13**	**171**

[a] Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.
[b] Includes crude oil imported for storage in the Strategic Petroleum Reserve.
[c] Includes aviation gasoline, aviation gasoline blending components, miscellaneous products, other hydrocarbons and oxygenates, pentanes plus, petroleum coke, and waxes.
[d] Formerly Zaire.
[e] Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.
(s) = Less than 500 barrels per day.
Note: Totals may not equal sum of components due to independent rounding.
Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin,[a] January-August 1998

(Thousand Barrels)

Country of Origin	Crude Oil[b]	Liquefied Petroleum Gases	Unfinished Oils	Gasoline Blending Compo-nents	Finished Motor Gasoline	Jet Fuel	Distillate Fuel Oil	Residual Fuel Oil	Kerosene	Special Naphthas
Arab OPEC	**476,085**	**17,392**	**13,486**	**1,114**	**5,345**	**0**	**247**	**9,819**	**0**	**0**
Algeria	3,392	16,244	6,036	1,008	0	0	0	8,450	0	0
Iraq	55,082	0	0	0	0	0	0	0	0	0
Kuwait	73,910	0	0	0	0	0	0	0	0	0
Qatar	504	0	0	0	0	0	0	0	0	0
Saudi Arabia	342,202	1,148	7,450	106	5,345	0	247	1,369	0	0
United Arab Emirates	995	0	0	0	0	0	0	0	0	0
Other OPEC	**523,526**	**3,471**	**18,375**	**8,466**	**11,932**	**7,281**	**10,275**	**11,035**	**5**	**50**
Indonesia	8,486	0	649	0	0	0	0	999	0	0
Nigeria	182,231	0	0	71	64	0	0	897	0	50
Venezuela	332,809	3,471	17,726	8,395	11,868	7,281	10,275	9,139	5	0
Non OPEC	**1,086,491**	**32,639**	**31,749**	**37,668**	**55,307**	**11,072**	**36,145**	**29,588**	**201**	**1,635**
Angola	105,279	0	0	0	0	0	0	0	0	260
Argentina	17,634	0	233	2,890	496	0	0	0	0	0
Australia	7,684	0	104	0	0	0	0	0	0	0
Bahama Islands	0	0	0	0	0	0	0	81	0	0
Belgium	0	0	4,195	2,214	855	0	0	738	0	0
Brazil	0	0	0	2,540	1,531	0	0	819	0	0
Brunei	2,632	0	0	0	0	0	0	0	0	0
Cameroon	0	0	0	0	0	0	0	618	0	0
Canada	314,765	28,691	2,063	1,062	13,715	374	14,325	5,380	201	1,305
China, People's Republic of	13,933	0	0	0	0	0	0	0	0	0
Colombia	73,892	0	0	218	0	104	0	270	0	0
Congo (Brazzaville)	10,553	0	0	0	0	0	0	0	0	0
Congo (Kinshasa)[d]	5,217	0	0	0	0	0	0	0	0	0
Denmark	0	0	0	0	221	0	0	0	0	0
Ecuador	22,948	0	0	407	0	0	0	201	0	0
Egypt	2,759	0	0	58	0	0	0	0	0	0
France	0	0	1,435	3,584	2,714	0	0	0	0	0
Gabon	51,462	0	0	0	0	0	0	0	0	0
Germany, FR	0	0	294	639	165	0	0	2,288	0	0
Greece	0	0	0	0	0	0	0	0	0	0
Guatemala	5,946	0	0	0	0	0	0	0	0	0
Ireland	0	0	0	71	0	0	0	0	0	0
Italy	0	0	140	1,855	1,027	0	0	490	0	0
Japan	0	0	40	219	0	0	130	0	0	0
Korea, Republic of	0	0	0	311	0	1,318	134	147	0	70
Malaysia	5,442	0	2,172	0	0	0	0	0	0	0
Mexico	320,568	0	692	99	0	116	0	0	0	0
Netherlands	0	0	633	1,805	716	0	0	513	0	0
Netherlands Antilles	1,000	0	8,308	54	0	3,114	0	2,412	0	0
New Zealand	509	0	0	0	0	0	0	0	0	0
Norway	54,852	2,101	352	0	611	0	0	0	0	0
Oman	0	0	512	0	0	0	0	0	0	0
Peru	10,214	0	0	0	0	0	0	203	0	0
Portugal	0	0	0	0	2,652	0	0	0	0	0
Puerto Rico	0	0	0	0	0	0	0	0	0	0
Romania	0	0	0	685	0	0	208	0	0	0
Russia	3,147	0	94	0	366	0	0	0	0	0
Singapore	117	0	2,546	0	109	597	0	49	0	0
Spain	0	0	280	1,359	904	0	0	582	0	0
Sweden	0	0	0	233	2	0	0	0	0	0
Trinidad and Tobago	13,129	0	0	359	699	0	275	295	0	0
Tunisia	0	0	0	0	0	0	0	0	0	0
Turkey	0	0	144	0	0	0	0	0	0	0
United Kingdom	32,570	1,847	283	12,045	1,223	0	0	2,183	0	0
Virgin Islands	0	0	5,271	2,285	26,900	5,449	21,073	12,158	0	0
Yemen	1,628	0	0	0	0	0	0	0	0	0
Other	8,611	0	1,958	2,676	401	0	0	161	0	0
Total	**2,086,102**	**53,502**	**63,610**	**47,248**	**72,584**	**18,353**	**46,667**	**50,442**	**206**	**1,685**
Persian Gulf[e]	**472,693**	**1,148**	**7,976**	**106**	**5,345**	**0**	**247**	**1,369**	**0**	**0**

See footnotes at end of table.

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin,[a] January-August 1998 (Continued)

(Thousand Barrels)

Country of Origin	Naphtha for Petrochemical Feedstock Use	Other Oils for Petrochemical Feedstock Use	Lubricants	Asphalt and Road Oil	Other Products[c]	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
Arab OPEC	**1,488**	**33,871**	**0**	**0**	**10,950**	**93,712**	**569,797**	**1,959**	**386**	**2,345**
Algeria	812	32,944	0	0	5,294	70,788	74,180	14	291	305
Iraq	0	0	0	0	0	0	55,082	227	0	227
Kuwait	0	0	0	0	0	0	73,910	304	0	304
Qatar	0	927	0	0	0	927	1,431	2	4	6
Saudi Arabia	676	0	0	0	5,656	21,997	364,199	1,408	91	1,499
United Arab Emirates	0	0	0	0	0	0	995	4	0	4
Other OPEC	**2,402**	**370**	**0**	**3,591**	**1,793**	**79,046**	**602,572**	**2,154**	**325**	**2,480**
Indonesia	0	0	0	0	0	1,648	10,134	35	7	42
Nigeria	105	0	0	0	0	1,187	183,418	750	5	755
Venezuela	2,297	370	0	3,591	1,793	76,211	409,020	1,370	314	1,683
Non OPEC	**11,151**	**7,791**	**2,281**	**2,761**	**8,854**	**268,842**	**1,355,333**	**4,471**	**1,106**	**5,578**
Angola	0	0	0	0	0	260	105,539	433	1	434
Argentina	633	0	0	0	0	4,252	21,886	73	17	90
Australia	300	4,994	0	0	0	5,398	13,082	32	22	54
Bahama Islands	0	0	0	0	0	81	81	0	(s)	(s)
Belgium	18	176	0	0	0	8,196	8,196	0	34	34
Brazil	219	0	0	0	232	5,341	5,341	0	22	22
Brunei	0	155	0	0	0	155	2,787	11	1	11
Cameroon	0	0	0	0	0	618	618	0	3	3
Canada	1,167	0	543	1,726	5,380	75,932	390,697	1,295	312	1,608
China, People's Republic of	0	0	0	0	0	0	13,933	57	0	57
Colombia	202	0	0	0	0	794	74,686	304	3	307
Congo (Brazzaville)	0	0	0	0	0	0	10,553	43	0	43
Congo (Kinshasa)[d]	0	0	0	0	0	0	5,217	21	0	21
Denmark	0	0	0	0	0	221	221	0	1	1
Ecuador	98	0	0	0	0	706	23,654	94	3	97
Egypt	70	0	0	0	0	128	2,887	11	1	12
France	828	0	47	0	890	9,498	9,498	0	39	39
Gabon	0	0	0	0	0	0	51,462	212	0	212
Germany, FR	231	0	0	0	62	3,679	3,679	0	15	15
Greece	311	0	0	0	0	311	311	0	1	1
Guatemala	0	0	0	0	0	0	5,946	24	0	24
Ireland	0	0	0	0	0	71	71	0	(s)	(s)
Italy	75	0	0	0	0	3,587	3,587	0	15	15
Japan	32	0	0	0	54	475	475	0	2	2
Korea, Republic of	99	0	0	0	399	2,478	2,478	0	10	10
Malaysia	0	0	0	0	0	2,172	7,614	22	9	31
Mexico	2,571	632	0	1,035	18	5,163	325,731	1,319	21	1,340
Netherlands	715	0	0	0	986	5,368	5,368	0	22	22
Netherlands Antilles	97	1,067	0	0	0	15,052	16,052	4	62	66
New Zealand	0	0	0	0	0	0	509	2	0	2
Norway	0	350	0	0	0	3,414	58,266	226	14	240
Oman	0	0	0	0	0	512	512	0	2	2
Peru	0	0	0	0	0	203	10,417	42	1	43
Portugal	0	0	0	0	0	2,652	2,652	0	11	11
Puerto Rico	2,024	0	1,691	0	0	3,715	3,715	0	15	15
Romania	0	0	0	0	0	893	893	0	4	4
Russia	0	0	0	0	0	460	3,607	13	2	15
Singapore	0	0	0	0	208	3,509	3,626	(s)	14	15
Spain	273	244	0	0	0	3,642	3,642	0	15	15
Sweden	0	0	0	0	0	235	235	0	1	1
Trinidad and Tobago	0	0	0	0	0	1,628	14,757	54	7	61
Tunisia	222	0	0	0	0	222	222	0	1	1
Turkey	288	173	0	0	0	605	605	0	2	2
United Kingdom	0	0	0	0	0	17,581	50,151	134	72	206
Virgin Islands	46	0	0	0	571	73,753	73,753	0	304	304
Yemen	0	0	0	0	0	0	1,628	7	0	7
Other	632	0	0	0	54	5,882	14,493	35	24	60
Total	**15,041**	**42,032**	**2,281**	**6,352**	**21,597**	**441,600**	**2,527,702**	**8,585**	**1,817**	**10,402**
Persian Gulf[e]	**676**	**927**	**0**	**0**	**5,656**	**23,450**	**496,143**	**1,945**	**97**	**2,042**

[a] Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.
[b] Includes crude oil imported for storage in the Strategic Petroleum Reserve.
[c] Includes aviation gasoline, aviation gasoline blending components, miscellaneous products, other hydrocarbons and oxygenates, pentanes plus, petroleum coke, and waxes.
[d] Formerly Zaire.
[e] Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.
(s) = Less than 500 barrels per day.
Note: Totals may not equal sum of components due to independent rounding.
Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 41. PAD District I—Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin,[a] January-August 1998
(Thousand Barrels)

Country of Origin	Crude Oil[b]	Liquefied Petroleum Gases	Unfinished Oils	Gasoline Blending Compo-nents	Finished Motor Gasoline	Jet Fuel	Distillate Fuel Oil	Residual Fuel Oil	Kerosene	Special Naphthas
Arab OPEC	**38,251**	**2,830**	**0**	**1,114**	**5,325**	**0**	**247**	**9,376**	**0**	**0**
Algeria	0	2,830	0	1,008	0	0	0	8,450	0	0
Saudi Arabia	38,251	0	0	106	5,325	0	247	926	0	0
Other OPEC	**128,762**	**0**	**280**	**8,259**	**11,644**	**7,281**	**10,275**	**9,886**	**5**	**0**
Nigeria	78,254	0	0	71	13	0	0	897	0	0
Venezuela	50,508	0	280	8,188	11,631	7,281	10,275	8,989	5	0
Non OPEC	**209,821**	**3,103**	**6,529**	**35,197**	**51,654**	**9,439**	**33,643**	**27,881**	**201**	**781**
Angola	61,310	0	0	0	0	0	0	0	0	0
Argentina	1,971	0	0	2,890	496	0	0	0	0	0
Belgium	0	0	0	2,188	855	0	0	738	0	0
Brazil	0	0	0	2,504	1,531	0	0	819	0	0
Brunei	122	0	0	0	0	0	0	0	0	0
Cameroon	0	0	0	0	0	0	0	618	0	0
Canada	23,530	1,752	578	1,056	12,298	358	12,087	5,133	201	781
China, People's Republic of	3,730	0	0	0	0	0	0	0	0	0
Colombia	15,720	0	0	0	0	104	0	270	0	0
Congo (Brazzaville)	3,715	0	0	0	0	0	0	0	0	0
Congo (Kinshasa)[d]	3,173	0	0	0	0	0	0	0	0	0
Denmark	0	0	0	0	221	0	0	0	0	0
Ecuador	7,935	0	0	0	0	0	0	201	0	0
Egypt	2,759	0	0	0	0	0	0	0	0	0
France	0	0	272	3,578	2,700	0	0	0	0	0
Gabon	25,561	0	0	0	0	0	0	0	0	0
Germany, FR	0	0	0	635	165	0	0	1,457	0	0
Ireland	0	0	0	71	0	0	0	0	0	0
Italy	0	0	0	1,436	1,027	0	0	490	0	0
Japan	0	0	0	219	0	0	0	0	0	0
Mexico	7,064	0	0	93	0	107	0	0	0	0
Netherlands	0	0	0	1,466	677	0	0	438	0	0
Netherlands Antilles	0	0	408	54	0	2,825	0	2,135	0	0
Norway	36,445	663	0	0	611	0	0	0	0	0
Peru	1,045	0	0	0	0	0	0	203	0	0
Portugal	0	0	0	0	1,027	0	0	0	0	0
Puerto Rico	0	0	0	0	0	0	0	0	0	0
Romania	0	0	0	685	0	0	208	0	0	0
Russia	0	0	0	0	366	0	0	0	0	0
Singapore	0	0	0	0	0	596	0	0	0	0
Spain	0	0	0	1,359	904	0	0	582	0	0
Sweden	0	0	0	233	2	0	0	0	0	0
Trinidad and Tobago	2,998	0	0	359	699	0	275	295	0	0
United Kingdom	12,091	688	0	12,045	1,223	0	0	2,183	0	0
Virgin Islands	0	0	5,271	2,152	26,616	5,449	21,073	12,158	0	0
Other	652	0	0	2,174	236	0	0	161	0	0
Total	**376,834**	**5,933**	**6,809**	**44,570**	**68,623**	**16,720**	**44,165**	**47,143**	**206**	**781**
Persian Gulf[e]	**38,251**	**0**	**0**	**106**	**5,325**	**0**	**247**	**926**	**0**	**0**

See footnotes at end of table.

Table 41. PAD District I—Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin,[a] January-August 1998 (Continued)
(Thousand Barrels)

Country of Origin	Naphtha for Petrochemical Feedstock Use	Other Oils for Petrochemical Feedstock Use	Lubricants	Asphalt and Road Oil	Other Products[c]	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
Arab OPEC	**0**	**0**	**0**	**0**	**456**	**19,348**	**57,599**	**157**	**80**	**237**
Algeria	0	0	0	0	0	12,288	12,288	0	51	51
Saudi Arabia	0	0	0	0	456	7,060	45,311	157	29	186
Other OPEC	**105**	**0**	**0**	**3,370**	**741**	**51,846**	**180,608**	**530**	**213**	**743**
Nigeria	105	0	0	0	0	1,086	79,340	322	4	327
Venezuela	0	0	0	3,370	741	50,760	101,268	208	209	417
Non OPEC	**1,967**	**0**	**2,046**	**2,571**	**2,857**	**177,869**	**387,690**	**863**	**732**	**1,595**
Angola	0	0	0	0	0	0	61,310	252	0	252
Argentina	0	0	0	0	0	3,386	5,357	8	14	22
Belgium	0	0	0	0	0	3,781	3,781	0	16	16
Brazil	0	0	0	0	210	5,064	5,064	0	21	21
Brunei	0	0	0	0	0	0	122	1	0	1
Cameroon	0	0	0	0	0	618	618	0	3	3
Canada	252	0	355	1,536	74	36,461	59,991	97	150	247
China, People's Republic of	0	0	0	0	0	0	3,730	15	0	15
Colombia	0	0	0	0	0	374	16,094	65	2	66
Congo (Brazzaville)	0	0	0	0	0	0	3,715	15	0	15
Congo (Kinshasa)[d]	0	0	0	0	0	0	3,173	13	0	13
Denmark	0	0	0	0	0	221	221	0	1	1
Ecuador	0	0	0	0	0	201	8,136	33	1	33
Egypt	0	0	0	0	0	0	2,759	11	0	11
France	0	0	0	0	880	7,430	7,430	0	31	31
Gabon	0	0	0	0	0	0	25,561	105	0	105
Germany, FR	0	0	0	0	57	2,314	2,314	0	10	10
Ireland	0	0	0	0	0	71	71	0	(s)	(s)
Italy	0	0	0	0	0	2,953	2,953	0	12	12
Japan	14	0	0	0	33	266	266	0	1	1
Mexico	0	0	0	1,035	0	1,235	8,299	29	5	34
Netherlands	0	0	0	0	986	3,567	3,567	0	15	15
Netherlands Antilles	0	0	0	0	0	5,422	5,422	0	22	22
Norway	0	0	0	0	0	1,274	37,719	150	5	155
Peru	0	0	0	0	0	203	1,248	4	1	5
Portugal	0	0	0	0	0	1,027	1,027	0	4	4
Puerto Rico	1,441	0	1,691	0	0	3,132	3,132	0	13	13
Romania	0	0	0	0	0	893	893	0	4	4
Russia	0	0	0	0	0	366	366	0	2	2
Singapore	0	0	0	0	0	596	596	0	2	2
Spain	0	0	0	0	0	2,845	2,845	0	12	12
Sweden	0	0	0	0	0	235	235	0	1	1
Trinidad and Tobago	0	0	0	0	0	1,628	4,626	12	7	19
United Kingdom	0	0	0	0	0	16,139	28,230	50	66	116
Virgin Islands	0	0	0	0	571	73,290	73,290	0	302	302
Other	260	0	0	0	46	2,877	3,529	3	12	15
Total	**2,072**	**0**	**2,046**	**5,941**	**4,054**	**249,063**	**625,897**	**1,551**	**1,025**	**2,576**
Persian Gulf[e]	**0**	**0**	**0**	**0**	**456**	**7,060**	**45,311**	**157**	**29**	**186**

[a] Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.
[b] Includes crude oil imported for storage in the Strategic Petroleum Reserve.
[c] Includes aviation gasoline, aviation gasoline blending components, miscellaneous products, other hydrocarbons and oxygenates, pentanes plus, petroleum coke, and waxes.
[d] Formerly Zaire.
[e] Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.
(s) = Less than 500 barrels per day.
Note: Totals may not equal sum of components due to independent rounding.
Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 42. PAD District II—Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin,[a] January-August 1998
(Thousand Barrels)

Country of Origin	Crude Oil[b]	Liquefied Petroleum Gases	Unfinished Oils	Gasoline Blending Compo-nents	Finished Motor Gasoline	Jet Fuel	Distillate Fuel Oil	Residual Fuel Oil	Kerosene	Special Naphthas
Arab OPEC	**57,657**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Iraq	5,692	0	0	0	0	0	0	0	0	0
Kuwait	7,463	0	0	0	0	0	0	0	0	0
Qatar	504	0	0	0	0	0	0	0	0	0
Saudi Arabia	43,998	0	0	0	0	0	0	0	0	0
Other OPEC	**46,937**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Nigeria	21,627	0	0	0	0	0	0	0	0	0
Venezuela	25,310	0	0	0	0	0	0	0	0	0
Non OPEC	**298,331**	**20,355**	**185**	**6**	**1,110**	**0**	**800**	**247**	**0**	**300**
Angola	18,038	0	0	0	0	0	0	0	0	0
Argentina	241	0	0	0	0	0	0	0	0	0
Brunei	1,077	0	0	0	0	0	0	0	0	0
Canada	226,676	20,355	185	6	1,110	0	800	247	0	300
Colombia	19,958	0	0	0	0	0	0	0	0	0
Congo (Brazzaville)	401	0	0	0	0	0	0	0	0	0
Congo (Kinshasa)[d]	701	0	0	0	0	0	0	0	0	0
Ecuador	338	0	0	0	0	0	0	0	0	0
Gabon	310	0	0	0	0	0	0	0	0	0
Mexico	22,286	0	0	0	0	0	0	0	0	0
Norway	2,699	0	0	0	0	0	0	0	0	0
Peru	303	0	0	0	0	0	0	0	0	0
United Kingdom	5,303	0	0	0	0	0	0	0	0	0
Total	**402,925**	**20,355**	**185**	**6**	**1,110**	**0**	**800**	**247**	**0**	**300**
Persian Gulf[e]	**57,657**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

See footnotes at end of table.

Table 42. PAD District II—Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin,[a] January-August 1998 (Continued)
(Thousand Barrels)

Country of Origin	Naphtha for Petrochemical Feedstock Use	Other Oils for Petrochemical Feedstock Use	Lubricants	Asphalt and Road Oil	Other Products[c]	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
Arab OPEC	**0**	**0**	**0**	**0**	**0**	**0**	**57,657**	**237**	**0**	**237**
Iraq	0	0	0	0	0	0	5,692	23	0	23
Kuwait	0	0	0	0	0	0	7,463	31	0	31
Qatar	0	0	0	0	0	0	504	2	0	2
Saudi Arabia	0	0	0	0	0	0	43,998	181	0	181
Other OPEC	**0**	**0**	**0**	**0**	**0**	**0**	**46,937**	**193**	**0**	**193**
Nigeria	0	0	0	0	0	0	21,627	89	0	89
Venezuela	0	0	0	0	0	0	25,310	104	0	104
Non OPEC	**274**	**0**	**188**	**115**	**368**	**23,948**	**322,279**	**1,228**	**99**	**1,326**
Angola	0	0	0	0	0	0	18,038	74	0	74
Argentina	0	0	0	0	0	0	241	1	0	1
Brunei	0	0	0	0	0	0	1,077	4	0	4
Canada	274	0	188	115	368	23,948	250,624	933	99	1,031
Colombia	0	0	0	0	0	0	19,958	82	0	82
Congo (Brazzaville)	0	0	0	0	0	0	401	2	0	2
Congo (Kinshasa)[d]	0	0	0	0	0	0	701	3	0	3
Ecuador	0	0	0	0	0	0	338	1	0	1
Gabon	0	0	0	0	0	0	310	1	0	1
Mexico	0	0	0	0	0	0	22,286	92	0	92
Norway	0	0	0	0	0	0	2,699	11	0	11
Peru	0	0	0	0	0	0	303	1	0	1
United Kingdom	0	0	0	0	0	0	5,303	22	0	22
Total	**274**	**0**	**188**	**115**	**368**	**23,948**	**426,873**	**1,658**	**99**	**1,757**
Persian Gulf[e]	**0**	**0**	**0**	**0**	**0**	**0**	**57,657**	**237**	**0**	**237**

[a] Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.
[b] Includes crude oil imported for storage in the Strategic Petroleum Reserve.
[c] Includes aviation gasoline, aviation gasoline blending components, miscellaneous products, other hydrocarbons and oxygenates, pentanes plus, petroleum coke, and waxes.
[d] Formerly Zaire.
[e] Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.
(s) = Less than 500 barrels per day.
Note: Totals may not equal sum of components due to independent rounding.
Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 43. PAD District III—Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin,[a] January-August 1998
(Thousand Barrels)

Country of Origin	Crude Oil[b]	Liquefied Petroleum Gases	Unfinished Oils	Gasoline Blending Compo-nents	Finished Motor Gasoline	Jet Fuel	Distillate Fuel Oil	Residual Fuel Oil	Kerosene	Special Naphthas
Arab OPEC	**349,724**	**14,562**	**13,486**	**0**	**0**	**0**	**0**	**443**	**0**	**0**
Algeria	3,392	13,414	6,036	0	0	0	0	0	0	0
Iraq	36,612	0	0	0	0	0	0	0	0	0
Kuwait	56,862	0	0	0	0	0	0	0	0	0
Qatar	0	0	0	0	0	0	0	0	0	0
Saudi Arabia	252,462	1,148	7,450	0	0	0	0	443	0	0
United Arab Emirates	396	0	0	0	0	0	0	0	0	0
Other OPEC	**336,106**	**3,471**	**17,464**	**207**	**237**	**0**	**0**	**150**	**0**	**50**
Indonesia	333	0	381	0	0	0	0	0	0	0
Nigeria	82,030	0	0	0	0	0	0	0	0	50
Venezuela	253,743	3,471	17,083	207	237	0	0	150	0	0
Non OPEC	**469,528**	**7,588**	**20,183**	**1,360**	**1,625**	**9**	**0**	**1,264**	**0**	**551**
Angola	25,931	0	0	0	0	0	0	0	0	260
Argentina	10,636	0	233	0	0	0	0	0	0	0
Australia	457	0	104	0	0	0	0	0	0	0
Bahama Islands	0	0	0	0	0	0	0	81	0	0
Belgium	0	0	4,195	0	0	0	0	0	0	0
Brazil	0	0	0	36	0	0	0	0	0	0
Brunei	1,433	0	0	0	0	0	0	0	0	0
Canada	4,417	4,991	1,193	0	0	0	0	0	0	221
China, People's Republic of	3,430	0	0	0	0	0	0	0	0	0
Colombia	38,214	0	0	218	0	0	0	0	0	0
Congo (Brazzaville)	6,437	0	0	0	0	0	0	0	0	0
Congo (Kinshasa)[d]	1,343	0	0	0	0	0	0	0	0	0
Ecuador	4,029	0	0	227	0	0	0	0	0	0
Egypt	0	0	0	58	0	0	0	0	0	0
France	0	0	1,163	0	0	0	0	0	0	0
Gabon	25,591	0	0	0	0	0	0	0	0	0
Germany, FR	0	0	294	0	0	0	0	831	0	0
Greece	0	0	0	0	0	0	0	0	0	0
Guatemala	5,946	0	0	0	0	0	0	0	0	0
Italy	0	0	140	419	0	0	0	0	0	0
Japan	0	0	0	0	0	0	0	0	0	0
Korea, Republic of	0	0	0	0	0	0	0	0	0	70
Malaysia	3,111	0	0	0	0	0	0	0	0	0
Mexico	285,688	0	692	6	0	9	0	0	0	0
Netherlands	0	0	633	263	0	0	0	75	0	0
Netherlands Antilles	1,000	0	7,900	0	0	0	0	277	0	0
Norway	15,708	1,438	352	0	0	0	0	0	0	0
Oman	0	0	512	0	0	0	0	0	0	0
Peru	2,742	0	0	0	0	0	0	0	0	0
Portugal	0	0	0	0	1,625	0	0	0	0	0
Puerto Rico	0	0	0	0	0	0	0	0	0	0
Russia	3,050	0	94	0	0	0	0	0	0	0
Singapore	117	0	13	0	0	0	0	0	0	0
Spain	0	0	280	0	0	0	0	0	0	0
Trinidad and Tobago	10,131	0	0	0	0	0	0	0	0	0
Tunisia	0	0	0	0	0	0	0	0	0	0
Turkey	0	0	144	0	0	0	0	0	0	0
United Kingdom	15,176	1,159	283	0	0	0	0	0	0	0
Virgin Islands	0	0	0	133	0	0	0	0	0	0
Yemen	1,628	0	0	0	0	0	0	0	0	0
Other	3,313	0	1,958	0	0	0	0	0	0	0
Total	**1,155,358**	**25,621**	**51,133**	**1,567**	**1,862**	**9**	**0**	**1,857**	**0**	**601**
Persian Gulf[e]	**346,332**	**1,148**	**7,976**	**0**	**0**	**0**	**0**	**443**	**0**	**0**

See footnotes at end of table.

Table 43. PAD District III—Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin,[a] January-August 1998 (Continued)

(Thousand Barrels)

Country of Origin	Naphtha for Petrochemical Feedstock Use	Other Oils for Petrochemical Feedstock Use	Lubricants	Asphalt and Road Oil	Other Products[c]	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
Arab OPEC	**1,488**	**33,871**	**0**	**0**	**5,294**	**69,144**	**418,868**	**1,439**	**285**	**1,724**
Algeria	812	32,944	0	0	5,294	58,500	61,892	14	241	255
Iraq	0	0	0	0	0	0	36,612	151	0	151
Kuwait	0	0	0	0	0	0	56,862	234	0	234
Qatar	0	927	0	0	0	927	927	0	4	4
Saudi Arabia	676	0	0	0	0	9,717	262,179	1,039	40	1,079
United Arab Emirates	0	0	0	0	0	0	396	2	0	2
Other OPEC	**2,297**	**370**	**0**	**221**	**0**	**24,467**	**360,573**	**1,383**	**101**	**1,484**
Indonesia	0	0	0	0	0	381	714	1	2	3
Nigeria	0	0	0	0	0	50	82,080	338	(s)	338
Venezuela	2,297	370	0	221	0	24,036	277,779	1,044	99	1,143
Non OPEC	**8,811**	**7,791**	**47**	**0**	**67**	**49,296**	**518,824**	**1,932**	**203**	**2,135**
Angola	0	0	0	0	0	260	26,191	107	1	108
Argentina	633	0	0	0	0	866	11,502	44	4	47
Australia	300	4,994	0	0	0	5,398	5,855	2	22	24
Bahama Islands	0	0	0	0	0	81	81	0	(s)	(s)
Belgium	18	176	0	0	0	4,389	4,389	0	18	18
Brazil	219	0	0	0	22	277	277	0	1	1
Brunei	0	155	0	0	0	155	1,588	6	1	7
Canada	641	0	0	0	1	7,047	11,464	18	29	47
China, People's Republic of	0	0	0	0	0	0	3,430	14	0	14
Colombia	202	0	0	0	0	420	38,634	157	2	159
Congo (Brazzaville)	0	0	0	0	0	0	6,437	26	0	26
Congo (Kinshasa)[d]	0	0	0	0	0	0	1,343	6	0	6
Ecuador	98	0	0	0	0	325	4,354	17	1	18
Egypt	70	0	0	0	0	128	128	0	1	1
France	828	0	47	0	10	2,048	2,048	0	8	8
Gabon	0	0	0	0	0	0	25,591	105	0	105
Germany, FR	231	0	0	0	5	1,361	1,361	0	6	6
Greece	311	0	0	0	0	311	311	0	1	1
Guatemala	0	0	0	0	0	0	5,946	24	0	24
Italy	75	0	0	0	0	634	634	0	3	3
Japan	18	0	0	0	21	39	39	0	(s)	(s)
Korea, Republic of	0	0	0	0	0	70	70	0	(s)	(s)
Malaysia	0	0	0	0	0	0	3,111	13	0	13
Mexico	2,571	632	0	0	0	3,910	289,598	1,176	16	1,192
Netherlands	715	0	0	0	0	1,686	1,686	0	7	7
Netherlands Antilles	97	1,067	0	0	0	9,341	10,341	4	38	43
Norway	0	350	0	0	0	2,140	17,848	65	9	73
Oman	0	0	0	0	0	512	512	0	2	2
Peru	0	0	0	0	0	0	2,742	11	0	11
Portugal	0	0	0	0	0	1,625	1,625	0	7	7
Puerto Rico	583	0	0	0	0	583	583	0	2	2
Russia	0	0	0	0	0	94	3,144	13	(s)	13
Singapore	0	0	0	0	0	13	130	(s)	(s)	1
Spain	273	244	0	0	0	797	797	0	3	3
Trinidad and Tobago	0	0	0	0	0	0	10,131	42	0	42
Tunisia	222	0	0	0	0	222	222	0	1	1
Turkey	288	173	0	0	0	605	605	0	2	2
United Kingdom	0	0	0	0	0	1,442	16,618	62	6	68
Virgin Islands	46	0	0	0	0	179	179	0	1	1
Yemen	0	0	0	0	0	0	1,628	7	0	7
Other	372	0	0	0	8	2,338	5,651	14	10	23
Total	**12,596**	**42,032**	**47**	**221**	**5,361**	**142,907**	**1,298,265**	**4,755**	**588**	**5,343**
Persian Gulf[e]	**676**	**927**	**0**	**0**	**0**	**11,170**	**357,502**	**1,425**	**46**	**1,471**

[a] Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.
[b] Includes crude oil imported for storage in the Strategic Petroleum Reserve.
[c] Includes aviation gasoline, aviation gasoline blending components, miscellaneous products, other hydrocarbons and oxygenates, pentanes plus, petroleum coke, and waxes.
[d] Formerly Zaire.
[e] Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.
(s) = Less than 500 barrels per day.
Note: Totals may not equal sum of components due to independent rounding.
Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 44. PAD Districts IV and V—Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin,[a] January-August 1998

(Thousand Barrels)

Country of Origin	Crude Oil[b]	Liquefied Petroleum Gases	Unfinished Oils	Gasoline Blending Compo-nents	Finished Motor Gasoline	Jet Fuel	Distillate Fuel Oil	Residual Fuel Oil	Kerosene	Special Naphthas
	PAD District IV									
Non OPEC	**31,652**	**1,573**	**0**	**0**	**142**	**0**	**1,200**	**0**	**0**	**0**
Canada	31,652	1,573	0	0	142	0	1,200	0	0	0
Total	**31,652**	**1,573**	**0**	**0**	**142**	**0**	**1,200**	**0**	**0**	**0**
	PAD District V									
Arab OPEC	**30,453**	**0**	**0**	**0**	**20**	**0**	**0**	**0**	**0**	**0**
Iraq	12,778	0	0	0	0	0	0	0	0	0
Kuwait	9,585	0	0	0	0	0	0	0	0	0
Saudi Arabia	7,491	0	0	0	20	0	0	0	0	0
United Arab Emirates	599	0	0	0	0	0	0	0	0	0
Other OPEC	**11,721**	**0**	**631**	**0**	**51**	**0**	**0**	**999**	**0**	**0**
Indonesia	8,153	0	268	0	0	0	0	999	0	0
Nigeria	320	0	0	0	51	0	0	0	0	0
Venezuela	3,248	0	363	0	0	0	0	0	0	0
Non OPEC	**77,159**	**20**	**4,852**	**1,105**	**776**	**1,624**	**502**	**196**	**0**	**3**
Argentina	4,786	0	0	0	0	0	0	0	0	0
Australia	7,227	0	0	0	0	0	0	0	0	0
Belgium	0	0	0	26	0	0	0	0	0	0
Canada	28,490	20	107	0	165	16	238	0	0	3
China, People's Republic of	6,773	0	0	0	0	0	0	0	0	0
Ecuador	10,646	0	0	180	0	0	0	0	0	0
France	0	0	0	6	14	0	0	0	0	0
Germany, FR	0	0	0	4	0	0	0	0	0	0
Japan	0	0	40	0	0	0	130	0	0	0
Korea, Republic of	0	0	0	311	0	1,318	134	147	0	0
Malaysia	2,331	0	2,172	0	0	0	0	0	0	0
Mexico	5,530	0	0	0	0	0	0	0	0	0
Netherlands	0	0	0	76	39	0	0	0	0	0
Netherlands Antilles	0	0	0	0	0	289	0	0	0	0
New Zealand	509	0	0	0	0	0	0	0	0	0
Peru	6,124	0	0	0	0	0	0	0	0	0
Russia	97	0	0	0	0	0	0	0	0	0
Singapore	0	0	2,533	0	109	1	0	49	0	0
Virgin Islands	0	0	0	0	284	0	0	0	0	0
Other	4,646	0	0	502	165	0	0	0	0	0
Total	**119,333**	**20**	**5,483**	**1,105**	**847**	**1,624**	**502**	**1,195**	**0**	**3**
Persian Gulf [e]	**30,453**	**0**	**0**	**0**	**20**	**0**	**0**	**0**	**0**	**0**

See footnotes at end of table.

Table 44. PAD Districts IV and V—Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin,[a] January-August 1998 (Continued)

(Thousand Barrels)

Country of Origin	Naphtha for Petrochemical Feedstock Use	Other Oils for Petrochemical Feedstock Use	Lubricants	Asphalt and Road Oil	Other Products[c]	Total Products	Total Crude Oil and Products	Daily Average Crude Oil	Daily Average Products	Daily Average Total
PAD District IV										
Non OPEC	**0**	**0**	**0**	**63**	**945**	**3,923**	**35,575**	**130**	**16**	**146**
Canada	0	0	0	63	945	3,923	35,575	130	16	146
Total	**0**	**0**	**0**	**63**	**945**	**3,923**	**35,575**	**130**	**16**	**146**
PAD District V										
Arab OPEC	**0**	**0**	**0**	**0**	**5,200**	**5,220**	**35,673**	**125**	**21**	**147**
Iraq	0	0	0	0	0	0	12,778	53	0	53
Kuwait	0	0	0	0	0	0	9,585	39	0	39
Saudi Arabia	0	0	0	0	5,200	5,220	12,711	31	21	52
United Arab Emirates	0	0	0	0	0	0	599	2	0	2
Other OPEC	**0**	**0**	**0**	**0**	**1,052**	**2,733**	**14,454**	**48**	**11**	**59**
Indonesia	0	0	0	0	0	1,267	9,420	34	5	39
Nigeria	0	0	0	0	0	51	371	1	(s)	2
Venezuela	0	0	0	0	1,052	1,415	4,663	13	6	19
Non OPEC	**99**	**0**	**0**	**12**	**4,617**	**13,806**	**90,965**	**318**	**57**	**374**
Argentina	0	0	0	0	0	0	4,786	20	0	20
Australia	0	0	0	0	0	0	7,227	30	0	30
Belgium	0	0	0	0	0	26	26	0	(s)	(s)
Canada	0	0	0	12	3,992	4,553	33,043	117	19	136
China, People's Republic of	0	0	0	0	0	0	6,773	28	0	28
Ecuador	0	0	0	0	0	180	10,826	44	1	45
France	0	0	0	0	0	20	20	0	(s)	(s)
Germany, FR	0	0	0	0	0	4	4	0	(s)	(s)
Japan	0	0	0	0	0	170	170	0	1	1
Korea, Republic of	99	0	0	0	399	2,408	2,408	0	10	10
Malaysia	0	0	0	0	0	2,172	4,503	10	9	19
Mexico	0	0	0	0	18	18	5,548	23	(s)	23
Netherlands	0	0	0	0	0	115	115	0	(s)	(s)
Netherlands Antilles	0	0	0	0	0	289	289	0	1	1
New Zealand	0	0	0	0	0	0	509	2	0	2
Peru	0	0	0	0	0	0	6,124	25	0	25
Russia	0	0	0	0	0	0	97	(s)	0	(s)
Singapore	0	0	0	0	208	2,900	2,900	0	12	12
Virgin Islands	0	0	0	0	0	284	284	0	1	1
Other	0	0	0	0	0	667	5,313	19	3	22
Total	**99**	**0**	**0**	**12**	**10,869**	**21,759**	**141,092**	**491**	**90**	**581**
Persian Gulf [e]	**0**	**0**	**0**	**0**	**5,200**	**5,220**	**35,673**	**125**	**21**	**147**

[a] Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.
[b] Includes crude oil imported for storage in the Strategic Petroleum Reserve.
[c] Includes aviation gasoline, aviation gasoline blending components, miscellaneous products, other hydrocarbons and oxygenates, pentanes plus, petroleum coke, and waxes.
[d] Formerly Zaire.
[e] Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.
(s) = Less than 500 barrels per day.
Note: Totals may not equal sum of components due to independent rounding.
Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 45. Exports of Crude Oil and Petroleum Products by PAD District, August 1998
(Thousand Barrels)

Commodity	Petroleum Administration for Defense Districts						Daily Average
	I	II	III	IV	V	U.S. Total	
Crude Oil[a]	**34**	**749**	**2**	**0**	**800**	**1,585**	**51**
Natural Gas Liquids	**54**	**102**	**396**	**4**	**267**	**822**	**27**
Pentanes Plus	1	29	0	4	0	34	1
Liquefied Petroleum Gases	53	73	396	(s)	267	789	25
Ethane/Ethylene	0	0	0	0	0	0	0
Propane/Propylene	25	25	336	(s)	91	478	15
Normal Butane/Butylene	27	49	59	0	176	311	10
Isobutane/Isobutylene	0	0	0	0	0	0	0
Other Liquids	**76**	**1**	**1,768**	**0**	**77**	**1,923**	**62**
Other Hydrocarbons/Oxygenates	76	1	951	0	77	1,105	36
Motor Gasoline Blend. Comp.	1	0	817	0	0	818	26
Finished Petroleum Products	**775**	**588**	**12,497**	**14**	**5,984**	**19,858**	**641**
Finished Motor Gasoline	36	117	3,706	0	507	4,367	141
Naphtha-Type Jet Fuel	1	(s)	28	0	(s)	29	1
Kerosene-Type Jet Fuel	2	0	46	0	177	225	7
Kerosene	3	(s)	(s)	0	2	6	(s)
Distillate Fuel Oil	66	6	3,483	0	1,085	4,639	150
Residual Fuel Oil	262	1	2,009	0	976	3,248	105
Special Naphthas	28	8	14	(s)	698	748	24
Lubricants	127	65	431	10	94	726	23
Waxes	24	29	47	2	12	114	4
Petroleum Coke	209	244	2,705	0	2,410	5,568	180
Asphalt and Road Oil	14	118	27	1	21	182	6
Miscellaneous Products	4	(s)	1	0	1	6	(s)
Total	**940**	**1,440**	**14,662**	**18**	**7,128**	**24,187**	**780**

[a] Crude oil exports are restricted to: (1) crude oil derived from fields under the State waters of Alaska's Cook Inlet; (2) Alaskan North Slope crude oil; (3) certain domestically produced crude oil destined for Canada; (4) shipments to U.S. territories; and (5) California crude oil to Pacific Rim countries. On December 6, 1991, the U.S. Department of Commerce approved a license to export 25,000 barrels per day of California heavy crude oil (less than 20 degrees API gravity) to Pacific Rim countries for one year.

(s) = Less than 500 barrels or less than 500 barrels per day.

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

Sources: Energy Information Administration (EIA) Form EIA-810, "Monthly Refinery Report" and the U.S. Bureau of the Census.

Table 46. Year-to-Date Exports of Crude Oil and Petroleum Products by PAD District, January-August 1998
(Thousand Barrels)

Commodity	Petroleum Administration for Defense Districts						Daily Average
	I	II	III	IV	V	U.S. Total	
Crude Oil[a]	**360**	**13,967**	**3**	**135**	**17,291**	**31,756**	**131**
Natural Gas Liquids	**448**	**4,826**	**3,385**	**41**	**3,339**	**12,038**	**50**
Pentanes Plus	12	2,770	0	36	1	2,818	12
Liquefied Petroleum Gases	436	2,056	3,385	5	3,338	9,220	38
Ethane/Ethylene	0	0	0	0	0	0	0
Propane/Propylene	237	663	2,724	5	1,655	5,283	22
Normal Butane/Butylene	199	1,393	660	0	1,684	3,937	16
Isobutane/Isobutylene	0	0	0	0	0	0	0
Other Liquids	**110**	**11**	**6,887**	**0**	**462**	**7,471**	**31**
Other Hydrocarbons/Oxygenates	105	11	3,287	0	322	3,725	15
Motor Gasoline Blend. Comp.	5	(s)	3,600	0	140	3,745	15
Finished Petroleum Products	**8,434**	**4,887**	**117,047**	**92**	**54,573**	**185,032**	**761**
Finished Motor Gasoline	524	583	23,328	3	5,118	29,556	122
Naphtha-Type Jet Fuel	228	(s)	160	0	19	408	2
Kerosene-Type Jet Fuel	459	379	2,875	(s)	2,449	6,163	25
Kerosene	22	13	53	0	46	134	1
Distillate Fuel Oil	1,037	280	23,157	(s)	9,257	33,731	139
Residual Fuel Oil	2,968	108	22,301	0	9,942	35,319	145
Special Naphthas	352	97	401	2	3,422	4,275	18
Lubricants	1,136	458	3,711	64	777	6,146	25
Waxes	193	179	250	13	87	722	3
Petroleum Coke	1,371	1,181	40,529	(s)	23,224	66,306	273
Asphalt and Road Oil	107	1,605	277	8	158	2,156	9
Miscellaneous Products	35	3	4	0	74	116	(s)
Total	**9,352**	**23,692**	**127,322**	**267**	**75,665**	**236,297**	**972**

[a] Crude oil exports are restricted to: (1) crude oil derived from fields under the State waters of Alaska's Cook Inlet; (2) Alaskan North Slope crude oil; (3) certain domestically produced crude oil destined for Canada; (4) shipments to U.S. territories; and (5) California crude oil to Pacific Rim countries. On December 6, 1991, the U.S. Department of Commerce approved a license to export 25,000 barrels per day of California heavy crude oil (less than 20 degrees API gravity) to Pacific Rim countries for one year.

(s) = Less than 500 barrels or less than 500 barrels per day.

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

Sources: Energy Information Administration (EIA) Form EIA-810, "Monthly Refinery Report" and the U.S. Bureau of the Census.

Table 47. Exports of Crude Oil and Petroleum Products by Destination, August 1998
(Thousand Barrels)

Destination	Crude Oil[a]	Pentanes Plus	Liquefied Petroleum Gases	Finished Motor Gasoline	Jet Fuel	Kerosene	Distillate Fuel Oil	Residual Fuel Oil
Argentina	0	0	0	0	0	0	0	(s)
Australia	0	0	1	0	(s)	0	1	0
Bahama Islands	0	0	2	1	1	(s)	40	84
Bahrain	0	0	0	0	0	0	0	0
Belgium & Luxembourg	0	0	0	0	0	0	1	(s)
Brazil	0	0	0	0	0	0	136	0
Canada	786	33	108	269	178	1	218	265
Chile	0	0	1	(s)	0	0	283	0
China, People's Republic of	0	0	0	0	0	0	1	0
China, Taiwan	0	0	0	261	0	0	(s)	0
Colombia	0	0	1	0	0	0	(s)	1
Costa Rica	0	0	0	0	0	0	207	0
Denmark	0	0	0	0	0	0	0	0
Dominican Republic	0	0	63	36	0	0	60	143
Ecuador	0	0	172	220	0	0	332	0
Egypt	0	0	0	0	0	0	(s)	0
El Salvador	0	0	0	0	0	0	1	0
Finland	0	0	0	0	0	0	0	0
France	0	(s)	0	35	0	0	0	3
French Pacific Islands	0	0	0	0	0	1	1	0
Germany, FR	0	0	0	0	0	0	(s)	(s)
Ghana	0	0	0	0	0	0	0	0
Greece	0	0	0	0	0	0	0	0
Guatemala	0	0	0	177	0	0	164	0
Guinea	0	0	0	0	0	0	0	0
Honduras	0	0	0	66	14	0	218	0
Hong Kong	0	0	0	0	0	0	0	0
India	0	0	0	0	0	0	0	0
Indonesia	0	0	0	0	0	0	0	0
Ireland	0	0	0	0	0	0	0	0
Israel	0	0	(s)	0	0	0	1	0
Italy	0	0	(s)	1	0	0	0	0
Jamaica	0	0	3	(s)	0	0	1	687
Japan	0	0	0	0	1	0	4	12
Korea, Republic of	797	0	0	0	0	0	4	200
Malaysia	0	0	0	0	0	0	(s)	0
Mexico	2	0	395	2,908	51	1	2,050	1,453
Netherlands	0	0	0	0	0	0	1	8
Netherlands Antilles	0	0	0	0	0	0	(s)	220
New Zealand	0	0	(s)	0	0	0	0	0
Nigeria	0	0	0	0	0	0	0	0
Norway	0	0	0	0	0	0	0	0
Panama	0	0	22	0	0	0	594	0
Peru	0	0	0	0	0	0	200	0
Philippines	0	0	0	0	0	0	(s)	0
Portugal	0	0	0	0	0	0	0	0
Puerto Rico	0	0	(s)	(s)	0	0	(s)	0
Russia	0	0	0	99	0	1	1	4
Saudi Arabia	0	0	(s)	0	0	0	0	0
Singapore	0	0	2	0	0	0	(s)	101
South Africa	0	0	0	0	0	0	2	0
Spain	0	0	0	0	0	0	0	0
Suriname	0	0	0	0	0	0	0	0
Sweden	0	0	0	0	0	0	0	0
Switzerland	0	0	0	0	0	0	(s)	0
Thailand	0	0	2	0	0	0	37	68
Trinidad and Tobago	0	0	0	280	0	0	0	0
Turkey	0	0	0	0	0	0	0	0
United Arab Emirates	0	0	0	0	0	0	(s)	0
United Kingdom	0	(s)	6	(s)	(s)	0	9	0
Uruguay	0	0	0	0	0	0	0	0
Venezuela	0	0	0	0	0	0	(s)	0
Virgin Islands	0	0	0	0	0	0	0	0
Yugoslavia	0	0	0	0	0	0	0	0
Other	0	0	9	14	9	0	71	0
Total	**1,585**	**34**	**789**	**4,367**	**254**	**6**	**4,639**	**3,248**

See footnotes at end of table.

Table 47. Exports of Crude Oil and Petroleum Products by Destination, August 1998 (Continued)
(Thousand Barrels)

Destination	Special Naphthas	Lubricants	Waxes	Petroleum Coke	Asphalt and Road Oil	Other Products[b]	Crude Oil and Products	
							Total	Daily Average
Argentina	(s)	5	(s)	(s)	0	(s)	6	(s)
Australia	(s)	7	(s)	290	(s)	0	299	10
Bahama Islands	0	2	(s)	0	(s)	0	131	4
Bahrain	0	(s)	0	0	0	0	(s)	(s)
Belgium & Luxembourg	0	2	(s)	0	0	34	37	1
Brazil	(s)	1	(s)	404	(s)	4	544	18
Canada	14	147	54	457	136	185	2,852	92
Chile	(s)	8	(s)	33	1	0	326	11
China, People's Republic of	1	3	0	0	0	0	5	(s)
China, Taiwan	(s)	17	4	2	(s)	(s)	286	9
Colombia	1	73	1	0	1	1	78	3
Costa Rica	(s)	10	(s)	0	0	(s)	217	7
Denmark	0	(s)	0	0	0	0	(s)	(s)
Dominican Republic	0	35	0	120	0	1	458	15
Ecuador	0	19	0	0	0	(s)	743	24
Egypt	0	(s)	0	0	(s)	0	(s)	(s)
El Salvador	0	3	0	0	0	0	4	(s)
Finland	0	1	0	0	0	40	41	1
France	0	3	2	96	0	0	140	5
French Pacific Islands	(s)	(s)	0	0	0	0	2	(s)
Germany, FR	0	3	21	34	4	(s)	62	2
Ghana	0	(s)	0	0	0	0	(s)	(s)
Greece	0	3	0	0	0	0	3	(s)
Guatemala	1	14	(s)	0	0	23	379	12
Guinea	0	(s)	0	0	0	0	(s)	(s)
Honduras	(s)	12	(s)	0	0	0	310	10
Hong Kong	0	2	1	0	0	(s)	3	(s)
India	0	27	1	2	(s)	1	30	1
Indonesia	0	1	(s)	0	0	32	32	1
Ireland	0	(s)	(s)	170	0	(s)	171	6
Israel	(s)	1	(s)	309	0	(s)	312	10
Italy	(s)	26	(s)	213	(s)	40	281	9
Jamaica	4	2	(s)	0	0	17	714	23
Japan	694	12	3	748	(s)	16	1,490	48
Korea, Republic of	1	5	1	(s)	1	30	1,039	34
Malaysia	0	1	0	5	0	(s)	6	(s)
Mexico	5	154	22	586	25	852	8,503	274
Netherlands	(s)	3	(s)	854	5	32	904	29
Netherlands Antilles	0	1	0	0	(s)	205	426	14
New Zealand	0	1	0	0	0	0	2	(s)
Nigeria	0	1	0	0	0	0	1	(s)
Norway	0	(s)	(s)	0	0	0	(s)	(s)
Panama	0	3	(s)	0	0	0	618	20
Peru	0	2	1	(s)	0	48	250	8
Philippines	(s)	1	(s)	0	0	(s)	1	(s)
Portugal	0	(s)	0	0	0	0	(s)	(s)
Puerto Rico	19	16	(s)	0	0	(s)	36	1
Russia	(s)	3	0	0	0	0	109	4
Saudi Arabia	(s)	3	(s)	55	0	0	58	2
Singapore	(s)	5	(s)	(s)	1	0	109	4
South Africa	0	22	(s)	83	(s)	0	106	3
Spain	0	(s)	(s)	492	0	0	492	16
Suriname	0	1	0	0	0	0	1	(s)
Sweden	0	1	(s)	0	0	(s)	1	(s)
Switzerland	0	(s)	(s)	0	0	32	32	1
Thailand	0	2	(s)	0	0	(s)	109	4
Trinidad and Tobago	3	2	0	0	0	0	284	9
Turkey	(s)	34	0	238	(s)	0	273	9
United Arab Emirates	0	(s)	0	55	0	0	55	2
United Kingdom	(s)	5	1	180	5	(s)	207	7
Uruguay	0	1	(s)	0	0	0	1	(s)
Venezuela	(s)	3	0	140	(s)	335	478	15
Virgin Islands	0	(s)	0	0	0	0	(s)	(s)
Yugoslavia	0	(s)	0	0	0	0	(s)	(s)
Other	4	17	(s)	0	1	(s)	125	4
Total	**748**	**726**	**114**	**5,568**	**182**	**1,928**	**24,187**	**780**

[a] Crude oil exports are restricted to: (1) crude oil derived from fields under the State waters of Alaska's Cook Inlet; (2) Alaskan North Slope crude oil; (3) certain domestically produced crude oil destined for Canada; (4) shipments to U.S. territories; and (5) California crude oil to Pacific Rim countries. On December 6, 1991, the U.S. Department of Commerce approved a license to export 25,000 barrels per day of California heavy crude oil (less than 20 degrees API gravity) to Pacific Rim countries for one year.

[b] Includes miscellaneous products, motor gasoline blending components, and other hydrocarbons and oxygenates.

(s) = Less than 500 barrels or less than 500 barrels per day.

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

Sources: Energy Information Administration (EIA) Form EIA-810, "Monthly Refinery Report" and the U.S. Bureau of the Census.

Table 48. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-August 1998
(Thousand Barrels)

Destination	Crude Oil[a]	Pentanes Plus	Liquefied Petroleum Gases	Finished Motor Gasoline	Jet Fuel	Kerosene	Distillate Fuel Oil	Residual Fuel Oil
Argentina	0	0	(s)	1	199	0	304	2
Australia	0	0	12	(s)	(s)	1	8	2
Bahama Islands	0	0	70	255	117	1	583	491
Bahrain	0	0	(s)	0	0	0	0	0
Belgium & Luxembourg	0	0	0	1	(s)	0	8	1
Brazil	0	0	(s)	0	82	(s)	1,375	(s)
Cameroon	0	0	0	0	0	0	0	0
Canada	14,767	2,815	2,372	3,247	2,762	21	1,803	3,421
Chile	0	0	1	88	0	0	385	0
China, People's Republic of	5,291	0	(s)	(s)	0	0	1,652	1,483
China, Taiwan	2,595	0	(s)	489	0	1	165	(s)
Colombia	0	0	198	0	0	(s)	3	1
Costa Rica	0	0	(s)	14	37	0	1,944	222
Denmark	0	0	0	0	0	0	0	0
Dominican Republic	0	0	353	36	0	0	378	1,172
Ecuador	0	0	353	1,076	0	1	1,626	0
Egypt	0	0	0	0	0	0	1	0
El Salvador	0	1	0	201	34	0	857	0
Finland	0	0	0	0	111	2	250	0
France	0	(s)	1	35	0	0	2	5
French Pacific Islands	0	1	0	0	0	1	139	0
Germany, FR	0	0	39	0	(s)	(s)	9	(s)
Ghana	0	0	0	0	0	0	0	0
Greece	0	0	0	0	0	0	2	0
Guatemala	0	0	1	1,446	96	(s)	1,424	0
Guinea	0	0	0	0	(s)	0	1	0
Honduras	0	0	13	484	115	0	1,287	437
Hong Kong	0	0	(s)	0	0	1	12	0
India	0	0	0	0	0	0	52	0
Indonesia	0	0	0	0	0	0	(s)	0
Ireland	0	0	0	0	0	0	(s)	0
Israel	0	0	6	(s)	1,542	2	201	0
Italy	0	(s)	1	3	0	(s)	1	310
Jamaica	0	0	84	1	44	0	7	5,657
Japan	1,885	0	116	5	1	0	106	367
Korea, Republic of	7,211	0	5	0	0	(s)	109	297
Malaysia	0	0	(s)	0	0	0	13	0
Mexico	3	0	5,304	19,626	499	87	7,624	15,361
Netherlands	0	0	(s)	0	234	0	153	421
Netherlands Antilles	0	0	29	533	0	0	1,776	1,553
New Zealand	0	0	1	(s)	(s)	0	(s)	0
Nigeria	0	0	1	318	0	0	296	240
Norway	0	0	2	0	0	0	0	1
Panama	0	0	138	257	360	(s)	5,234	2,263
Peru	0	0	0	87	0	1	783	0
Philippines	0	0	0	0	0	0	1	0
Poland	0	0	0	0	0	0	1	0
Portugal	0	0	0	0	0	0	(s)	0
Puerto Rico	0	(s)	1	1	205	(s)	359	(s)
Russia	0	0	1	402	97	8	100	10
Saudi Arabia	0	0	(s)	0	(s)	1	1	1
Singapore	0	0	4	268	0	0	1,287	689
South Africa	0	0	(s)	0	0	0	5	0
Spain	0	0	(s)	0	0	0	273	0
Suriname	0	0	0	0	0	0	(s)	0
Sweden	0	0	0	1	0	0	7	0
Switzerland	0	0	0	0	0	(s)	(s)	0
Thailand	0	(s)	2	0	0	0	408	547
Trinidad and Tobago	0	0	2	430	0	0	76	0
Turkey	0	0	0	2	0	(s)	1	0
United Arab Emirates	0	0	(s)	0	0	2	5	0
United Kingdom	0	(s)	29	1	(s)	1	25	12
Uruguay	0	0	0	0	1	0	(s)	0
Venezuela	0	0	2	25	0	0	296	(s)
Virgin Islands	0	0	0	0	0	0	(s)	0
Yugoslavia	0	0	0	0	0	0	0	0
Other	4	0	73	222	33	1	309	354
Total	**31,756**	**2,818**	**9,220**	**29,556**	**6,570**	**134**	**33,731**	**35,319**

See footnotes at end of table.

Table 48. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-August 1998 (Continued)

(Thousand Barrels)

Destination	Special Naphthas	Lubricants	Waxes	Petroleum Coke	Asphalt and Road Oil	Other Products[b]	Crude Oil and Products	
							Total	Daily Average
Argentina	16	73	4	1	1	1	602	2
Australia	8	44	4	2,569	2	(s)	2,651	11
Bahama Islands	0	23	(s)	0	1	(s)	1,544	6
Bahrain	(s)	1	0	491	(s)	0	492	2
Belgium & Luxembourg	1	124	1	3,152	1	171	3,460	14
Brazil	17	296	2	1,800	1	16	3,590	15
Cameroon	0	(s)	0	83	0	0	83	(s)
Canada	337	1,049	359	3,391	1,722	340	38,406	158
Chile	5	174	1	330	1	(s)	986	4
China, People's Republic of	7	31	1	0	(s)	(s)	8,465	35
China, Taiwan	16	174	7	42	2	22	3,512	14
Colombia	8	226	5	124	1	8	576	2
Costa Rica	3	78	2	0	59	1	2,360	10
Denmark	0	(s)	1	693	7	0	701	3
Dominican Republic	4	145	1	318	12	2	2,420	10
Ecuador	220	105	1	0	0	547	3,929	16
Egypt	1	19	0	0	2	0	22	(s)
El Salvador	(s)	35	(s)	86	0	0	1,214	5
Finland	0	37	(s)	0	1	40	441	2
France	1	17	30	2,181	0	(s)	2,274	9
French Pacific Islands	1	1	0	0	0	0	143	1
Germany, FR	2	39	60	266	27	2	444	2
Ghana	(s)	2	0	0	0	0	2	(s)
Greece	0	14	(s)	230	0	(s)	247	1
Guatemala	5	125	3	0	0	24	3,125	13
Guinea	0	13	0	0	0	0	14	(s)
Honduras	7	89	2	0	0	(s)	2,433	10
Hong Kong	4	50	6	0	(s)	(s)	73	(s)
India	(s)	236	3	204	15	1	510	2
Indonesia	(s)	5	(s)	83	(s)	64	152	1
Ireland	(s)	1	2	322	0	1	325	1
Israel	(s)	17	(s)	1,061	5	(s)	2,834	12
Italy	(s)	66	4	7,087	2	62	7,537	31
Jamaica	22	29	(s)	77	12	57	5,991	25
Japan	3,216	174	24	9,113	7	100	15,112	62
Korea, Republic of	148	22	3	1,481	5	113	9,394	39
Malaysia	(s)	11	1	13	(s)	2	41	(s)
Mexico	86	1,171	171	1,962	195	4,210	56,298	232
Netherlands	5	43	2	6,702	26	137	7,724	32
Netherlands Antilles	(s)	195	(s)	0	(s)	205	4,292	18
New Zealand	0	11	(s)	352	(s)	0	365	2
Nigeria	0	75	(s)	44	0	0	974	4
Norway	0	2	(s)	155	0	0	161	1
Panama	(s)	82	1	(s)	0	1	8,337	34
Peru	3	14	2	3	(s)	51	944	4
Philippines	(s)	32	3	2	0	1	39	(s)
Poland	0	1	0	0	0	0	1	(s)
Portugal	(s)	(s)	(s)	363	0	0	364	1
Puerto Rico	68	151	2	0	(s)	2	791	3
Russia	(s)	42	(s)	0	1	(s)	662	3
Saudi Arabia	(s)	14	(s)	96	0	1	115	(s)
Singapore	1	121	1	28	2	32	2,434	10
South Africa	(s)	136	(s)	646	1	(s)	789	3
Spain	(s)	4	1	8,424	2	3	8,706	36
Suriname	0	8	(s)	0	0	0	8	(s)
Sweden	(s)	7	1	763	0	(s)	780	3
Switzerland	9	2	(s)	0	(s)	32	43	(s)
Thailand	11	59	1	(s)	3	3	1,034	4
Trinidad and Tobago	4	10	(s)	1	0	77	600	2
Turkey	(s)	86	(s)	4,625	1	7	4,723	19
United Arab Emirates	1	13	(s)	584	1	(s)	606	2
United Kingdom	2	27	5	2,839	22	17	2,980	12
Uruguay	0	9	(s)	0	0	(s)	10	(s)
Venezuela	(s)	143	2	1,186	5	1,231	2,892	12
Virgin Islands	0	2	0	0	0	(s)	2	(s)
Yugoslavia	0	2	0	23	0	(s)	25	(s)
Other	36	143	1	2,307	9	2	3,494	14
Total	**4,275**	**6,146**	**722**	**66,306**	**2,156**	**7,587**	**236,297**	**972**

[a] Crude oil exports are restricted to: (1) crude oil derived from fields under the State waters of Alaska's Cook Inlet; (2) Alaskan North Slope crude oil; (3) certain domestically produced crude oil destined for Canada; (4) shipments to U.S. territories; and (5) California crude oil to Pacific Rim countries. On December 6, 1991, the U.S. Department of Commerce approved a license to export 25,000 barrels per day of California heavy crude oil (less than 20 degrees API gravity) to Pacific Rim countries for one year.

[b] Includes miscellaneous products, motor gasoline blending components, and other hydrocarbons and oxygenates.

(s) = Less than 500 barrels or less than 500 barrels per day.

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

Table 49. Net Imports of Crude Oil and Petroleum Products into the United States by Country, August 1998
(Thousand Barrels per Day)

Country	Crude Oil[a]	Liquefied Petroleum Gases	Finished Motor Gasoline	Jet Fuel	Distillate Fuel Oil	Residual Fuel Oil	Petroleum Coke	Lubricants	Other Products[b]	Total Products	Total Crude Oil and Products
Arab OPEC	**2,463**	**67**	**15**	**0**	**1**	**33**	**-4**	**(s)**	**171**	**283**	**2,746**
Algeria	10	67	0	0	0	33	0	(s)	155	255	264
Iraq	713	0	0	0	0	0	0	0	0	0	713
Kuwait	273	0	0	0	0	0	0	(s)	(s)	(s)	273
Qatar	0	0	0	0	0	0	0	(s)	(s)	(s)	(s)
Saudi Arabia	1,468	(s)	15	0	1	0	-2	(s)	16	30	1,498
United Arab Emirates	0	0	0	0	(s)	0	-2	(s)	0	-2	-2
Other OPEC	**2,116**	**24**	**70**	**13**	**46**	**46**	**-5**	**(s)**	**151**	**345**	**2,461**
Indonesia	41	0	0	0	0	0	0	(s)	17	17	58
Nigeria	726	0	0	0	0	10	0	(s)	0	10	736
Venezuela	1,349	24	70	13	46	37	-5	(s)	134	319	1,668
Non OPEC	**4,513**	**80**	**96**	**48**	**-23**	**45**	**-172**	**-13**	**268**	**329**	**4,842**
Angola	422	0	0	0	0	0	0	0	0	0	422
Argentina	73	0	0	0	0	(s)	(s)	(s)	8	7	81
Australia	21	(s)	0	(s)	(s)	0	-9	(s)	21	12	32
Bahama Islands	0	(s)	(s)	(s)	-1	-3	0	(s)	(s)	-4	-4
Belgium & Luxembourg	0	0	(s)	0	(s)	(s)	0	(s)	23	24	24
Brazil	0	0	19	0	-4	0	-13	(s)	9	11	11
Brunei	13	0	0	0	0	0	0	0	0	0	13
Cameroon	0	0	0	0	0	13	0	0	0	13	13
Canada	1,223	81	52	4	46	35	-15	-3	40	240	1,463
China, People's Republic of	57	0	0	0	(s)	0	0	(s)	(s)	(s)	57
China, Taiwan	0	0	-8	0	(s)	0	(s)	-1	(s)	-9	-9
Colombia	357	(s)	0	3	(s)	(s)	0	-2	(s)	1	358
Congo (Brazzaville)	62	0	0	0	0	0	0	(s)	0	(s)	62
Congo (Kinshasa)[c]	26	0	0	0	0	0	0	0	0	0	26
Ecuador	158	-6	-7	0	-11	0	0	-1	(s)	-24	134
Egypt	22	0	0	0	(s)	0	0	(s)	(s)	(s)	22
France	0	0	9	0	0	(s)	-3	(s)	14	21	21
Gabon	118	0	0	0	0	0	0	0	0	0	118
Germany, FR	0	0	(s)	0	(s)	24	-1	(s)	-1	22	22
Greece	0	0	0	0	0	0	0	(s)	0	(s)	(s)
Guatemala	29	0	-6	0	-5	0	0	(s)	-1	-12	17
India	0	0	0	0	0	0	(s)	-1	(s)	-1	-1
Italy	0	(s)	7	0	0	0	-7	-1	1	1	1
Jamaica	0	(s)	(s)	0	(s)	-22	0	(s)	-1	-23	-23
Japan	0	0	0	(s)	(s)	(s)	-24	(s)	-23	-48	-48
Korea, Republic of	-26	0	0	16	(s)	-6	(s)	(s)	5	14	-11
Malaysia	4	0	0	0	(s)	0	(s)	(s)	7	7	11
Mexico	1,139	-13	-94	-2	-66	-47	-19	-5	-15	-260	879
Netherlands	0	0	1	0	(s)	(s)	-28	(s)	9	-18	-18
Netherlands Antilles	0	0	0	6	(s)	-1	0	(s)	22	27	27
Norway	260	21	1	0	0	0	0	(s)	4	27	287
Oman	0	0	0	0	0	0	0	(s)	0	(s)	(s)
Panama	0	-1	0	0	-19	0	0	(s)	(s)	-20	-20
Peru	35	0	0	0	-6	0	(s)	(s)	-2	-8	27
Puerto Rico	0	(s)	(s)	0	(s)	0	0	7	15	21	21
Romania	0	0	0	0	0	0	0	(s)	(s)	(s)	(s)
Russia	0	0	-3	0	(s)	(s)	0	(s)	(s)	-3	-3
Spain	0	0	(s)	0	0	0	-16	(s)	8	-8	-8
Sweden	0	0	(s)	0	0	0	0	(s)	(s)	(s)	(s)
Thailand	0	(s)	0	0	-1	-2	0	(s)	(s)	-4	-4
Trinidad and Tobago	53	0	-9	0	9	1	0	(s)	(s)	1	53
Turkey	0	0	0	0	0	0	-8	-1	(s)	-9	-9
United Kingdom	295	(s)	1	(s)	(s)	13	-6	(s)	63	70	365
Virgin Islands	0	0	116	21	65	50	0	(s)	27	279	279
Yemen	31	0	0	0	0	0	0	0	0	0	31
Other	143	-2	15	-1	-27	-8	-23	-4	33	-17	126
Total	**9,092**	**170**	**180**	**61**	**24**	**124**	**-180**	**-14**	**590**	**957**	**10,049**
Persian Gulf[d]	**2,453**	**(s)**	**15**	**0**	**1**	**0**	**-4**	**(s)**	**16**	**29**	**2,482**

[a] Includes crude oil imported for storage in the Strategic Petroleum Reserve.
[b] Includes asphalt and road oil, aviation gasoline, aviation gasoline blending components, kerosene, miscellaneous products, motor gasoline blending components, naphtha for petrochemical feedstock use, other hydrocarbons and oxygenates, other oils for petrochemical feedstock use, pentanes plus, special naphthas, unfinished oils, and waxes.
[c] Formerly Zaire.
[d] Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.
(s) = Less than 500 barrels per day.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-814, "Monthly Imports Report" and the U.S. Bureau of the Census.

Table 50. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-August 1998

(Thousand Barrels per Day)

Country	Crude Oil[a]	Liquefied Petroleum Gases	Finished Motor Gasoline	Jet Fuel	Distillate Fuel Oil	Residual Fuel Oil	Petroleum Coke	Lubricants	Other Products[b]	Total Products	Total Crude Oil and Products
Arab OPEC	**1,959**	**72**	**22**	**(s)**	**1**	**40**	**-3**	**(s)**	**251**	**383**	**2,342**
Algeria	14	67	0	0	0	35	0	(s)	190	291	305
Iraq	227	0	0	0	0	0	0	0	0	0	227
Kuwait	304	0	0	0	(s)	0	(s)	(s)	(s)	(s)	304
Qatar	2	0	0	0	0	0	0	(s)	4	4	6
Saudi Arabia	1,408	5	22	(s)	1	6	(s)	(s)	57	90	1,498
United Arab Emirates	4	(s)	0	0	(s)	0	-2	(s)	(s)	-2	2
Other OPEC	**2,154**	**14**	**48**	**30**	**40**	**44**	**-5**	**-1**	**139**	**309**	**2,463**
Indonesia	35	0	0	0	(s)	4	(s)	(s)	2	6	41
Nigeria	750	(s)	-1	0	-1	3	(s)	(s)	1	1	751
Venezuela	1,370	14	49	30	41	38	-5	-1	136	302	1,671
Non OPEC	**4,340**	**96**	**107**	**19**	**12**	**-23**	**-264**	**-15**	**351**	**284**	**4,625**
Angola	433	0	0	0	0	0	0	(s)	1	1	434
Argentina	73	(s)	2	-1	-1	(s)	(s)	(s)	15	15	88
Australia	32	(s)	(s)	(s)	(s)	(s)	-11	(s)	22	11	43
Bahama Islands	0	(s)	-1	(s)	-2	-2	0	(s)	(s)	-6	-6
Belgium & Luxembourg	0	0	4	(s)	(s)	3	-13	-1	26	19	19
Benin	0	0	0	0	0	0	0	(s)	0	(s)	(s)
Brazil	0	(s)	6	(s)	-6	3	-7	-1	12	7	7
Brunei	11	0	0	0	0	0	0	(s)	1	1	11
Cameroon	0	0	0	0	0	3	(s)	(s)	0	2	2
Canada	1,235	108	43	-10	52	8	-13	-2	29	215	1,450
China, People's Republic of	36	(s)	(s)	0	-7	-6	0	(s)	(s)	-13	23
China, Taiwan	-11	(s)	-2	0	-1	(s)	(s)	-1	(s)	-4	-14
Colombia	304	-1	0	(s)	(s)	1	-1	-1	2	1	305
Congo (Brazzaville)	43	0	0	0	0	0	0	(s)	0	(s)	43
Congo (Kinshasa)[c]	21	0	0	0	0	0	0	(s)	0	(s)	21
Ecuador	94	-1	-4	0	-7	1	0	(s)	-1	-13	81
Egypt	11	0	0	0	(s)	0	0	(s)	1	(s)	12
France	0	(s)	11	0	(s)	(s)	-9	(s)	28	30	30
Gabon	212	0	0	0	0	0	0	(s)	0	(s)	212
Germany, FR	0	(s)	1	(s)	(s)	9	-1	(s)	5	13	13
Greece	0	0	0	0	(s)	0	-1	(s)	1	(s)	(s)
Guatemala	24	(s)	-6	(s)	-6	0	0	-1	(s)	-13	12
India	0	0	0	0	(s)	0	-1	-1	(s)	-2	-2
Italy	0	(s)	4	0	(s)	1	-29	(s)	8	-16	-16
Jamaica	0	(s)	(s)	(s)	(s)	-23	(s)	(s)	(s)	-25	-25
Japan	-8	(s)	(s)	(s)	(s)	-2	-38	-1	-12	-52	-60
Korea, Republic of	-30	(s)	0	5	(s)	-1	-6	(s)	3	1	-28
Malaysia	22	(s)	0	0	(s)	0	(s)	(s)	9	9	31
Mexico	1,319	-22	-81	-2	-31	-63	-8	-5	1	-210	1,109
Netherlands	0	(s)	3	-1	-1	(s)	-28	(s)	16	-10	-10
Netherlands Antilles	4	(s)	-2	13	-7	4	0	-1	38	44	48
Norway	226	9	3	0	0	(s)	-1	(s)	3	13	239
Oman	0	0	0	0	0	0	0	(s)	2	2	2
Panama	0	-1	-1	-1	-22	-9	(s)	(s)	(s)	-34	-34
Peru	42	0	(s)	0	-3	1	(s)	(s)	(s)	-3	39
Puerto Rico	0	(s)	(s)	-1	-1	(s)	0	6	8	12	12
Romania	0	0	0	0	1	0	0	(s)	3	4	4
Russia	13	(s)	(s)	(s)	(s)	(s)	0	(s)	(s)	-1	12
Syria	0	(s)	0	0	0	0	0	(s)	(s)	(s)	(s)
Spain	0	(s)	4	0	-1	2	-35	(s)	9	-21	-21
Sweden	0	0	(s)	0	(s)	0	-3	(s)	1	-2	-2
Thailand	0	(s)	0	0	-2	-2	(s)	(s)	(s)	-4	-4
Trinidad and Tobago	54	(s)	1	0	1	1	(s)	(s)	1	4	58
Turkey	0	0	(s)	0	(s)	0	-19	(s)	2	-17	-17
United Kingdom	134	7	5	(s)	(s)	9	-12	(s)	51	60	194
Virgin Islands	0	0	111	22	87	50	0	(s)	34	304	304
Yemen	7	0	0	0	0	0	0	0	0	0	7
Other	38	-2	9	-5	-29	-11	-29	-4	33	-39	-1
Total	**8,454**	**182**	**177**	**48**	**53**	**62**	**-272**	**-16**	**740**	**976**	**9,430**
Persian Gulf[d]	**1,945**	**5**	**22**	**(s)**	**1**	**6**	**-5**	**(s)**	**63**	**91**	**2,037**

[a] Includes crude oil imported for storage in the Strategic Petroleum Reserve.
[b] Includes asphalt and road oil, aviation gasoline, aviation gasoline blending components, kerosene, miscellaneous products, motor gasoline blending components, naphtha for petrochemical feedstock use, other hydrocarbons and oxygenates, other oils for petrochemical feedstock use, pentanes plus, special naphthas, unfinished oils, and waxes.
[c] Formerly Zaire.
[d] Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.
(s) = Less than 500 barrels per day.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-814, "Monthly Imports Report" and the U.S. Bureau of the Census.

Table 51. Stocks of Crude Oil and Petroleum Products by PAD District, August 1998
(Thousand Barrels)

Commodity	Petroleum Administration for Defense Districts					U. S. Total
	I	II	III	IV	V	
Crude Oil	**14,486**	**72,709**	**737,359**	**11,874**	**57,125**	**893,553**
Refinery	13,666	14,763	51,201	2,116	22,451	104,197
Tank Farms and Pipelines	802	56,989	109,029	8,960	27,123	202,903
Leases	18	957	13,703	798	810	16,286
Strategic Petroleum Reserve	0	0	563,426	0	0	563,426
Alaskan In Transit	0	0	0	0	6,741	6,741
Total Stocks, All Oils (excluding Crude Oil)	**190,223**	**188,283**	**290,580**	**16,076**	**92,853**	**778,015**
Refinery	59,443	66,347	150,261	10,334	63,083	349,468
Bulk Terminal	100,253	80,695	85,865	2,601	22,111	291,525
Pipeline	30,481	38,810	51,365	2,837	7,476	130,969
Natural Gas Processing Plant	46	2,431	3,089	304	183	6,053
Pentanes Plus	**32**	**2,589**	**6,381**	**214**	**67**	**9,283**
Refinery	0	412	461	18	0	891
Bulk Terminal	24	1,272	3,525	1	47	4,869
Pipeline	0	532	1,648	71	0	2,251
Natural Gas Processing Plant	8	373	747	124	20	1,272
Liquefied Petroleum Gases	**8,424**	**48,657**	**80,353**	**1,291**	**6,483**	**145,208**
Refinery	2,954	5,436	16,017	466	1,502	26,375
Bulk Terminal	3,010	33,431	47,003	176	4,818	88,438
Pipeline	2,422	7,732	14,991	469	0	25,614
Natural Gas Processing Plant	38	2,058	2,342	180	163	4,781
Ethane/Ethylene	**0**	**5,145**	**16,129**	**200**	**0**	**21,474**
Refinery	0	3	727	0	0	730
Bulk Terminal	0	2,904	12,226	0	0	15,130
Pipeline	0	1,902	2,791	197	0	4,890
Natural Gas Processing Plant	0	336	385	3	0	724
Propane/Propylene	**5,213**	**31,115**	**32,805**	**513**	**2,909**	**72,555**
Refinery	657	2,263	5,006	107	178	8,211
Bulk Terminal	2,174	24,552	18,788	170	2,600	48,284
Pipeline	2,355	3,238	8,391	152	0	14,136
Natural Gas Processing Plant	27	1,062	620	84	131	1,924
Normal Butane/Butylene	**2,810**	**9,674**	**25,907**	**390**	**3,050**	**41,831**
Refinery	1,965	2,694	8,379	243	929	14,210
Bulk Terminal	836	4,506	13,520	6	2,101	20,969
Pipeline	0	1,995	3,138	78	0	5,211
Natural Gas Processing Plant	9	479	870	63	20	1,441
Isobutane/Isobutylene	**401**	**2,723**	**5,512**	**188**	**524**	**9,348**
Refinery	332	476	1,905	116	395	3,224
Bulk Terminal	0	1,469	2,469	0	117	4,055
Pipeline	67	597	671	42	0	1,377
Natural Gas Processing Plant	2	181	467	30	12	692
Other Hydrocarbons/Hydrogen/Oxygenates	**2,105**	**1,887**	**4,315**	**402**	**3,842**	**12,551**
Refinery	1,718	486	2,121	148	2,763	7,236
Bulk Terminal	387	1,241	2,013	229	519	4,389
Pipeline	0	160	181	25	560	926
Other Hydrocarbons/Hydrogen	**0**	**24**	**1**	**0**	**4**	**29**
Refinery	0	24	1	0	4	29
Fuel Ethanol	**298**	**1,664**	**608**	**162**	**545**	**3,277**
Refinery	W	274	W	W	W	471
Bulk Terminal [a]	W	W	W	W	W	W
Pipeline	W	W	W	W	W	W
ETBE	**W**	**W**	**W**	**W**	**W**	**W**
Refinery	W	W	W	W	W	W
Bulk Terminal	W	W	W	W	W	W
Pipeline	W	W	W	W	W	W
Methanol	**W**	**W**	**W**	**W**	**W**	**863**
Refinery	W	W	W	W	W	863

See footnotes at end of table.

Table 51. Stocks of Crude Oil and Petroleum Products by PAD District, August 1998 (Continued)

(Thousand Barrels)

Commodity	Petroleum Administration for Defense Districts					U. S. Total
	I	II	III	IV	V	
MTBE	**1,353**	**W**	**3,157**	**W**	**3,224**	**8,130**
Refinery	1,205	W	1,679	W	2,663	5,765
Bulk Terminal	W	W	1,297	W	24	1,647
Pipeline	W	W	181	W	537	718
Other Oxygenates [b]	**W**	**W**	**W**	**W**	**W**	**W**
Refinery	W	W	W	W	W	W
Bulk Terminal	W	W	W	W	W	W
Pipeline	W	W	W	W	W	W
Unfinished Oils	**11,419**	**14,486**	**48,487**	**2,419**	**20,091**	**96,902**
Refinery						
Naphthas and Lighter	2,189	4,143	11,445	565	2,958	21,300
Kerosene and Light Gas Oils	1,920	2,024	7,913	365	5,213	17,435
Heavy Gas Oils	5,852	4,996	21,745	1,068	9,029	42,690
Residuum	1,458	3,323	7,384	421	2,891	15,477
Motor Gasoline Blending Components	**6,038**	**11,518**	**15,781**	**1,507**	**7,494**	**42,338**
Refinery	5,899	8,954	13,167	1,507	7,108	36,635
Bulk Terminal	139	803	1,341	0	100	2,383
Pipeline	0	1,761	1,273	0	286	3,320
Aviation Gasoline Blending Components	**77**	**33**	**31**	**0**	**2**	**143**
Refinery	77	33	31	0	2	143
Finished Motor Gasoline	**51,780**	**43,701**	**47,264**	**4,485**	**21,548**	**168,778**
Refinery	10,262	9,416	19,283	2,032	10,686	51,679
Bulk Terminal	26,935	19,276	10,111	1,232	7,774	65,328
Pipeline	14,583	15,009	17,870	1,221	3,088	51,771
Reformulated	**20,212**	**980**	**8,683**	**0**	**12,741**	**42,616**
Refinery	6,129	416	3,703	0	6,821	17,069
Bulk Terminal	9,937	359	1,866	0	4,169	16,331
Pipeline	4,146	205	3,114	0	1,751	9,216
Oxygenated	**162**	**320**	**35**	**160**	**633**	**1,310**
Refinery	7	213	0	0	0	220
Bulk Terminal	59	107	0	160	189	515
Pipeline	96	0	35	0	444	575
Other	**31,406**	**42,401**	**38,546**	**4,325**	**8,174**	**124,852**
Refinery	4,126	8,787	15,580	2,032	3,865	34,390
Bulk Terminal	16,939	18,810	8,245	1,072	3,416	48,482
Pipeline	10,341	14,804	14,721	1,221	893	41,980
Finished Aviation Gasoline	**228**	**304**	**386**	**34**	**595**	**1,547**
Refinery	42	130	342	24	204	742
Bulk Terminal	186	92	44	3	391	716
Pipeline	0	82	0	7	0	89
Naphtha-Type Jet Fuel	**0**	**0**	**1**	**0**	**41**	**42**
Refinery	0	0	1	0	37	38
Bulk Terminal	0	0	0	0	4	4
Pipeline	0	0	0	0	0	0
Kerosene-Type Jet Fuel	**11,091**	**8,807**	**17,448**	**826**	**8,339**	**46,511**
Refinery	1,265	3,348	8,715	400	4,334	18,062
Bulk Terminal	4,225	2,304	2,304	259	1,976	11,068
Pipeline	5,601	3,155	6,429	167	2,029	17,381

See footnotes at end of table.

Table 51. Stocks of Crude Oil and Petroleum Products by PAD District, August 1998 (Continued)

(Thousand Barrels)

Commodity	Petroleum Administration for Defense Districts					U. S. Total
	I	II	III	IV	V	
Kerosene	**3,063**	**1,028**	**1,994**	**88**	**96**	**6,269**
Refinery	309	305	898	83	80	1,675
Bulk Terminal	2,654	686	939	0	4	4,283
Pipeline	100	37	157	5	12	311
Distillate Fuel Oil	**70,703**	**34,805**	**31,931**	**2,644**	**10,383**	**150,466**
Refinery	16,139	10,425	16,420	1,241	5,459	49,684
Bulk Terminal	46,789	14,040	6,711	539	3,687	71,766
Pipeline	7,775	10,340	8,800	864	1,237	29,016
0.05 Percent Sulfur and Under	**19,831**	**24,416**	**18,815**	**2,241**	**7,536**	**72,839**
Refinery	3,029	6,555	8,846	948	4,114	23,492
Bulk Terminal	12,482	9,774	5,111	465	2,523	30,355
Pipeline	4,320	8,087	4,858	828	899	18,992
Greater than 0.05 Percent Sulfur	**50,872**	**10,389**	**13,116**	**403**	**2,847**	**77,627**
Refinery	13,110	3,870	7,574	293	1,345	26,192
Bulk Terminal	34,307	4,266	1,600	74	1,164	41,411
Pipeline	3,455	2,253	3,942	36	338	10,024
Residual Fuel Oil[c]	**16,505**	**2,660**	**14,898**	**529**	**7,101**	**41,693**
Refinery	5,358	1,880	6,268	529	4,925	18,960
Bulk Terminal	11,147	780	8,630	0	1,912	22,469
Pipeline	0	0	0	0	264	264
Less than 0.31% Sulfur	**4,216**	**165**	**357**	**36**	**801**	**5,575**
Refinery	1,281	0	143	36	759	2,219
Bulk Terminal	2,935	165	214	0	42	3,356
0.31 to 1.00% Sulfur	**6,267**	**503**	**4,172**	**290**	**1,073**	**12,305**
Refinery	2,532	255	665	290	885	4,627
Bulk Terminal	3,735	248	3,507	0	188	7,678
Greater than 1.00% Sulfur	**6,022**	**1,992**	**10,369**	**203**	**4,963**	**23,549**
Refinery	1,545	1,625	5,460	203	3,281	12,114
Bulk Terminal	4,477	367	4,909	0	1,682	11,435
Naphtha for Petrochemical Feedstock Use	**504**	**196**	**920**	**0**	**98**	**1,718**
Refinery	504	196	920	0	98	1,718
Other Oils for Petrochemical Feedstock Use	**0**	**63**	**2,357**	**1**	**217**	**2,638**
Refinery	0	63	2,357	1	217	2,638
Special Naphthas	**93**	**344**	**1,676**	**0**	**56**	**2,169**
Refinery	73	342	1,403	0	56	1,874
Bulk Terminal	20	2	273	0	0	295
Lubricants	**2,317**	**1,455**	**6,925**	**0**	**1,560**	**12,257**
Refinery	643	543	5,294	0	1,074	7,554
Bulk Terminal	1,674	912	1,631	0	486	4,703
Waxes	**55**	**180**	**559**	**52**	**190**	**1,036**
Refinery	55	180	559	52	190	1,036
Petroleum Coke	**601**	**3,650**	**3,742**	**246**	**2,459**	**10,698**
Refinery	601	3,650	3,742	246	2,459	10,698
Asphalt and Road Oil	**5,098**	**11,639**	**3,855**	**1,311**	**2,037**	**23,940**
Refinery	2,073	5,922	3,087	1,167	1,681	13,930
Bulk Terminal	3,025	5,717	768	144	356	10,010
Miscellaneous Products	**90**	**281**	**1,276**	**27**	**154**	**1,828**
Refinery	52	140	688	1	117	998
Bulk Terminal	38	139	572	18	37	804
Pipeline	0	2	16	8	0	26
Total Stocks, All Oils	**204,709**	**260,992**	**1,027,939**	**27,950**	**149,978**	**1,671,568**

[a] Includes stocks held by producers.
[b] Includes tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers Intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).
[c] Sulfur content not available for stocks held by pipelines.
W = Withheld to avoid disclosure of individual company data.
Note: Stocks are reported as of the last day of the month.
Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-811, "Monthly Bulk Terminal Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," and EIA-816, "Monthly Natural Gas Liquids Report."

Table 52. Refinery, Bulk Terminal, and Natural Gas Plant Stocks of Selected Petroleum Products by PAD District and State, August 1998

(Thousand Barrels)

PAD District and State	Motor Gasoline				Kerosene	Distillate Fuel Oil			Residual Fuel	Propane/ Propylene
	Total	Reformulated	Oxygenated	Other		Total	0.05% Sulfur and Under	Greater than 0.05% Sulfur		
PAD District I	**37,197**	**16,066**	**66**	**21,065**	**2,963**	**62,928**	**15,511**	**47,417**	**16,505**	**2,858**
Connecticut	1,479	1,479	0	0	65	5,926	665	5,261	86	W
Delaware, D.C., Maryland	1,573	1,144	0	429	213	5,543	836	4,707	3,011	W
Florida	5,396	0	0	5,396	96	2,267	1,387	880	1,101	74
Georgia	2,050	0	0	2,050	47	1,390	985	405	157	W
Maine, New Hampshire, Vermont	1,234	891	0	343	449	2,497	617	1,880	603	W
Massachusetts	757	757	0	0	269	5,229	323	4,906	562	W
New Jersey	8,771	7,364	0	1,407	520	16,689	3,539	13,150	4,934	W
New York	2,971	977	59	1,935	340	8,897	1,509	7,388	3,163	W
North Carolina	2,608	0	0	2,608	231	1,957	1,024	933	222	W
Pennsylvania	5,931	1,591	0	4,340	433	7,256	2,413	4,843	1,414	W
Rhode Island	510	510	0	0	W	1,536	195	1,341	W	W
South Carolina	1,280	0	0	1,280	147	787	509	278	W	W
Virginia	2,433	1,353	0	1,080	101	2,797	1,374	1,423	547	W
West Virginia	204	0	7	197	W	157	135	22	W	W
PAD District II	**28,692**	**775**	**320**	**27,597**	**991**	**24,465**	**16,329**	**8,136**	**2,660**	**27,877**
Illinois	3,855	230	0	3,625	169	3,660	2,635	1,025	1,049	851
Indiana	4,335	110	7	4,218	206	4,020	2,153	1,867	278	W
Iowa	1,281	0	0	1,281	W	1,396	1,182	214	W	W
Kansas, Nebraska	2,364	0	0	2,364	1	2,288	1,873	415	10	19,635
Kentucky	1,528	343	0	1,185	52	1,014	494	520	W	W
Michigan	2,570	0	0	2,570	136	1,808	1,321	487	92	4,697
Minnesota	1,383	0	213	1,170	W	1,887	1,553	334	228	W
Missouri	1,460	0	0	1,460	W	730	613	117	W	W
North Dakota, South Dakota	774	0	2	772	W	780	455	325	W	W
Ohio	4,240	58	0	4,182	286	2,110	1,344	766	199	W
Oklahoma	1,483	0	3	1,480	W	1,245	753	492	153	590
Tennessee	2,118	0	95	2,023	31	1,274	856	418	339	W
Wisconsin	1,301	34	0	1,267	W	2,253	1,097	1,156	45	W
PAD District III	**29,394**	**5,569**	**0**	**23,825**	**1,837**	**23,131**	**13,957**	**9,174**	**14,898**	**24,414**
Alabama	1,448	0	0	1,448	42	839	532	307	168	92
Arkansas	895	0	0	895	W	573	327	246	W	W
Louisiana	6,825	353	0	6,472	432	5,550	2,975	2,575	7,243	2,451
Mississippi	2,184	0	0	2,184	638	1,919	784	1,135	W	6,250
New Mexico	434	0	0	434	W	317	219	98	6	W
Texas	17,608	5,216	0	12,392	711	13,933	9,120	4,813	7,223	15,491
PAD District IV	**3,264**	**0**	**160**	**3,104**	**83**	**1,780**	**1,413**	**367**	**529**	**361**
Colorado	963	0	160	803	W	324	271	53	W	W
Idaho	283	0	0	283	W	197	127	70	W	W
Montana	916	0	0	916	W	440	440	0	68	16
Utah	556	0	0	556	W	439	246	193	110	258
Wyoming	546	0	0	546	W	380	329	51	W	46
PAD District V	**18,460**	**10,990**	**189**	**7,281**	**84**	**9,146**	**6,637**	**2,509**	**6,837**	**2,909**
Alaska	469	0	0	469	W	584	43	541	W	W
Arizona	872	221	186	465	W	578	529	49	W	W
California	12,184	10,769	0	1,415	80	5,080	4,411	669	4,055	675
Hawaii	706	0	0	706	W	559	124	435	W	W
Nevada	126	0	3	123	W	89	77	12	W	W
Oregon	1,059	0	0	1,059	W	568	396	172	306	W
Washington	3,044	0	0	3,044	W	1,688	1,057	631	1,077	426
U.S. Total	**117,007**	**33,400**	**735**	**82,872**	**5,958**	**121,450**	**53,847**	**67,603**	**41,429**	**58,419**

W = Withheld to avoid disclosure of individual company data.

Notes: • Stocks are reported as of the last day of the month. • Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-811, "Monthly Bulk Terminal Report," and EIA-816, "Monthly Natural Gas Liquids Report."

Table 53. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, and Barge Between PAD Districts, August 1998
(Thousand Barrels)

Commodity	From I to			From II to				From III to	
	II	III	V	I	III	IV	V	I	II
Crude Oil	**0**	**404**	**0**	**203**	**883**	**428**	**0**	**0**	**66,497**
Petroleum Products	**9,666**	**20**	**0**	**2,431**	**5,952**	**3,346**	**0**	**97,579**	**32,040**
Pentanes Plus	0	0	0	0	179	1	0	0	820
Liquefied Petroleum Gases	0	0	0	551	4,221	38	0	2,331	2,333
Unfinished Oils	26	0	0	28	0	0	0	0	117
Motor Gasoline Blending Components	10	1	0	25	0	0	0	627	2,493
Finished Motor Gasoline	6,475	0	0	670	1,067	1,461	0	56,431	13,173
Reformulated	0	0	0	0	501	0	0	9,435	981
Oxygenated	0	0	0	0	0	0	0	0	0
Other	6,475	0	0	670	566	1,461	0	46,996	12,192
Finished Aviation Gasoline	0	0	0	0	0	15	0	109	143
Jet Fuel	272	0	0	117	7	1,006	0	12,341	5,121
Naphtha-Type	0	0	0	0	0	0	0	0	0
Kerosene-Type	272	0	0	117	7	1,006	0	12,341	5,121
Kerosene	0	0	0	4	0	0	0	294	22
Distillate Fuel Oil	2,839	0	0	671	363	825	0	22,085	6,127
0.05 percent sulfur and under	2,157	0	0	276	293	825	0	15,480	5,248
Greater than 0.05 percent sulfur	682	0	0	395	70	0	0	6,605	879
Residual Fuel Oil	0	0	0	27	85	0	0	2,006	120
Petrochemical Feedstocks[a]	44	0	0	0	0	0	0	154	359
Special Naphthas	0	0	0	0	0	0	0	78	118
Lubricants	0	19	0	46	30	0	0	817	368
Waxes	0	0	0	0	0	0	0	2	0
Asphalt and Road Oil	0	0	0	292	0	0	0	304	726
Miscellaneous Products	0	0	0	0	0	0	0	0	0
Total	**9,666**	**424**	**0**	**2,634**	**6,835**	**3,774**	**0**	**97,579**	**98,537**

Commodity	From III to		From IV to			From V to			
	IV	V	II	III	V	I	II	III	IV
Crude Oil	**0**	**0**	**1,547**	**897**	**0**	**0**	**0**	**1,462**	**0**
Petroleum Products	**465**	**2,801**	**2,174**	**2,435**	**905**	**0**	**0**	**91**	**0**
Pentanes Plus	0	0	178	277	0	0	0	0	0
Liquefied Petroleum Gases	0	0	1,377	2,158	0	0	0	0	0
Unfinished Oils	0	0	0	0	0	0	0	0	0
Motor Gasoline Blending Components	0	0	0	0	0	0	0	0	0
Finished Motor Gasoline	375	1,680	421	0	565	0	0	0	0
Reformulated	0	0	0	0	0	0	0	0	0
Oxygenated	0	554	0	0	0	0	0	0	0
Other	375	1,126	421	0	565	0	0	0	0
Finished Aviation Gasoline	0	0	0	0	0	0	0	0	0
Jet Fuel	45	705	11	0	103	0	0	0	0
Naphtha-Type	0	0	0	0	0	0	0	0	0
Kerosene-Type	45	705	11	0	103	0	0	0	0
Kerosene	0	0	0	0	0	0	0	0	0
Distillate Fuel Oil	45	416	187	0	237	0	0	0	0
0.05 percent sulfur and under	45	281	187	0	237	0	0	0	0
Greater than 0.05 percent sulfur	0	135	0	0	0	0	0	0	0
Residual Fuel Oil	0	0	0	0	0	0	0	0	0
Petrochemical Feedstocks[a]	0	0	0	0	0	0	0	0	0
Special Naphthas	0	0	0	0	0	0	0	0	0
Lubricants	0	0	0	0	0	0	0	91	0
Waxes	0	0	0	0	0	0	0	0	0
Asphalt and Road Oil	0	0	0	0	0	0	0	0	0
Miscellaneous Products	0	0	0	0	0	0	0	0	0
Total	**465**	**2,801**	**3,721**	**3,332**	**905**	**0**	**0**	**1,553**	**0**

[a] Includes naphtha less than 401° F endpoint and other oils equal to or greater than 401° F endpoint.

Sources: Energy Information Administration (EIA) Forms EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," and EIA-817, "Monthly Tanker and Barge Movement Report."

Table 54. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, August 1998
(Thousand Barrels)

Commodity	From I to		From II to			From III to	
	II	III	I	III	IV	I	II
Crude Oil	**0**	**404**	**120**	**883**	**428**	**0**	**66,497**
Petroleum Products	**9,586**	**0**	**553**	**5,567**	**3,346**	**71,933**	**26,354**
Pentanes Plus	0	0	0	179	1	0	820
Liquefied Petroleum Gases	0	0	551	4,221	38	2,102	2,333
Motor Gasoline Blending Components	0	0	0	0	0	0	2,427
Finished Motor Gasoline	6,475	0	0	937	1,461	42,644	10,786
Reformulated	0	0	0	501	0	9,435	501
Oxygenated	0	0	0	0	0	0	0
Other	6,475	0	0	436	1,461	33,209	10,285
Finished Aviation Gasoline	0	0	0	0	15	0	115
Jet Fuel	272	0	2	0	1,006	9,233	4,973
Naphtha-Type	0	0	0	0	0	0	0
Kerosene-Type	272	0	2	0	1,006	9,233	4,973
Kerosene	0	0	0	0	0	294	0
Distillate Fuel Oil	2,839	0	0	230	825	17,660	4,900
0.05 percent sulfur and under	2,157	0	0	160	825	12,438	4,788
Greater than 0.05 percent sulfur	682	0	0	70	0	5,222	112
Residual Fuel Oil	0	0	0	0	0	0	0
Miscellaneous Products	0	0	0	0	0	0	0
Total	**9,586**	**404**	**673**	**6,450**	**3,774**	**71,933**	**92,851**

Commodity	From III to		From IV to			From V to	
	IV	V	II	III	V	III	IV
Crude Oil	**0**	**0**	**1,547**	**897**	**0**	**1,462**	**0**
Petroleum Products	**465**	**2,548**	**2,174**	**2,435**	**905**	**0**	**0**
Pentanes Plus	0	0	178	277	0	0	0
Liquefied Petroleum Gases	0	0	1,377	2,158	0	0	0
Motor Gasoline Blending Components	0	0	0	0	0	0	0
Finished Motor Gasoline	375	1,680	421	0	565	0	0
Reformulated	0	0	0	0	0	0	0
Oxygenated	0	554	0	0	0	0	0
Other	375	1,126	421	0	565	0	0
Finished Aviation Gasoline	0	0	0	0	0	0	0
Jet Fuel	45	452	11	0	103	0	0
Naphtha-Type	0	0	0	0	0	0	0
Kerosene-Type	45	452	11	0	103	0	0
Kerosene	0	0	0	0	0	0	0
Distillate Fuel Oil	45	416	187	0	237	0	0
0.05 percent sulfur and under	45	281	187	0	237	0	0
Greater than 0.05 percent sulfur	0	135	0	0	0	0	0
Residual Fuel Oil	0	0	0	0	0	0	0
Miscellaneous Products	0	0	0	0	0	0	0
Total	**465**	**2,548**	**3,721**	**3,332**	**905**	**1,462**	**0**

Sources: Energy Information Administration (EIA) Forms EIA-812, “Monthly Product Pipeline Report,” and EIA-813, Monthly Crude Oil Report."

Table 55. Movements of Crude Oil and Petroleum Products by Tanker and Barge Between PAD Districts, August 1998
(Thousand Barrels)

Commodity	From I to			From II to			From III to	
	II	III	V	I	III	V	I	New England
Crude Oil	**0**	**0**	**0**	**83**	**0**	**0**	**0**	**0**
Petroleum Products	**80**	**20**	**0**	**1,878**	**385**	**0**	**25,646**	**174**
Liquefied Petroleum Gases	0	0	0	0	0	0	229	0
Unfinished Oils	26	0	0	28	0	0	0	0
Motor Gasoline Blending Components	10	1	0	25	0	0	627	0
Finished Motor Gasoline	0	0	0	670	130	0	13,787	0
Reformulated	0	0	0	0	0	0	0	0
Oxygenated	0	0	0	0	0	0	0	0
Other	0	0	0	670	130	0	13,787	0
Finished Aviation Gasoline	0	0	0	0	0	0	109	15
Jet Fuel	0	0	0	115	7	0	3,108	0
Naphtha-Type	0	0	0	0	0	0	0	0
Kerosene-Type	0	0	0	115	7	0	3,108	0
Kerosene	0	0	0	4	0	0	0	0
Distillate Fuel Oil	0	0	0	671	133	0	4,425	0
0.05 percent sulfur and under	0	0	0	276	133	0	3,042	0
Greater then 0.05 percent sulfur	0	0	0	395	0	0	1,383	0
Residual Fuel Oil	0	0	0	27	85	0	2,006	159
Less than 0.31 percent sulfur	0	0	0	0	0	0	0	0
0.31 to 1.00 percent sulfur	0	0	0	0	0	0	0	0
Greater than 1.00 percent sulfur	0	0	0	27	85	0	2,006	159
Petrochemical Feedstocks[a]	44	0	0	0	0	0	154	0
Special Naphthas	0	0	0	0	0	0	78	0
Lubricants	0	19	0	46	30	0	817	0
Waxes	0	0	0	0	0	0	2	0
Asphalt and Road Oil	0	0	0	292	0	0	304	0
Miscellaneous Products	0	0	0	0	0	0	0	0
Total	**80**	**20**	**0**	**1,961**	**385**	**0**	**25,646**	**174**

Commodity	From III to				From V to		
	Central Atlantic	Lower Atlantic	II	V	I	II	III
Crude Oil	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Petroleum Products	**1,671**	**23,801**	**5,686**	**253**	**0**	**0**	**91**
Liquefied Petroleum Gases	0	229	0	0	0	0	0
Unfinished Oils	0	0	117	0	0	0	0
Motor Gasoline Blending Components	603	24	66	0	0	0	0
Finished Motor Gasoline	109	13,678	2,387	0	0	0	0
Reformulated	0	0	480	0	0	0	0
Oxygenated	0	0	0	0	0	0	0
Other	109	13,678	1,907	0	0	0	0
Finished Aviation Gasoline	29	65	28	0	0	0	0
Jet Fuel	48	3,060	148	253	0	0	0
Naphtha-Type	0	0	0	0	0	0	0
Kerosene-Type	48	3,060	148	253	0	0	0
Kerosene	0	0	22	0	0	0	0
Distillate Fuel Oil	195	4,230	1,227	0	0	0	0
0.05 percent sulfur and under	67	2,975	460	0	0	0	0
Greater then 0.05 percent sulfur	128	1,255	767	0	0	0	0
Residual Fuel Oil	123	1,724	120	0	0	0	0
Less than 0.31 percent sulfur	0	0	0	0	0	0	0
0.31 to 1.00 percent sulfur	0	0	0	0	0	0	0
Greater than 1.00 percent sulfur	123	1,724	120	0	0	0	0
Petrochemical Feedstocks[a]	0	154	359	0	0	0	0
Special Naphthas	36	42	118	0	0	0	0
Lubricants	400	417	368	0	0	0	91
Waxes	2	0	0	0	0	0	0
Asphalt and Road Oil	126	178	726	0	0	0	0
Miscellaneous Products	0	0	0	0	0	0	0
Total	**1,671**	**23,801**	**5,686**	**253**	**0**	**0**	**91**

[a] Includes naphtha less than 401° F endpoint and other oils equal to or greater than 401° F endpoint.
Source: Energy Information Administration (EIA) Form EIA-817, "Monthly Tanker and Barge Movement Report."

Table 56. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, and Barge Between PAD Districts, August 1998
(Thousand Barrels)

Commodity	PAD District I			PAD District II		
	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts
Crude Oil	**203**	**404**	**-201**	**68,044**	**1,514**	**66,530**
Petroleum Products	**100,010**	**9,686**	**90,324**	**43,880**	**11,729**	**32,151**
Pentanes Plus	0	0	0	998	180	818
Liquefied Petroleum Gases	2,882	0	2,882	3,710	4,810	-1,100
Ethane/Ethylene	0	0	0	616	2,453	-1,837
Propane/Propylene	2,773	0	2,773	2,115	1,427	688
Normal Butane/Butylene	59	0	59	486	787	-301
Isobutane/Isobutylene	50	0	50	493	143	350
Unfinished Oils	28	26	2	143	28	115
Motor Gasoline Blending Components	652	11	641	2,503	25	2,478
Finished Motor Gasoline	57,101	6,475	50,626	20,069	3,198	16,871
Reformulated	9,435	0	9,435	981	501	480
Oxygenated	0	0	0	0	0	0
Other	47,666	6,475	41,191	19,088	2,697	16,391
Finished Aviation Gasoline	109	0	109	143	15	128
Jet Fuel	12,458	272	12,186	5,404	1,130	4,274
Naphtha-Type	0	0	0	0	0	0
Kerosene-Type	12,458	272	12,186	5,404	1,130	4,274
Kerosene	298	0	298	22	4	18
Distillate Fuel Oil	22,756	2,839	19,917	9,153	1,859	7,294
0.05 percent sulfur and under	15,756	2,157	13,599	7,592	1,394	6,198
Greater than 0.05 percent sulfur	7,000	682	6,318	1,561	465	1,096
Residual Fuel Oil	2,033	0	2,033	120	112	8
Petrochemical Feedstocks[a]	154	44	110	403	0	403
Special Naphthas	78	0	78	118	0	118
Lubricants	863	19	844	368	76	292
Waxes	2	0	2	0	0	0
Asphalt and Road Oil	596	0	596	726	292	434
Miscellaneous Products	0	0	0	0	0	0
Total	**100,213**	**10,090**	**90,123**	**111,924**	**13,243**	**98,681**

Commodity	PAD District III			PAD District IV			PAD District V		
	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts
Crude Oil	**3,646**	**66,497**	**-62,851**	**428**	**2,444**	**-2,016**	**0**	**1,462**	**-1,462**
Petroleum Products	**8,498**	**132,885**	**-124,387**	**3,811**	**5,514**	**-1,703**	**3,706**	**91**	**3,615**
Pentanes Plus	456	820	-364	1	455	-454	0	0	0
Liquefied Petroleum Gases	6,379	4,664	1,715	38	3,535	-3,497	0	0	0
Ethane/Ethylene	3,443	201	3,242	0	1,405	-1,405	0	0	0
Propane/Propylene	1,561	3,716	-2,155	37	1,343	-1,306	0	0	0
Normal Butane/Butylene	1,081	353	728	1	487	-486	0	0	0
Isobutane/Isobutylene	294	394	-100	0	300	-300	0	0	0
Unfinished Oils	0	117	-117	0	0	0	0	0	0
Motor Gasoline Blending Components	1	3,120	-3,119	0	0	0	0	0	0
Finished Motor Gasoline	1,067	71,659	-70,592	1,836	986	850	2,245	0	2,245
Reformulated	501	10,416	-9,915	0	0	0	0	0	0
Oxygenated	0	554	-554	0	0	0	554	0	554
Other	566	60,689	-60,123	1,836	986	850	1,691	0	1,691
Finished Aviation Gasoline	0	252	-252	15	0	15	0	0	0
Jet Fuel	7	18,212	-18,205	1,051	114	937	808	0	808
Naphtha-Type	0	0	0	0	0	0	0	0	0
Kerosene-Type	7	18,212	-18,205	1,051	114	937	808	0	808
Kerosene	0	316	-316	0	0	0	0	0	0
Distillate Fuel Oil	363	28,673	-28,310	870	424	446	653	0	653
0.05 percent sulfur and under	293	21,054	-20,761	870	424	446	518	0	518
Greater than 0.05 percent sulfur	70	7,619	-7,549	0	0	0	135	0	135
Residual Fuel Oil	85	2,126	-2,041	0	0	0	0	0	0
Petrochemical Feedstocks[a]	0	513	-513	0	0	0	0	0	0
Special Naphthas	0	196	-196	0	0	0	0	0	0
Lubricants	140	1,185	-1,045	0	0	0	0	91	-91
Waxes	0	2	-2	0	0	0	0	0	0
Asphalt and Road Oil	0	1,030	-1,030	0	0	0	0	0	0
Miscellaneous Products	0	0	0	0	0	0	0	0	0
Total	**12,144**	**199,382**	**-187,238**	**4,239**	**7,958**	**-3,719**	**3,706**	**1,553**	**2,153**

[a] Includes naphtha less than 401° F endpoint and other oils equal to or greater than 401° F endpoint.

Sources: Energy Information Administration (EIA) Forms EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," and EIA-817, "Monthly Tanker and Barge Movement Report."

Appendix A

District Descriptions and Maps

The following are the Refining Districts which make up 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: The States of Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island and Vermont.

***Central Atlantic*:** The District of Columbia and the States of Delaware, Maryland, New Jersey, New York, and Pennsylvania.

***Lower Atlantic*:** 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, Nueces, 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.

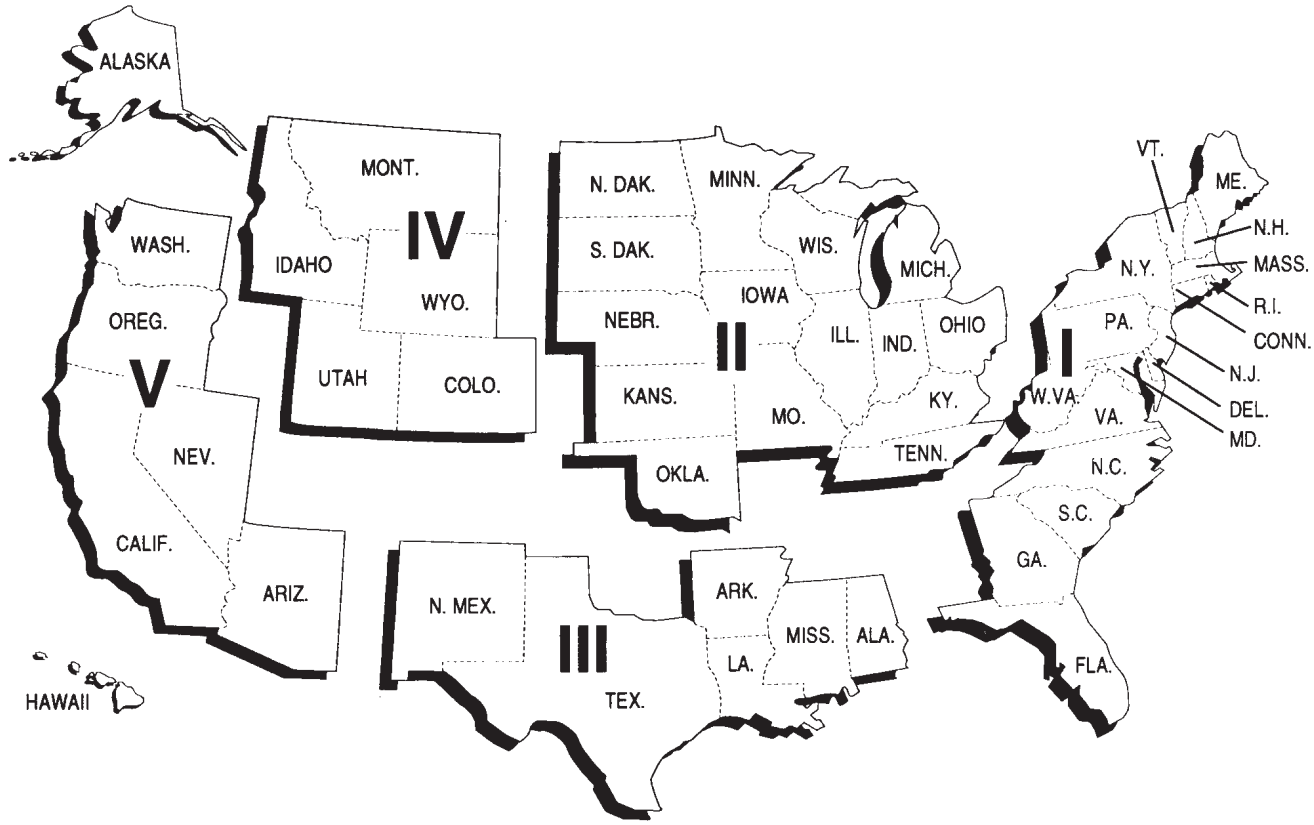
PAD District IV

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

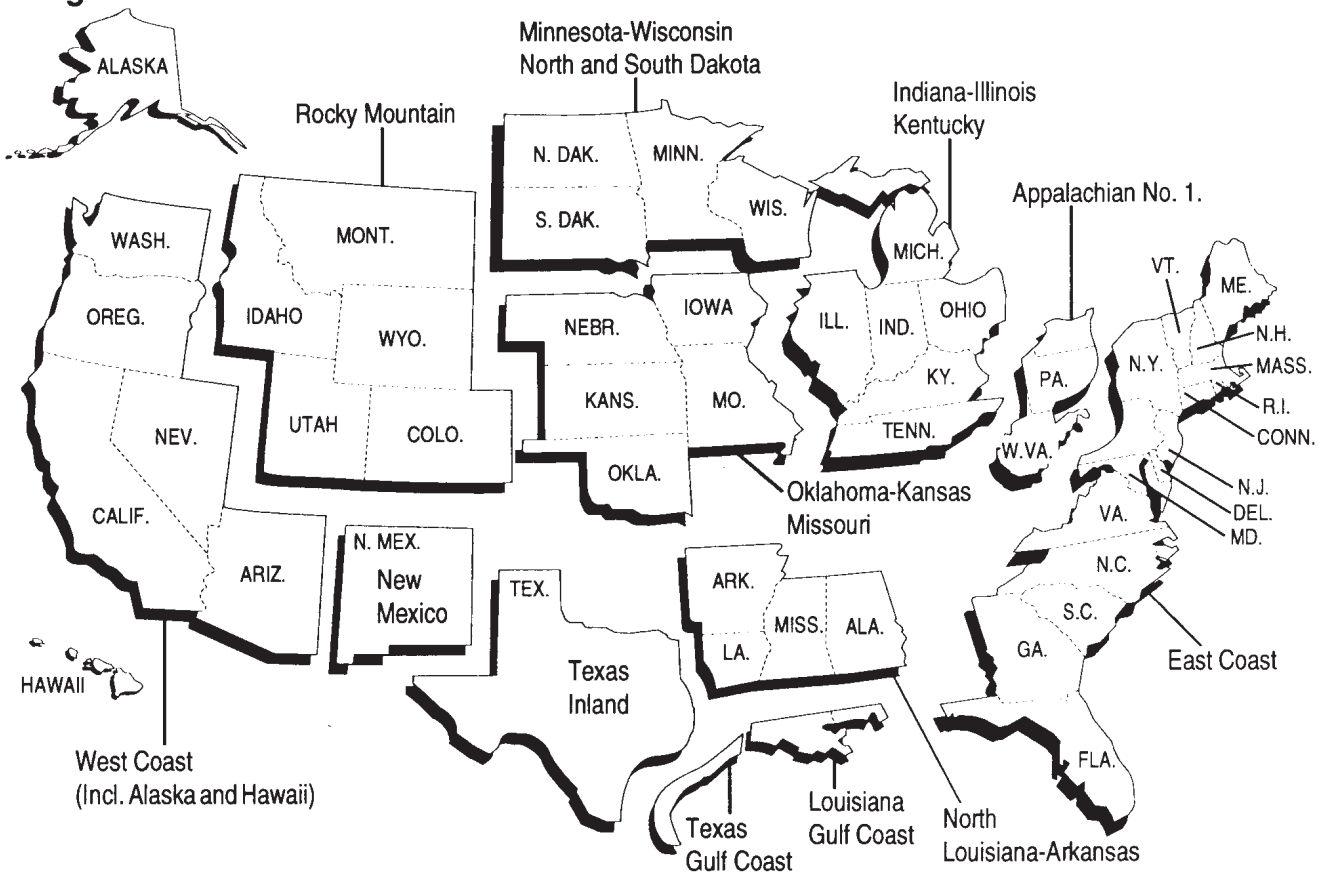
PAD District V

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

Petroleum Administration for Defense (PAD) Districts



Refining Districts



Appendix B

Explanatory Notes

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

- Note 1. Petroleum Supply Reporting System
- Note 2. Monthly Petroleum Supply Reporting System
- Note 3. Technical Notes for Detailed Statistics Tables
- Note 4. Domestic Crude Oil Production
- Note 5. Export Data
- Note 6. Quality Control and Data Revision
- Note 7. Frames Maintenance
- Note 8. Practical Limitations of Data Collection Efforts
- Note 9. 1994 Changes in the Petroleum Supply Monthly

Note 1. Petroleum Supply Reporting System

The Petroleum Supply Reporting System (PSRS) represents a family of data collection survey forms, data processing systems, and publication systems that have been consolidated to achieve comparability and consistency throughout. The survey forms that comprise the PSRS are listed below:

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 Stocks Report"
EIA-804	"Weekly Imports Report"
EIA-807	"Propane Telephone Survey"
EIA-810	"Monthly Refinery Report"
EIA-811	"Monthly Bulk Terminal Report"
EIA-812	"Monthly Product Pipeline Report"
EIA-813	"Monthly Crude Oil Report"
EIA-814	"Monthly Imports Report"
EIA-816	"Monthly Natural Gas Liquids Report"
EIA-817	"Monthly Tanker and Barge Movement Report"
EIA-819M	"Monthly Oxygenate Telephone Report"
EIA-820	"Biennial Refinery Report"

Forms EIA-800 through 804 comprise the Weekly Petroleum Supply Reporting System (WPSRS). 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. Data collected from the WPSRS are used to develop estimates of the most current monthly quantities in the Summary Statistics section of the *Petroleum Supply Monthly* (PSM) and which appear in the *Weekly Petroleum Status Report* (WPSR).

The Form EIA-807, "Propane Telephone Survey" is used to collect data on production, stocks, and imports of propane. These data are used to monitor the supply of propane and to report to the Congress and others on supplies when requested. Data are collected from a sample of respondents reporting on the Monthly Petroleum Supply Reporting System (MPSRS) surveys. Data are collected on a weekly basis during the heating season (October through March) and published electronically in the *Winter Fuels Report*. During the non-heating season (April through September) data are collected on end-of-month stocks only. These data are published in the *WPSR*.

Forms EIA-810 through 814, 816, and 817 comprise the MPSRS. These surveys are used to collect detailed refinery/blender and natural gas plant operations data; refinery/blender, bulk terminal, natural gas plant, and pipeline stocks data; crude oil and petroleum product imports data; and data on movements of petroleum products and crude oil between Petroleum Administration for Defense (PAD) Districts. A description of the MPSRS forms follows in Explanatory Note 2.

Data from these surveys are published in preliminary form in the *PSM*. They are published in final form in the *Petroleum Supply Annual* (PSA), Volumes 1 and 2.

Summary information on the revision error between preliminary and final data is published once a year in the *PSM* feature article entitled, "Accuracy of Petroleum Supply Data." The last article was published in the September 1996 issue and evaluated the accuracy of the data for the current year compared with the previous year.

The Form EIA-819M, "Monthly Oxygenate Telephone Report," is used to collect preliminary data on production and stocks of oxygenates by PAD District. These data are

used to monitor the supply of oxygenates. Data are collected from a sample of respondents reporting on the MPSRS surveys and from the universe of oxygenate producers. Data are published in Appendix D of this publication and in the *WPSR*.

The Form EIA-820, "Annual Refinery Report," is used to collect data on refinery fuel use and consumption of steam and electricity, refinery receipts of crude oil by method of transportation, operable capacity for atmospheric crude oil distillation units and downstream units, as well as production capacity and storage capacity for petroleum products. This survey is the primary source of data in the Refinery Capacity section of the *PSA* Volume 1.

Note 2. Monthly Petroleum Supply Reporting System

The Monthly Petroleum Supply Reporting System (MPSRS) was implemented in January 1983 as the result of an extensive effort by the Energy Information Administration (EIA) to integrate the collection and processing of petroleum supply data that had been collected on other survey forms for many years. The collection of monthly petroleum supply statistics began as early as 1918 when the U.S. Bureau of Mines began collecting data on refinery operations, crude oil stocks and movements. The collection systems were further expanded in 1925 to include natural gas plant liquids production and storage, imports of crude oil and petroleum products and storage and movement of petroleum products in 1959, and tanker and barge movements of crude oil and petroleum products in 1964. Since their inception, each survey has undergone numerous changes, but the MPSRS was the first effort to make them all consistent and comparable. 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-813	"Monthly Crude Oil Report"
EIA-814	"Monthly Imports Report"
EIA-816	"Monthly Natural Gas Liquids Report"
EIA-817	"Monthly Tanker and Barge Movement Report"
EIA-819M	"Monthly Oxygenate Telephone Report"

Respondent Frame

Form EIA-810, "Monthly Refinery Report" - Operators of all operating and idle petroleum refineries and blending plants located in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, Guam and other U.S. possessions. Approximately 260 respondents report on the Form EIA-810.

Form EIA-811, "Monthly Bulk Terminal Report" - Every bulk terminal operating company located in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, and other U.S. possessions. A bulk terminal is primarily used for storage and/or marketing of petroleum products and has a total bulk storage capacity of 50,000 barrels or more, and/or receives petroleum products by tanker, barge, or pipeline. Bulk terminal facilities associated with a product pipeline are included. In addition, the Form EIA-811 must be completed by merchant oxygenate plants that produce oxygenates. Approximately 320 respondents report on the Form EIA-811.

Form EIA-812, "Monthly Product Pipeline Report" - All product pipeline companies that carry petroleum products (including interstate, intrastate, and intracompany pipelines) in the 50 States and the District of Columbia. Approximately 80 respondents report on the Form EIA-812.

Form EIA-813, "Monthly Crude Oil Report" - All companies which carry or store 1,000 barrels or more of crude oil. Included in this survey are gathering and trunk pipeline companies (including interstate, intrastate, and intracompany pipelines), crude oil producers, terminal operators, storers of crude oil (except refineries), and companies transporting Alaskan crude oil by water in the 50 States and the District of Columbia. Approximately 175 respondents report on the Form EIA-813.

Form EIA-814, "Monthly Imports Report" - All companies, including subsidiary or affiliated companies, that import crude oil or petroleum products (1) into the 50 States and the District of Columbia, (2) into Puerto Rico, the Virgin Islands and other U.S. possessions (Guam, Midway Islands, Wake Island, American Samoa, and Northern Mariana Islands), and (3) from Puerto Rico, the Virgin Islands and other U.S. possessions into the 50 States and the District of Columbia. Imports into Foreign Trade Zones located in the 50 States and the District of Columbia are considered imports into the 50 States and the District of Columbia and must be reported. A report is required only if there has been an import during the month unless the importer has been selected as part of a sample to report every month regardless of activity. Approximately 220 respondents report on the Form EIA-814.

Form EIA-816, "Monthly Natural Gas Liquids Report" -Operators of all facilities that extract liquid hydrocarbons from a natural gas stream (natural gas processing plant) and/or separate a liquid hydrocarbon stream into its component products (fractionator). Approximately 585 respondents report on the Form EIA-816.

Form EIA-817, "Monthly Tanker and Barge Movement Report" -All companies that have custody of crude oil or petroleum products transported by tanker or barge between Petroleum Administration for Defense (PAD) Districts or between the Panama Canal and the United States. For purposes of this report, custody is defined as physical possession of crude oil or petroleum products on a company-owned tanker or barge. Also, companies which lease

vessels or contract for the movement of crude oil or petroleum products on a tanker or barge between PAD Districts or between the Panama Canal and the United States are considered to have custody. Approximately 40 respondents report on the Form EIA-817.

Form EIA-819M, "Monthly Oxygenate Telephone Report" - The sample of companies that report on the EIA-819M are selected from the universe of companies that report on the MPSRS surveys and from the universe of oxygenate producers. The universe consists of (1) operators of facilities that produce (manufacture or distill) oxygenates (including MTBE plants, petrochemical plants, and refineries that produce oxygenates as part of their operations); (2) operators of petroleum refineries; and (3) operators of bulk terminals, bulk stations, blending plants, and other nonrefinery facilities that store and/or blend oxygenate. Approximately 85 respondents report on the Form EIA-819M.

Sampling

The sampling procedure used for the survey Form EIA-819M is the cut-off method and is performed using software developed by EIA's Office of Statistical Standards. In the cut-off method, companies are ranked from largest to smallest on the basis of quantities reported (oxygenate production and oxygenate stocks.) Companies are chosen for the sample beginning with the largest and adding companies until the total sample covers approximately 90 percent of the total for each oxygenate item and supply type by geographic region (PAD Districts I through V) for which data may be published.

Description of Survey Forms

The Form EIA-810, "Monthly Refinery Report," is used to collect data on refinery input and capacity, sulfur content and API gravity of crude oil, and data on supply (beginning stocks, receipts, and production) and disposition (inputs, shipments, fuel use and losses, and ending stocks) of crude oil and refined products.

The Form EIA-811, "Monthly Bulk Terminal Report," is used to collect data on end-of-month stock levels of finished petroleum products by State in the custody of the bulk terminal company or merchant oxygenate plant regardless of ownership. Leased tankage at other facilities is excluded. All domestic and foreign stocks held at bulk terminals and in-transit thereto, except those in-transit by pipeline are included. Petroleum products in-transit by pipeline are reported by pipeline operators on Form EIA-812, "Monthly Product Pipeline Report."

The Form EIA-812, "Monthly Product Pipeline Report," is used to collect data on end-of-month stock levels and movements of petroleum products transported by pipeline. Intermediate movements for pipeline systems operating in more than two PAD Districts are included.

The Form EIA-813, "Monthly Crude Oil Report," is used to collect data on end-of-month stocks of crude oil held at pipeline and tank farms (associated with the pipelines) and terminals operated by the reporting company. Also, crude oil consumed by pipelines and on leases as pump fuel, boiler fuel, etc., is reported. Data are reported on a PAD District basis.

Total Alaskan crude oil stocks in-transit by water (including stocks held at transshipment terminals between Alaska and the continental United States) to the 50 States, the District of Columbia, Puerto Rico, and the Virgin Islands are also reported by the transporting company having custody of the stocks.

Inter-PAD District movements of crude oil by pipeline are collected by the shipping and receiving PAD District. Intermediate movements for pipeline systems operating in more than two PAD Districts are not included.

The Form EIA-814, "Monthly Imports Report," is used to collect data on imports of crude oil and petroleum products (1) into the 50 States and the District of Columbia, (2) into Puerto Rico, the Virgin Islands, and other U.S. possessions (Guam, Midway Islands, Wake Island, American Samoa, and Northern Mariana Islands), and (3) from Puerto Rico, the Virgin Islands, and other U.S. possessions into the 50 States and the District of Columbia. Imports into Foreign Trade Zones located in the 50 States and the District of Columbia are considered imports into the 50 States and the District of Columbia.

The type of commodity, port of entry, country of origin, quantity (thousand barrels), sulfur percent by weight, API gravity, and name and location of the processing or storage facility are reported. Sulfur percent by weight is requested for crude oil, crude oil burned as fuel, and residual fuel oil only. API gravity is requested for crude oil only. The name and location of the processing or storage facility is requested for crude oil, unfinished oils, other hydrocarbons/hydrogen/oxygenates and blending components only.

The Form EIA-816, "Monthly Natural Gas Liquids Report," is used to collect data on the operations of natural gas processing plants and fractionators. Beginning and end-of-month stocks, receipts, inputs, production, shipments, and plant fuel use and losses during the month are collected from operators of natural gas processing plants. End-of-month stocks are collected from fractionators.

The Form EIA-817, "Monthly Tanker and Barge Movement Report," is used to collect data on the movements of crude oil and petroleum products between PAD Districts. Data are reported by shipping and receiving PAD District and sub-PAD District. Shipments to and from the Panama Canal are also included if the shipment was delivered to the Canal.

The Form EIA-819M, "Monthly Oxygenate Telephone Report," is used to collect data on production and stocks

of oxygenates. Data on end-of-month stocks are reported on a custody basis regardless of ownership. Data are reported on a PAD District basis.

Collection Methods

Except for the EIA-819M, survey forms for the MPSRS can be submitted by mail, facsimile, or electronic transmission. Completed forms are required to be postmarked by the 20th calendar day following the end of the report month. Data collection for the 819M begins on the seventh working day of each month. Data are solicited by telephone or transmitted to the EIA by facsimile. Receipt of the reports are monitored using an automated respondent mailing list. Telephone follow-up calls are made to nonrespondents prior to the publication deadline.

Response Rate

The response rate is generally 98 to 100 percent. Chronic nonrespondents and late filing respondents are contacted in writing and reminded of their requirement to report. Companies that file late or fail to file are subject to criminal fines, civil penalties, and other sanctions as provided by Section 13(i) of the Federal Energy Administration (FEA) Act.

Data Imputation

Imputation is performed for companies that fail to file Forms EIA-810 through 813, 816, and 819M. For such companies, previous monthly values are used for current values.

On the EIA-819M, data are aggregated for each geographic region. Estimation factors, which are derived from the previous year's data, are then applied to each cell to generate published estimates.

Data for nonrespondents on the Forms EIA-814 and 817 are not imputed because these data series, by respondent, are highly variable.

Confidentiality

The Office of Legal Counsel of the Department of Justice concluded on March 20, 1991, that the Federal Energy Administration Act requires the EIA 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 Forms EIA-810 through 813, 816, 817, and 819M are kept confidential and not disclosed to the public to the extent that they satisfy the criteria for exemption under the Freedom of Information Act (FOIA), 5 U.S.C. 552, the Department of Energy (DOE) regulations, 10 C.F.R. 1004.11, implementing the FOIA, and the Trade Secrets Act, 18 U.S.C. 1905. The information contained on Form EIA-814 are not considered confidential and historically has not been treated as such.

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. Company specific data are also provided to other DOE offices for the purpose of examining operations in the context of emergency response planning and actual emergencies.

The data collected on Forms EIA-810 through 814, 816, and 817 appear in EIA publications such as *Petroleum Supply Monthly* (PSM), *Monthly Energy Review*, *Petroleum Supply Annual* (PSA), and the *Annual Energy Review.*

Data on the breakdown between liquefied refinery gases and olefins, and lubricants is suppressed on *PSM* Table 29, "Refinery Net Production of Finished Petroleum Products by PAD and Refining Districts" and the corresponding *PSA* table to avoid disclosure of company identifiable data.

Statistics representing data aggregated from less than three companies or aggregated data representing 60 percent or more of a single company's data are suppressed on the PSM and corresponding PSA tables listed below. In addition, complementary suppression is performed to avoid any residual disclosure.

- Table 28, "Refinery Input of Crude Oil and Petroleum Products by PAD and Refining Districts," (inputs of oxygenates)
- Table 30, "Refinery Stocks of Crude Oil and Petroleum Products by PAD and Refining Districts," (stocks of oxygenates)
- Table 51, "Stocks of Crude Oil and Petroleum Products by PAD District," (stocks of oxygenates)
- Table 52, "Refinery, Bulk Terminal, and Natural Gas Plant Stocks of Selected Petroleum Products," (all products)
- Table D2, "Monthly Fuel Ethanol Production and Stocks by PAD Districts," and
- Table D3, "Monthly MTBE Production and Stocks by PAD Districts."

With the exception of the tables listed above, the tables in the *PSM* (and corresponding PSA tables) are not subject to statistical nondisclosure procedures. Thus, there may be some table cells which are based on data from only one or two respondents, or which are dominated by data from one or two large respondents. In these cases, it may be possible for a knowledgeable user of the data to make inferences about the data reported by a specific respondent.

Note 3. Technical Notes for Detailed Statistics Tables

The detailed statistics tables in the *Petroleum Supply Monthly* (PSM) provide complete supply and demand information for the current year. The tables are organized to locate National and Petroleum Administration for Defense (PAD) District summary data at the front followed by tables on crude oil and petroleum product production, import/export data, stocks information, and lastly, data on crude oil and petroleum product movements. To assist in the interpretation of these tables, the following technical notes are provided. Column and row headings are defined in the Glossary.

Supply

Field Production - Field production is the sum of crude oil production, natural gas plant liquids production, other liquids production, and finished petroleum products production.

Crude oil production is an estimate based on data received from State conservation agencies and the Mineral Management Service of the U.S. Department of the Interior. Refer to Explanatory Note 4 for further details.

Field production of natural gas plant liquids is reported on Form EIA-816 and published on a net basis (i.e., production minus inputs) in this column.

Other liquids field production is calculated by forcing the product supplied to be zero; thereby backing into field production.

Field production of finished petroleum products is calculated by (1) adding the amount of fuel ethanol that has been blended into finished motor gasoline, and (2) plus (+) or minus (-) the field production of motor gasoline blending components. Refer to Explanatory Note 8 for a further discussion of this calculation.

Negative field production of motor gasoline blending components represents an understatement for finished motor gasoline.

Negative field production of other finished motor gasoline represents an overstatement of other finished motor gasoline and an understatement of oxygenated motor gasoline.

Refinery Production - Published production of these products equal refinery production minus refinery input. Refinery production of other hydrocarbons, hydrogen and oxygenates, unfinished oils, and motor and aviation gasoline blending components appear on a net basis under refinery input. Negative refinery 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.

Unaccounted for Crude Oil - This column is a balancing item for crude oil. This data element represents the difference between crude oil supply and disposition. Crude oil supply is the sum of field production and imports. Crude oil disposition is the sum of stock change, losses, refinery inputs, exports, and products supplied. A positive result indicates that refiners and exporters reported use of more crude oil than was reported to have been available to them. (This occurs, for example, when imports are undercounted due to late reporting or other problems). A negative result indicates that more crude oil was reported to have been supplied to refiners and exporters than they reported to have used.

Disposition

Stock Change - This column is calculated as the difference between the Ending Stocks column of this table and the Ending Stocks column of this table in the prior month's publication. A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks.

Crude Losses - The volume of crude oil reported by petroleum refineries as being lost in their operations. These losses are due to spills, contamination, fires, etc., as opposed to refining processing losses or gains.

Refinery Inputs - Refinery inputs of crude oil and intermediate materials (unfinished oils, gasoline blending components, other hydrocarbons and oxygenates, lique-

fied petroleum gases, and pentanes plus) that are processed at refineries to produce finished petroleum products.

Crude oil inputs represents total crude oil (domestic and foreign) input to atmospheric crude oil distillation units and other refinery processing units (i.e., catalytic cracking units, cokers).

Inputs of natural gas liquids are natural gas liquids received from natural gas plants for blending and processing. Published inputs of natural gas liquids are reported on a gross basis.

Inputs of unfinished oils, motor and aviation gasoline blending components, and other hydrocarbons and oxygenates are published on a net basis (i.e., refinery input minus refinery production).

Inputs of finished petroleum products are published on a net basis (i.e., refinery production minus refinery inputs) and displayed under the refinery production column.

Exports - Exports include crude oil shipments from the 50 States to Puerto Rico, and the Virgin Islands.

Products Supplied - Products supplied is equal to field production, plus refinery production, plus imports, plus unaccounted for crude oil, (plus net receipts on a PAD District basis), minus stock change, minus crude losses, minus refinery inputs, minus exports.

Products supplied indicates those quantities of petroleum products supplied for domestic consumption. Occasionally, the result for a product is negative because total disposition of the product exceeds total supply. Negative product supplied may occur for a number of reasons: (1) product reclassification has not been reported; (2) data were misreported or reported late; (3) in the case of calculations on a PAD District basis, the figure for net receipts was inaccurate because the coverage of interdistrict movements was incomplete; and (4) products such as gasoline blending components and unfinished oils have entered the primary supply channels with their production not having been reported, e.g., streams returned to refineries from petrochemical plants.

Product supplied for crude oil is the sum of crude oil burned on leases and by pipelines as fuel. Prior to January 1983, crude oil burned on leases and by pipelines as fuel were reported as either distillate or residual fuel oil and were included in product supplied for these products.

Yields

The refinery yield of finished motor gasoline is calculated by subtracting the inputs of pentanes plus, liquefied petroleum gases, other hydrocarbons/oxygenates and motor gasoline blending components from the production of finished motor gasoline before dividing by the sum of crude oil input and unfinished oils input (net).

The refinery yield of finished aviation gasoline is calculated by subtracting the inputs of aviation gasoline blending components from the production of finished aviation gasoline before dividing by the sum of crude oil input and unfinished oils input (net).

Refinery yields for all products (except finished motor gasoline and finished aviation gasoline) are calculated by dividing the production for each product by the sum of crude oil input and unfinished oils input (net) reported in the U.S. total.

Stocks

Primary stocks of petroleum products do not include either secondary stocks held by dealers and jobbers or tertiary stocks held by consumers.

Movements

Movements of crude oil by pipeline between PAD Districts include trunk pipeline companies (interstate, intrastate, and intracompany pipelines). Intermediate movements for crude oil pipeline systems operating in more than two PAD Districts are not included.

Movements of petroleum products by pipeline between PAD Districts include trunk pipeline companies (interstate, intrastate and intracompany pipelines). Intermediate movements for product pipeline systems operating in more than two PAD Districts are included. For example, a shipment originating in PAD District 3, passing through PAD District 2 to PAD District 1, is reported as a movement from PAD District 3 to PAD District 2 and also from PAD District 2 to PAD District 1.

Waterborne movements of crude oil and petroleum products between PAD Districts include all shipments of crude oil or petroleum products for which the transporter has custody at the time of shipment. Custody is defined as physical possession of crude oil or petroleum products on a company-owned tanker and barge.

Note 4. Domestic Crude Oil Production

The Energy Information Administration (EIA) collects monthly crude oil production data on an ongoing basis. Data on crude oil production for States are reported to the EIA by State government agencies. Data on crude oil production for Federal offshore areas are reported to the EIA by the Minerals Management Service of the U.S. Department of the Interior and the California Department of Conservation.

Currently, all except four crude oil producing States (Michigan, New York, Ohio, and Pennsylvania) report production on a monthly basis. These four States report crude oil production on an annual basis. Estimates of monthly crude oil production for these four States are made by the EIA using data reported on Form EIA-182,

"Domestic Crude Oil First Purchase Report." After the end of each calendar year, the monthly crude oil production estimates are updated using annual reports from various State agencies, the Minerals Management Service, and the California Department of Conservation. The final estimate is published in the *Petroleum Supply Annual* (PSA).

Table 26 of this publication provides estimates of crude oil production in the latest month for which most State production data are available. There is a time lag of approximately 4 months between the end of the production month and the time when most monthly State crude oil production data become available.

In order to present more timely crude oil production estimates, the EIA prepares a weekly crude oil production estimate, which is used in the *Weekly Petroleum Status Report* (WPSR). At the end of the production month, these weekly estimates are aggregated into an original estimate of monthly crude oil production. Approximately 45 days later, this original estimate is replaced by State-level interim estimates. The State-level interim estimates are based on: (a) data reported by the States (e.g., production data for Alaska are typically reported to the EIA before the interim estimate is made); (b) first purchase data reported on Form EIA-182, "Domestic Crude Oil First Purchase Report;" (c) exponential or hyperbolic curve fitted projections based on recent State data; or (d) constant level projections based on the average production rate during a recent time period.

Table B1 is intended to provide further insight into the EIA's estimates of monthly U.S. crude oil production. It shows: (a) how the aggregate of reported State data evolves over a period of 18 months; (b) the number of producing States that have not reported production for a given month within that period; and (c) various EIA estimates of monthly crude oil production within that period:

- The original estimate is a monthly aggregate of the weekly crude oil production estimates published in the *WPSR*. This original monthly estimate is used in the *Petroleum Supply Monthly* (PSM) Tables S1 and S2 until replaced by the interim estimate.

- The interim estimate is used in the *PSM* Tables 1 through 25, and in Tables S1 and S2 until replaced by the final estimate.

- The initial estimate based upon first purchase data collected on the Form EIA-182 is used as an estimation tool in generating the interim estimate. The initial volume represents the best estimate available 40 days after the end of the production month and includes imputation for nonresponse and possible reporting errors. The revised volume is the best estimate available about 70 days after the production month and includes imputation as needed. A final revision is published concurrent with publication of Form EIA-182 price data in the Petroleum Marketing Annual.

- The final estimate is published in the *PSA*.

Note 5. Export Data

Each month the Energy Information Administration (EIA) receives magnetic tapes of aggregated export statistics from the U.S. Bureau of the Census (EM-522 and EM-594).

Census export statistics used in the *Petroleum Supply Monthly* (PSM) reflect both government and nongovernment exports of domestic and foreign merchandise from the United States (the 50 States and the District of Columbia) to foreign countries and U.S. possessions, without regard to whether or not the exportation involves a commercial transaction. The following types of transactions are excluded from the statistics:

(1) Merchandise shipped in transit through the United States from one foreign country to another, when documented as such with U.S. Customs.

(2) Bunker fuels and other supplies and equipment for use on departing vessels, planes, or other carriers engaged in foreign trade.

Source of Export Information

The official U.S. export statistics are compiled by the U.S. Bureau of the Census. Exporters are required to file export documents with U.S. Customs officials (Customs Form 7525).

Country and Area of Destination

The country of destination is defined as the country of ultimate destination or the country where the goods are to be consumed, further processed, or manufactured, as known to the shipper at the time of exportation. If the shipper does not know the country of ultimate destination, the shipment is credited to the last country to which the shipper knows that the merchandise will be shipped in the same form as it was when exported.

Note 6. Quality Control and Data Revision

Quality Control

The Energy Information Administration (EIA) monitors the supply and disposition of crude oil, petroleum products, and natural gas liquids in the United States. Through a tracking system, the EIA provides insight into the activities of primary operators and distributors in the petroleum industry. The tracking system, known as the Petroleum Supply Reporting System (PSRS), consists of production,

Table B1. U.S. Crude Oil[a] Production Estimates and Reported States[b] Data by Month
(Thousand Barrels per Day)

Date of Data Availability	Month of Production																	
	4-97	5-97	6-97	7-97	8-97	9-97	10-97	11-97	12-97	1-98	2-98	3-98	4-98	5-98	6-98	7-98	8-98	9-98
	Reported State Data																	
6-14-97	1344	0																
7-14-97	1759	1415	0															
8-14-97	4586	1780	1318	0														
9-14-97	4696	4572	1716	1347	0													
10-14-97	5670	4646	4420	1642	1359	0												
11-14-97	5697	5668	4644	2811	1653	1382	0											
12-14-97	5782	5789	5731	4577	4216	1721	1669	0										
1-14-98	5785	5793	5764	5498	4513	4471	1708	1440	0									
2-14-98	5788	5798	5786	5626	5542	4498	4249	1733	1340	0								
3-14-98	6008	5994	5786	5627	5544	4614	4582	4489	1812	1289	0							
4-14-98	6011	6020	5826	5763	5715	5826	5656	4597	4453	1743	1246	0						
5-14-98	6061	6094	6064	6016	5973	6082	5901	5890	4757	4470	1702	1235	0					
6-14-98	6409	6450	6404	6016	5976	6111	6071	6127	5927	4662	4254	1638	1213	0				
7-14-98	6409	6450	6404	6365	6323	6481	6071	6082	5993	5793	4527	4242	1644	1222	0			
8-14-98	6409	6450	6404	6365	6324	6482	6447	6464	6387	5886	4532	4439	4002	1593	1184	0		
9-14-98	6409	6450	6404	6365	6324	6488	6459	6476	6413	5956	5775	5633	5488	4910	1529	1159	0	
10-14-98	6409	6450	6404	6365	6325	6489	6460	6478	6414	5958	5777	5660	5491	5181	4028	1512	1136	0
	Producing States Without Reported Monthly Production																	
10-14-98	1	1	1	1	1	1	1	1	1	6	6	8	10	11	15	24	30	33

	Month of Production																	
	4-97	5-97	6-97	7-97	8-97	9-97	10-97	11-97	12-97	1-98	2-98	3-98	4-98	5-98	6-98	7-98	8-98	9-98
	Production Estimates																	
Estimate																		
Original[e].....	6437	6429	6380	6344	6292	6381	6393	6404	6457	6389	6407	6406	6412	6375	6333	6349	6331	6299
Interim[f].....	6483	6401	6341	6316	6282	6388	6435	6450	6475	6438	6538	6466	6484	6384	6290	6322	6276	
Form EIA-182																		
Initial	5955	5937	5862	5798	5716	5868	5887	5848	5823	5765	5894	5763	5858	5690	5550	5516	5418	
Revised....	5957	5892	5862	5795	5707	5784	5834	5841	5765	5880	5910	5770	5852	5716	5550	5519		
Final[g]	6441	6474	6442	6409	6347	6486	6467	6459	6531									

[a] Includes lease condensate.
[b] Includes Federal offshore areas, Gulf of Mexico (PADD III) and Pacific (PADD V), as two separate reporting entities.
[c] Includes EIA prorated monthly production in 1996 (annual average of 53 thousand barrels per day) for three States (Michigan, New York, and Ohio) for which only annual State data are available. Includes EIA prorated monthly production in 1997 (annual average of 52 thousand barrels per day) for three States (Michigan, New York, and Ohio) for which only annual State data are available.
[d] Michigan, New York, and Ohio are counted as having monthly reported data in 1996 after their annual reports were received. These data are first reported as of 5-16-97. Michigan, New York, and Ohio are counted as having monthly reported data in 1997 after their annual reports were received.
[e] Original estimates are weighted averages based on the weekly estimates published in the *Weekly Petroleum Status Report*.
[f] Interim estimates were made 44 days after the end of the production month.
[g] Published in the *Petroleum Supply Annual* 1995, DOE/EIA 0340(95)/2.

inputs, imports, inventories, movements, and other petroleum-related data collected on weekly, monthly, and annual surveys.

Survey forms are periodically reviewed for completeness, meaningfulness, and clarity. Modifications are made, when needed, to maintain efficient measure of the intended data items and to track product movement accurately throughout the industry. Through this process, the EIA can maintain consistency among forms, minimize respondent burden, and eliminate ambiguity.

Sampling and Nonsampling Errors

There are two types of errors usually associated with data produced from a survey: nonsampling errors and sampling errors. Because the estimates for the monthly surveys 810 through 813, 816, and 817 are based on a complete census of the frame, there is no sampling error in the data presented. The data, however, are subject to nonsampling errors. Nonsampling errors, sometimes referred to as biases, are those which can arise from a number of sources: (1) the inability to obtain data from all companies in the frame or sample (nonresponse and the method used to account for nonresponses, (2) definitional difficulties and/or improperly worded questions which lead to different interpretations. (3) mistakes in recording or coding the data obtained from respondents, and (4) other errors of collection, response, coverage, and estimation.

Response rates on the monthly surveys are very high. In general, response rates average above 95 percent for the weekly survey and above 98 percent for monthly surveys. Whenever survey responses are not received in time to be included in published statistics, the data are imputed. Although imputing for missing data may not eliminate the total error associated with nonresponse, it can serve to reduce the error. The data reported in the previous month are used as imputed values for missing data for all surveys except the Forms EIA-814, "Monthly Imports Report," and EIA-817, "Monthly Tanker and Barge Movement Report." There is no imputation procedure for these surveys because these data series, by respondent, are highly variable.

Response error is the major factor affecting the accuracy of PSRS data. Response, or reporting error, is the difference between the true value and the value reported on a survey form. Response error can occur for any number of reasons. For example, figures may be entered incorrectly when written on forms by the respondent, or errors may result from the misunderstanding of survey form instructions or definitions. Response error can also occur from the use of preliminary data when final data are not available. This can result in differences between published preliminary and final data. To help detect and minimize probable reporting errors, automated editing procedures are used to check current data for consistency with past data, as well as for internal consistency (e.g., totals equal to the sums of the parts), and to flag those data elements that fail edit criteria.

Errors can also be introduced during data processing. For example, while creating computer data files, key errors can occur in transcribing or coding the data; or information can be entered into the wrong cell. Using well designed edit criteria which examine orders of magnitude, cell position, and historical reporting patterns, many of these errors can be identified and corrected.

Monthly data are compared to weekly data on a regular basis. Discrepancies betweenly weekly and monthly data are documented and respondents are called when discrepancies are either large (usually over 300 thousand barrels) or consistent (e.g., weekly data are always lower than monthly data). In addition, a comparison of the data collected on the PSRS with other similar data series from sources outside of the Petroleum Division is performed each year. The results of this data comparison are published once a year in the *Petroleum Supply Monthly* (PSM) feature article, "Comparison of Independent Statistics on Petroleum Supply."

Sampling errors are those errors that occur when survey estimates are based on a sample rather than being derived from a complete census of the frame. The 819M data, which are based on sample estimates, serve as leading indicators of the PSRS monthly data for oxygenates. To assess the accuracy of the 819M statistics, data are compared with the monthly aggregate data for the EIA-810, 811, and 812 surveys. Although monthly data are still subject to error, they have been thoroughly reviewed and edited, and are considered to be the most accurate data available.

Data Revision

Resubmissions are any changes to the originally submitted data that were either requested by the EIA or initiated by the respondent. Resubmissions are compared with the original submission and processed at the time of receipt. For Forms EIA-810 through 813, 816, and 817 the Resubmission Tracking System (RTS) is run after resubmissions have been processed for the month. The RTS enables the user to study major products and data series to see how company resubmissions impact published data on a month by month basis. During the processing year, a summary of the effect of these resubmissions to major series is provided in Appendix C.

For the EIA-819M 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.

Late Response

Respondents who fail to respond within the prescribed time limit (25th day following the end of the report month)

become nonrespondents for that particular report period and are contacted by phone to obtain the current month's data. Respondents who are chronically late (i.e., 3 consecutive months) are notified by EIA either by letter or telephone.

Nonresponse

Follow-up action is taken when a company fails to respond adequately to data requests from the EIA. Preliminary attempts to gather delinquent reports are made by phone. Noncompliance form letters are sent to those companies that have not submitted reports and have not responded to data requests by phone.

Note 7. Frames Maintenance

The Petroleum Division (PD) maintains complete lists of respondents to its monthly surveys. Each survey has a list of companies and facilities required to submit petroleum activity data. This list is known as the survey frame. Frame maintenance procedures are used to monitor the status of petroleum companies and facilities currently contained in each survey frame as well as to identify new members to be added to the frame. As a result, all known petroleum supply organizations falling within the definition of "Who Must Submit" participate in the survey.

The activities for frames maintenance are conducted on a monthly and annual basis. Monthly frames maintenance procedures focus on examining several frequently published industry periodicals that report changes in status (births, deaths, sales, and acquisitions) of petroleum facilities producing, transporting, importing, and/or storing crude oil and petroleum products. These sources are augmented by articles in newspapers, letters from respondents indicating changes in status, and information received from survey systems operated by other offices. Survey managers review these sources regularly to monitor changes in company operations and to develop lists of potential respondents. These activities assure coverage of the reporting universe and maintain accurate facility information on addresses and ownership.

Annual frames maintenance focuses on re-evaluating the "must submit" companies filing the Form EIA-814 and reviewing the sample frame for the Form EIA-819M, "Monthly Oxygenate Telephone Report."

To supplement monthly and annual frames maintenance activities and to provide more thorough coverage, the PD periodically conducts a comprehensive frames investigation. These investigations result in the reassessment and recompilation of the complete frame for each survey. The effort also includes the evaluation of the impact of potential frame changes on the historical time series data published from these respondents. The results of this frame study are usually implemented in January to provide a full year under the same frame.

Note 8. Practical Limitations of Data Collection Efforts

Crude Oil Lease Stock Adjustment

End-of-month crude oil stocks held on leases are reported on the EIA-813, "Monthly Crude Oil Report." However, only those companies that store 1,000 barrels or more of crude oil are required to submit a report. Previous frames analysis has shown that crude oil stocks held on leases reported to the EIA are consistently lower than the lease stocks reported to individual states.

Up until 1983, monthly state government data on lease stocks were substituted for EIA data wherever possible in order to rectify the understatement of lease crude oil stocks. State data were available from three states — Texas, New Mexico, and Montana. To calculate the "lease adjustment," a comparison between EIA reported data and the state government data was made and the difference added to the EIA data for the respective states.

In 1983, the EIA modified the Form EIA-813 to eliminate state data on crude oil stocks and began collecting crude oil stock data by Petroleum Administration for Defense (PAD) District. With this change, the "lease adjustment" could no longer be calculated on a state basis and was changed to a PAD District level.

Trans Alaskan Pipeline System Adjustment

Beginning with the January 1989 data, adjustments are made to refinery inputs and product supplied of natural gas liquids (NGLs) and refinery inputs of crude oil to account for refiner misreporting. Substantial volumes of NGLs are produced at natural gas processing plants in Alaska and injected into the crude oil moving in the Trans Alaska Pipeline System (TAPS). Refiners receiving any crude oil commingled with NGLs are instructed to report the NGL portion of that stream separately from the crude oil portion. This has not been done for Alaskan crude oil because refiners are unable to identify these volumes for accounting purposes. As a result, the NGL production in Alaska has been credited directly toward product supplied and also toward product supplied from refinery production when the refiner processes the crude oil-NGL mixture. In addition, the reporting of the commingled stream as crude oil by the refiner has overstated crude oil inputs and resulted in an increase in unaccounted for crude oil equal to the volume of NGL in the crude oil.

To offset this reporting error, an adjustment is made to refinery input in all PAD Districts receiving Alaskan crude oil. The adjustment reduces the crude oil inputs and increases the NGL inputs by an equal amount. Each PAD District adjustment is a portion of the known Alaskan-NGL production that is proportional to the PAD District's share of Alaskan crude oil received at all refineries in the United States. The greatest impact occurs in PAD District V for butane and pentanes plus.

The reporting problem which began in 1987 grew as injections on NGLs into the TAPS increased. Data for 1988 was revised in the *Petroleum Supply Annual* to account for the adjustment.

Finished Motor Gasoline Product Supplied Adjustment

Beginning with the reporting of January 1993 data, adjustments were made to the product supplied series for finished motor gasoline. It was recognized that motor gasoline statistics published by the EIA through 1992 were underreported because the reporting system was not collecting all fuel ethanol and motor gasoline blending components being blended downstream from the refinery. The EIA was able to quantify these volumes and make corrective adjustments for 1992 in 1993 (refer to Table B2).

Fuel Ethanol Adjustment

Prior to 1993, an estimated 60 to 70 thousand barrels per day of fuel ethanol were added to motor gasoline to produce gasohol but were not included in the EIA finished motor gasoline production data. In 1992, the EIA attempted to collect these data from downstream fuel ethanol motor gasoline blenders but found that this effort was impractical and the results were inaccurate.

Beginning in January 1993, an estimate for the missing fuel ethanol blended into motor gasoline was calculated. This estimate was calculated as production (from the EIA-819M, "Monthly Oxygenate Telephone Report"), plus imports (from the EIA-814, "Monthly Imports Report"), minus inputs at refineries (from the EIA-810, "Monthly Refinery Report"), plus or minus stock change (from the EIA-819M survey). This estimate for the amount of fuel ethanol blended into motor gasoline was added to Table 1 for Natural Gas Liquids Field Production (line 14) and in the Field Production column for finished motor gasoline in Tables 2 through 25 published in the *PSM*.

An estimate for the total amount of gasohol produced with the ethanol is given as 10 times the estimated fuel ethanol blended (this assumes a 10 percent ethanol blend). This amount is added to the column labeled field production of "oxygenated gasoline" and subtracted from the field production of "other" finished gasoline. The PAD District level detail was obtained by allocating the national level estimates according to the percent of gasohol sales from the U.S. Department of Transportation, Federal Highway Administration, *Monthly Motor Fuel Reported by States*, 1994.

Motor Gasoline Blending Component Adjustment

Prior to 1993, the EIA published a "product supplied" for motor gasoline blending components. Since these components are to be blended into finished motor gasoline, there is no actual demand for this intermediate product. The EIA corrected this series by including the quantity of "product supplied" for motor gasoline blending components with "other" finished motor gasoline. This change was accomplished in Tables 2 through 25 by adding product supplied for motor gasoline blending components to the column labeled field production of "other" motor gasoline, and subtracting it from the field production column for "motor gasoline blending components."

Fuel Ethanol Stock Adjustment

Total end-of-month stocks of fuel ethanol are underreported in the PSRS because of the inability to collect data from downstream fuel ethanol motor gasoline blenders. Total stocks of fuel ethanol are assumed to be those reported by ethanol producers on the Form EIA-819M, "Monthly Oxygenate Telephone Report." The difference between the stocks reported on the EIA-819M and the stocks reported in the PSRS (from refiners, bulk terminal and pipeline operators) is added to the stocks shown for bulk terminals. If the stocks for the PSRS are higher than those reported on the EIA-819M, no adjustment is made.

Note 9. 1994 Changes in the Petroleum Supply Monthly

Effective with January 1994 data, several enhancements were made to the tables in the *Petroleum Supply Monthly* to reflect changes in the petroleum industry and to provide more meaningful petroleum statistics. These changes primarily affect data reported for imports, exports, and product supplied.

- On December 31, 1992, Ecuador withdrew as a member of the Organization of Petroleum Exporting Countries (OPEC). As of January 1994, imports of petroleum from Ecuador now appear under imports from Non-OPEC sources. No revision was made to 1993 data. Countries have been realphabetized accordingly. This change is evident in Tables S3 and 35 through 44, 49 and 50.

- Exports data are now published for oxygenates and the sub-categories of finished motor gasoline (reformulated, oxygenated, and other) and distillate fuel oil (0.05% sulfur and under, and greater than 0.05% sulfur).

- Product supplied is now calculated for reformulated, oxygenated, and other finished motor gasoline as well as the sulfur categories of distillate fuel oil (0.05% sulfur and under, and greater than 0.05% sulfur).

Table B2. Finished Motor Gasoline Product Supplied Adjustment, 1994 - Present (Thousand Barrels per Day)

Item/Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
1994													
Fuel Ethanol Adj.....	86	73	76	71	69	63	65	73	59	90	82	82	74
Motor Gas Blending	33	-7	27	58	51	82	98	98	81	-16	56	113	57
Product Supplied.....	6,980	7,275	7,395	7,564	7,644	7,922	7,884	7,975	7,615	7,548	7,464	7,924	7,601
1995													
Fuel Ethanol Adj.....	66	66	79	74	58	81	49	36	57	72	91	58	65
Motor Gas Blending	8	37	56	86	131	113	46	110	35	89	28	29	64
Product Supplied	7,163	7,481	7,788	7,651	7,894	8,220	7,888	8,187	7,786	7,781	7,866	7,742	7,789
1996													
Fuel Ethanol Adj.....	58	53	49	37	27	14	9	20	23	36	44	38	34
Motor Gas Blending	39	23	-16	14	5	66	2	-18	2	40	53	31	20
Product Supplied.....	7,254	7,552	7,729	7,869	7,998	8,089	8,135	8,216	7,641	8,038	7,875	7,775	7,849
1997													
Fuel Ethanol Adj.....	39	50	51	46	48	38	59	37	47	69	50	61	50
Motor Gas Blending	-20	61	-27	87	73	113	89	95	115	107	165	80	78
Product Supplied.....	7,301	7,668	7,796	8,064	8,139	8,288	8,496	8,233	8,023	8,141	7,965	8,065	8,017
1998													
Fuel Ethanol Adj.....	60	50	54	50	37	44	43	53					
Motor Gas Blending	123	76	128	105	89	237	143	80					
Product Supplied.....	7,590	7,755	7,956	8,137	8,070	8,437	8,659	8,500					

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

Source: • Fuel Ethanol Adjustment — 1994 -1997, Energy Information Administration (EIA), *Petroleum Supply Annual* (PSA), Volumes I and II (Table3, Motor gasoline field production minus motor gasoline blending component field production); 1998 —, EIA, *Petroleum Supply Monthly* (PSM), (Table 4). • Motor Gasoline Blending Component Adjustment — 1994 - 1997, EIA, *PSA*, Volumes I and II (Table 3; Motor gasoline blending component field adjustment) 1997 —, EIA, *PSM* (Table 4).

Table C1. Impact of Resubmissions on Major Series, 1998
(Thousand Barrels per Day, Except Where Noted)

Product	January		February		March		April		May		June		Year to Date
	PSM Value	Differ-ence	PSM Value	Differ-ence	PSM Value	Differ-ence	PSM Value	Differ-ence	PSM Value	Differ-ence	PSM Value	Differ-ence	Average Difference
Inputs	**15,363**	**13**	**14,977**	**-31**	**15,582**	**49**	**16,359**	**16**	**16,447**	**-34**	**16,688**	**26**	**7**
Crude Oil	14,313	35	14,034	-14	14,590	47	14,961	-2	15,104	-9	15,368	1	10
Pentanes Plus	156	-19	151	-18	149	0	158	3	153	0	160	1	-5
LPGs	356	-11	320	-12	241	-7	203	-3	200	2	202	0	-5
Ethane/Ethylene	0	0	0	0	0	0	0	0	0	0	0	0	0
Propane/Propylene	0	0	0	0	0	0	0	0	0	0	0	0	0
Normal Butane/Butylene	247	-9	197	-9	121	-7	79	-5	74	(s)	73	0	-5
Isobutane/Isobutylene	109	-3	123	-3	120	1	124	1	126	2	130	0	(s)
Oth Hydrocbns/Oxygenates	339	(s)	331	(s)	332	-1	373	-1	378	-1	367	1	(s)
Unfinished Oils	291	3	197	-22	307	2	483	20	469	1	450	36	7
Motor Gas. Blend. Comp	-89	4	-50	35	-34	8	185	(s)	146	-26	143	-13	1
Aviation Gas. Blend. Comp	-1	0	-6	0	-3	0	-4	0	-4	0	-2	0	0
Production	**18,387**	**-39**	**18,050**	**-57**	**18,559**	**48**	**19,371**	**10**	**19,403**	**38**	**19,728**	**22**	**5**
Pentanes Plus	319	-18	322	-16	303	(s)	314	1	321	3	321	1	-5
LPGs	2,017	-15	2,105	-7	2,266	-1	2,397	5	2,318	18	2,228	3	1
Ethane/Ethylene	655	2	675	3	710	(s)	710	(s)	675	6	622	2	2
Propane/Propylene	1,062	-4	1,066	-2	1,089	3	1,091	3	1,068	9	1,050	3	2
Normal Butane/Butylene	108	-10	168	-6	280	-3	371	2	384	4	336	(s)	-2
Isobutane/Isobutylene	191	-3	195	-2	188	(s)	225	(s)	192	-1	220	-1	-1
Oth Hydrocbns/Oxygenates	320	-10	300	4	242	6	263	-7	286	26	398	3	4
Motor Gas Blend. Comp.	-123	21	-76	-5	-128	7	-105	-44	-89	-52	-237	-34	-18
Finished Motor Gasoline	7,749	-24	7,485	2	7,591	8	8,029	47	8,057	35	8,372	40	18
Reformulated	2,359	0	2,311	-6	2,314	0	2,526	-1	2,600	-17	2,630	-32	-9
Oxygenated	710	-2	582	-9	613	13	567	1	436	3	504	1	1
Other	4,680	-22	4,592	16	4,664	-5	4,936	47	5,020	50	5,237	70	26
Finished Aviation Gasoline	13	-1	13	(s)	22	-3	26	-3	21	(s)	22	0	-1
Jet Fuel	1,504	2	1,447	-8	1,504	3	1,509	-1	1,472	-11	1,555	(s)	-3
Naphtha-Type Jet	1	0	(s)	0	1	0	(s)	(s)	1	0	(s)	0	(s)
Kerosene-Type Jet	1,503	2	1,447	-8	1,503	3	1,508	-1	1,471	-11	1,555	(s)	-3
Kerosene	102	4	77	2	72	-1	45	0	70	4	50	(s)	2
Distillate Fuel Oil	3,321	1	3,297	-14	3,385	13	3,447	-2	3,521	6	3,526	-3	(s)
Residual Fuel Oil	766	(s)	673	2	789	2	852	(s)	773	(s)	749	-4	(s)
Naphtha Pet. Feedstock	239	1	236	1	233	3	227	3	226	0	235	1	2
Other Oils Pet. Feedstock	212	(s)	214	(s)	225	(s)	233	0	210	-1	238	4	1
Special Naphthas	55	2	63	1	70	(s)	61	1	73	-1	77	0	(s)
Lubricants	168	2	162	1	180	1	185	0	191	(s)	192	(s)	1
Waxes	23	(s)	26	(s)	23	2	22	3	26	2	24	0	1
Petroleum Coke	675	-1	677	-6	710	5	728	4	703	3	695	6	2
Asphalt and Road Oil	357	-4	376	-9	393	(s)	439	1	493	6	538	(s)	-1
Still Gas	617	(s)	603	-4	630	3	647	3	678	(s)	695	5	1
Miscellaneous Products	53	0	48	(s)	49	(s)	54	(s)	54	(s)	52	0	(s)
Imports	**9,893**	**135**	**9,577**	**316**	**9,694**	**185**	**10,398**	**541**	**10,903**	**73**	**10,702**	**12**	**208**
Crude Oil	8,185	162	7,770	263	7,989	130	8,523	429	8,957	35	8,725	-4	167
Pentanes Plus	38	0	19	0	21	0	22	0	39	0	21	0	0
LPGs	202	(s)	277	(s)	192	0	234	(s)	219	0	249	0	(s)
Ethane/Ethylene	18	0	18	0	26	0	14	0	14	0	14	0	0
Propane/Propylene	139	(s)	204	(s)	132	0	183	(s)	136	0	179	0	(s)
Normal Butane/Butylene	28	0	31	0	18	0	21	0	41	0	37	0	0
Isobutane/Isobutylene	17	0	24	0	15	0	16	0	27	0	20	0	0
Oth Hydrocbns/Oxygenates	51	0	37	2	86	1	101	0	82	0	31	(s)	1
Unfinished Oils	289	-17	261	(s)	286	13	259	13	309	0	298	0	2
Motor Gas.Blend.Comp	124	3	150	20	105	15	213	39	248	21	316	15	19
Aviation Gas. Blend. Comp	0	0	0	0	0	0	0	0	0	0	0	0	0
Finished Motor Gasoline	265	-17	303	3	280	1	253	32	328	4	317	-8	3
Reformulated	155	5	196	3	161	1	114	28	166	28	138	9	13
Oxygenated	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	110	-21	108	0	119	0	140	4	163	-24	179	-17	-10
Finished Aviation Gasoline	(s)	0	0	0	(s)	0	(s)	0	(s)	0	(s)	0	0
Jet Fuel	67	0	99	0	96	0	60	0	104	0	66	0	0
Naphtha-Type Jet	0	0	0	0	0	0	0	0	0	0	0	0	0
Kerosene-Type Jet	67	0	99	0	96	0	60	0	104	0	66	0	0
Kerosene	3	0	2	0	1	0	(s)	0	(s)	0	(s)	0	0
Distillate Fuel Oil	187	7	183	18	220	17	189	19	178	0	193	8	11
Residual Fuel Oil	223	-4	185	8	180	9	221	8	142	12	211	1	6
Naphtha Pet. Feedstock	39	0	96	2	61	-2	58	0	73	0	36	0	(s)
Other Oils Pet. Feedstock	188	0	145	0	147	0	227	0	155	0	192	0	0
Special Naphthas	7	0	6	0	4	0	8	0	15	0	3	0	0
Lubricants	13	0	8	0	2	0	5	0	12	0	9	0	0
Waxes	1	(s)	2	(s)	2	(s)	1	(s)	1	(s)	1	(s)	(s)
Petroleum Coke	1	0	1	0	1	0	2	0	1	0	0	0	0
Asphalt and Road Oil	9	0	32	0	20	0	19	0	37	0	33	0	0
Miscellaneous Products	(s)	0	(s)	0	(s)	0	(s)	0	1	0	1	0	0

(s) = Less than 500 barrels per day.

Note: • Volumes indicate cumulative changes resulting from resubmissions received for that month as of the date of this publication. • Totals may not equal sum of components due to independent rounding.

Table C1. Impact of Resubmissions on Major Series, 1998
(Thousand Barrels per Day, Except Where Noted)

Product	January		February		March		April		May		June		Year to Date
	PSM Value	Differ-ence	PSM Value	Differ-ence	PSM Value	Differ-ence	PSM Value	Differ-ence	PSM Value	Differ-ence	PSM Value	Differ-ence	Average Difference
Stocks (Thousand Barrels)	**1,575,800**	**-6,391**	**1,572,461**	**-5,526**	**1,588,467**	**-2,192**	**1,613,989**	**-1,673**	**1,654,113**	**-3,182**	**1,653,682**	**-121**	**-3,181**
Crude Oil (excl. SPR)	320,862	-4,131	322,250	-4,453	336,430	-1,961	351,200	-14	352,664	-2,020	332,980	45	-2,089
Pentanes Plus	6,631	69	7,178	3	6,728	47	6,441	36	6,908	1	7,566	-14	24
LPGs	73,318	-367	68,657	18	69,140	166	84,047	405	106,473	533	122,602	510	211
Ethane/Ethylene	17,192	0	16,506	0	16,585	0	18,546	-7	20,869	0	21,421	0	-1
Propane/Propylene	34,671	-229	32,228	4	29,855	13	37,091	34	50,322	-149	60,192	4	-54
Normal Butane/Butylene	12,954	-129	11,656	-13	13,803	136	19,550	360	26,111	761	31,725	501	269
Isobutane/Isobutylene	8,501	-9	8,267	27	8,897	17	8,860	18	9,171	-79	9,264	5	-4
Oth Hydrocbns/Oxygenates	13,435	-274	13,603	-77	13,510	157	13,237	-17	12,931	14	13,623	52	-24
Unfinished Oils	93,194	-631	98,064	-189	101,875	-461	100,671	-1,125	98,772	-817	99,527	-753	-663
Motor Gas. Blend. Comp	45,747	532	48,589	-40	48,637	419	45,966	298	46,099	133	43,768	-47	216
Aviation Gas. Blend. Comp	149	0	150	0	110	0	119	0	182	0	182	0	0
Finished Motor Gasoline	175,287	-1,173	172,760	-141	166,394	91	168,323	-389	174,908	-419	177,680	-43	-346
Reformulated	44,414	-891	44,749	65	42,913	67	44,227	-458	47,829	-131	48,799	-170	-253
Oxygenated	1,127	3	827	3	865	0	650	1	755	3	1,290	-14	-1
Other	129,746	-285	127,184	-209	122,616	24	123,446	68	126,324	-291	127,591	141	-92
Finished Aviation Gasoline	1,774	7	1,504	-29	1,622	-134	1,738	-124	1,710	-35	1,493	0	-53
Jet Fuel	44,203	-85	42,250	116	42,992	87	41,456	-76	43,166	-115	44,416	-41	-19
Naphtha-Type Jet	34	0	32	0	49	-1	50	-1	53	0	47	0	(s)
Kerosene-Type Jet	44,169	-85	42,218	116	42,943	88	41,406	-75	43,113	-115	44,369	-41	-19
Kerosene	6,209	32	5,602	11	4,697	5	4,637	-6	4,907	-12	4,863	34	11
Distillate Fuel Oil	133,059	-52	127,929	-351	124,425	14	125,681	-467	136,799	-403	139,133	-88	-225
Residual Fuel Oil	39,650	88	38,113	51	40,990	-385	39,187	-77	38,615	-39	39,760	33	-55
Naphtha Pet. Feedstock	1,898	25	2,181	31	1,868	40	1,716	50	2,738	0	2,458	26	29
Other Oils Pet. Feedstock	1,865	6	2,251	9	1,589	-2	2,193	0	1,634	0	2,310	22	6
Special Naphthas	2,005	-12	2,093	-31	2,174	-65	1,938	7	2,022	-23	1,862	20	-17
Lubricants	12,801	23	12,169	37	11,928	34	11,079	-7	11,478	4	11,417	112	34
Waxes	989	-189	1,026	-211	906	-81	858	14	985	7	942	0	-77
Petroleum Coke	11,246	0	10,882	0	12,051	13	12,623	-93	11,977	58	11,198	130	18
Asphalt and Road Oil	26,501	-260	30,135	-280	35,210	-148	35,909	-92	34,068	25	30,799	-119	-146
Miscellaneous Products	1,547	1	1,649	0	1,765	-28	1,544	4	1,649	-74	1,674	0	-16
Product Supplied	**18,256**	**-31**	**18,322**	**-28**	**18,393**	**73**	**18,624**	**152**	**17,876**	**57**	**18,818**	**-20**	**34**
Crude Oil	0	0	0	0	0	0	0	0	0	0	0	0	0
Pentanes Plus	157	-1	158	4	188	-2	173	-2	171	4	147	1	1
LPGs	2,331	8	2,177	-8	2,161	1	1,892	(s)	1,582	12	1,709	4	3
Ethane/Ethylene	729	2	718	3	733	(s)	659	(s)	614	5	618	2	2
Propane/Propylene	1,475	3	1,329	-10	1,270	2	1,011	2	755	15	886	-2	2
Normal Butane/Butylene	40	3	25	-1	95	-1	104	(s)	130	-9	98	8	(s)
Isobutane/Isobutylene	88	(s)	104	0	62	(s)	118	-1	83	(s)	107	-4	-1
Unfinished Oils	-120	-25	-109	6	-144	20	-184	15	-99	-10	-178	-38	-6
Aviation Gas. Blend. Comp	1	0	5	0	4	0	3	0	2	0	2	0	0
Finished Motor Gasoline	7,590	5	7,755	-32	7,956	1	8,137	96	8,070	40	8,437	19	22
Reformulated	2,453	46	2,495	-36	2,535	1	2,595	45	2,650	(s)	2,735	-21	7
Oxygenated	707	-2	592	-9	612	13	574	1	431	3	480	2	1
Other	4,430	-39	4,667	14	4,810	-12	4,967	49	4,990	37	5,221	38	14
Finished Aviation Gasoline	9	(s)	22	1	18	(s)	22	-3	22	-3	29	-1	-1
Jet Fuel	1,525	9	1,590	-15	1,540	4	1,588	4	1,495	-10	1,555	-3	-2
Naphtha-Type Jet	(s)	(s)	(s)	0	-7	(s)	(s)	(s)	-1	(s)	(s)	0	(s)
Kerosene-Type Jet	1,524	9	1,590	-15	1,547	4	1,588	4	1,497	-10	1,555	-3	-2
Kerosene	138	3	101	2	102	(s)	45	(s)	61	4	51	-1	1
Distillate Fuel Oil	3,566	-8	3,585	14	3,589	18	3,408	33	3,219	4	3,492	-5	9
0.05% & under	2,082	-12	2,214	-8	2,255	-17	2,276	23	2,185	9	2,331	9	1
Greater than 0.05%	1,485	3	1,371	22	1,334	35	1,132	10	1,035	-6	1,161	-15	8
Residual Fuel Oil	884	-7	793	12	742	25	966	-2	707	11	770	-6	5
Naphtha Pet. Feedstock	275	(s)	322	3	303	1	291	3	266	2	280	(s)	1
Other Oils Pet. Feedstock	411	(s)	345	(s)	394	(s)	440	(s)	383	-1	407	4	1
Special Naphthas	53	-1	34	1	61	1	63	-1	77	(s)	58	-1	(s)
Lubricants	170	-9	169	(s)	165	1	192	1	167	0	176	-3	-2
Waxes	22	(s)	24	1	26	-2	22	(s)	21	2	23	(s)	(s)
Petroleum Coke	343	-2	429	-6	366	5	432	7	416	-2	458	4	1
Asphalt and Road Oil	218	-3	275	-8	245	-4	428	-1	585	2	654	5	-2
Still Gas	617	(s)	603	-4	630	3	647	3	678	(s)	695	5	1
Miscellaneous Products	65	(s)	44	(s)	45	1	59	-1	51	3	52	-2	(s)

(s) = Less than 500 barrels per day.
Note: • Volumes indicate cumulative changes resulting from resubmissions received for that month as of the date of this publication. • Totals may not equal sum of components due to independent rounding.

EIA-819M
Monthly Oxygenate Telephone Report

The EIA-819M, "Monthly Oxygenate Telephone Report," provides production data and preliminary stock data for fuel ethanol and methyl tertiary butyl ether (MTBE) in the United States and major U.S. geographic regions. Data are collected from a sample of respondents reporting on the Monthly Petroleum Supply Reporting System surveys and from the universe of oxygenate producers. Refer to Appendix B, Explanatory Note 2 for further detail. Final data on stocks of fuel ethanol and MTBE are presented in the Detailed Statistics section. The quantity of oxygenates blended into motor gasoline previously published in this appendix is now presented in Appendix B, Table B2.

Table D1. U.S. Summary, September 1998

Products	September 1998		August 1998		Year-to-Date	
	Thousand Barrels	Thousand Barrels per Day	Thousand Barrels	Thousand Barrels per Day	Thousand Barrels	Thousand Barrels per Day
Fuel Ethanol						
Production	2,926	98	2,709	87	23,830	87
Stocks	3,169	—	2,991	—	—	—
MTBE						
Production	6,306	210	6,724	217	55,296	203
Stocks	8,117	—	7,695	—	—	—

Source: Energy Information Administration (EIA) Form EIA-819M, "Monthly Oxygenate Telephone Report."

Table D2. Monthly Fuel Ethanol Production and Stocks by Petroleum Administration for Defense Districts (PADD)

(Thousand Barrels per Day, Except Where Noted

District/Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Total U.S.												
Production												
1997	80	82	86	77	89	75	77	80	80	87	98	98
1998	96	85	86	85	81	83	85	87	98			
Stocks (thous. bbls.)												
1997	2,169	2,139	2,291	2,302	2,681	2,966	2,620	3,036	3,109	2,605	3,005	2,758
1998	2,633	2,519	2,360	2,423	2,732	2,829	2,951	2,991	3,169			
East Coast (PADD I)												
Production												
1997	W	W	W	W	W	W	W	W	W	W	W	W
1998	W	W	W	W	W	W	W	W	W			
Stocks (thous. bbls.)												
1997	19	15	24	37	92	328	55	392	119	109	255	76
1998	110	99	86	32	32	139	230	298	101			
Midwest (PADD II)												
Production												
1997	79	81	85	76	88	74	76	79	79	87	97	97
1998	95	84	85	84	81	82	84	87	97			
Stocks (thous. bbls.)												
1997	1,397	1,613	1,839	1,758	1,968	1,891	1,778	1,942	2,002	1,533	1,627	1,661
1998	1,633	1,661	1,588	1,607	1,697	1,478	1,344	1,377	1,578			
Gulf Coast (PADD III)												
Production												
1997	W	W	W	W	W	W	W	W	W	W	W	W
1998	W	W	W	W	W	W	W	W	W			
Stocks (thous. bbls.)												
1997	265	138	151	212	349	385	429	350	462	266	531	332
1998	394	225	271	382	565	612	717	608	610			
Rocky Mountain (PADD IV)												
Production												
1997	W	W	W	W	W	W	W	W	W	W	W	W
1998	W	W	W	W	W	W	W	W	W			
Stocks (thous. bbls.)												
1997	110	95	83	66	72	75	73	87	156	129	129	123
1998	108	91	94	97	103	118	130	163	179			
West Coast (PADD V)												
Production												
1997	W	W	W	W	W	W	W	W	W	W	W	W
1998	W	W	W	W	W	W	W	W	W			
Stocks (thous. bbls.)												
1997	378	278	194	228	201	287	285	265	370	569	464	567
1998	387	443	321	306	334	482	530	545	701			

W=Withheld to avoid disclosure of individual company data.
Note: • Geographic coverage is the 50 States and the District of Columbia. • Totals may not equal sum of components due to independent rounding.
Source: Energy Information Administration (EIA) Form EIA-819M, "Monthly Oxygenate Telephone Report.

Table D3. Monthly Methyl Tertiary Butyl Ether (MTBE) Production and Stocks by Petroleum Administration for Defense Districts (PADD)

(Thousand Barrels per Day, Except Where Noted)

District/Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Total U.S.												
Production												
1997	161	192	182	186	194	209	201	217	200	206	211	205
1998	188	176	201	209	195	204	R 220	217	210			
Stocks (thous. bbls.)												
1997	9,659	9,607	9,039	8,934	8,621	7,151	7,380	8,506	7,800	7,029	7,528	7,623
1998	8,690	8,725	8,976	9,025	8,400	8,762	R 8,544	7,695	8,117			
East Coast (PADD I)												
Production												
1997	W	W	W	W	W	W	W	W	W	W	W	W
1998	W	W	W	W	W	W	W	W	W			
Stocks (thous. bbls.)												
1997	1,895	1,839	2,154	1,463	1,235	1,094	907	1,406	1,536	1,551	1,325	1,666
1998	1,676	1,514	1,794	1,464	2,058	1,657	1,734	1,341	1,275			
Midwest (PADD II)												
Production												
1997	W	W	W	W	W	W	W	W	W	W	W	W
1998	W	W	W	W	W	W	W	W	W			
Stocks (thous. bbls.)												
1997	W	W	W	W	W	W	W	W	W	W	W	W
1998	W	W	W	W	W	W	W	W	W			
Gulf Coast (PADD III)												
Production												
1997	138	171	163	165	170	183	175	191	172	183	181	180
1998	164	153	179	184	173	176	R 191	188	181			
Stocks (thous. bbls.)												
1997	3,545	4,223	3,887	3,413	3,008	2,559	3,027	4,083	3,147	3,097	3,100	3,168
1998	3,712	4,084	3,871	4,132	3,150	3,854	R 3,174	2,950	3,295			
Rocky Mountain (PADD IV)												
Production												
1997	W	W	W	W	W	W	W	W	W	W	W	W
1998	W	W	W	W	W	W	W	W	W			
Stocks (thous. bbls.)												
1997	W	W	W	W	W	W	W	W	W	W	W	W
1998	W	W	W	W	W	W	W	W	W			
West Coast (PADD V)												
Production												
1997	W	W	W	W	W	W	W	W	W	W	W	W
1998	W	W	W	W	W	W	W	W	W			
Stocks (thous. bbls.)												
1997	3,868	3,277	2,673	3,808	4,084	3,278	3,174	2,824	2,851	2,142	2,840	2,606
1998	3,009	2,869	3,090	3,101	2,891	2,938	3,231	3,104	3,216			

R=Revised data.
W=Withheld to avoid disclosure of individual company data.
Note: • Geographic coverage is the 50 States and the District of Columbia. • Totals may not equal sum of components due to independent rounding.

Table D4. Monthly Methyl Tertiary Butyl Ether (MTBE) Production by Merchant and Captive Plants
(Thousand Barrels per Day, Except Where Noted)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Total U.S.												
1992	98	94	89	79	90	90	101	91	104	118	128	125
1993	115	114	112	138	132	126	155	142	157	146	148	144
1994	123	140	129	140	139	115	154	166	160	164	150	144
1995	149	144	121	168	169	182	181	171	163	167	174	171
1996	173	172	182	183	194	202	197	179	186	187	183	184
1997	161	192	182	186	194	209	201	217	200	206	211	205
1998	188	176	201	209	195	204	R 220	217	210			
Merchant Plants												
1992	65	62	58	48	55	53	63	53	61	76	81	77
1993	63	66	67	87	75	70	89	79	87	76	81	75
1994	63	76	66	73	72	50	73	89	90	81	84	69
1995	76	68	61	86	85	91	90	88	79	90	97	92
1996	94	92	93	95	109	123	111	96	101	98	94	87
1997	72	106	99	92	93	104	106	113	99	108	109	108
1998	97	77	104	107	94	106	R 114	108	100			
Captive Plants												
1992	33	32	31	31	35	37	38	38	43	42	47	48
1993	52	48	45	50	57	55	67	62	70	70	67	69
1994	60	64	63	67	67	65	81	78	70	83	66	75
1995	73	76	60	83	84	91	91	83	84	76	78	79
1996	79	80	89	89	84	79	85	83	85	89	89	97
1997	89	86	83	94	102	105	95	104	101	98	102	97
1998	91	99	97	102	101	99	106	109	111			

R=Revised data.
Note: • Geographic coverage is the 50 States and the District of Columbia. • Totals may not equal sum of components due to independent rounding.

Definitions of Petroleum Products and Other Terms

Alcohol. The family name of a group of organic chemical compounds composed of carbon, hydrogen, and oxygen. The series of molecules vary in chain length and are composed of a hydrocarbon plus a hydroxyl group; CH_3-(CH_2)n-OH (e.g., methanol, ethanol, and tertiary butyl alcohol).

Alkylate. The product of an alkylation reaction. It usually refers to the high octane product from alkylation units. This alkylate is used in blending high octane gasoline.

Alkylation. A refining process for chemically combining isobutane with olefin hydrocarbons (e.g., propylene, butylene) through the control of temperature and pressure in the presence of an acid catalyst, usually sulfuric acid or hydrofluoric acid. The product, alkylate, an isoparaffin, has high octane value and is blended with motor and aviation gasoline to improve the antiknock value of the fuel.

API Gravity. An arbitrary scale expressing the gravity or density of liquid petroleum products. The measuring scale is calibrated in terms of degrees API; it may be calculated in terms of the following formula:

$$\text{Degrees API} = \frac{141.5}{\text{sp.gr.}60°\,F/60°\,F} - 131.5$$

The higher the API gravity, the lighter the compound. Light crudes generally exceed 38 degrees API and heavy crudes are commonly labeled as all crudes with an API gravity of 22 degrees or below. Intermediate crudes fall in the range of 22 degrees to 38 degrees API gravity.

Aromatics. Hydrocarbons characterized by unsaturated ring structures of carbon atoms. Commercial petroleum aromatics are benzene, toluene, and xylene (BTX).

Asphalt. A dark-brown-to-black cement-like material containing bitumens as the predominant constituent obtained by petroleum processing. The definition includes crude asphalt as well as the following finished products: cements, fluxes, the asphalt content of emulsions (exclusive of water), and petroleum distillates blended with asphalt to make cutback asphalts. The conversion factor for asphalt is 5.5 barrels per short ton.

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

Atmospheric Crude Oil Distillation. The refining process of separating crude oil components at atmospheric pressure by heating to temperatures of about 600° to 750° F (depending on the nature of the crude oil and desired products) and subsequent condensing of the fractions by cooling.

Aviation Gasoline (Finished). All special grades of gasoline for use in aviation reciprocating engines, as given in ASTM Specification D910 and Military Specification MIL-G-5572. Excludes blending components which will be used in blending or compounding into finished aviation gasoline.

Aviation Gasoline Blending Components. Naphthas which will be used for blending or compounding into finished aviation gasoline (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, and xylene). Excludes oxygenates (alcohols, ethers), butane, and pentanes plus. Oxygenates are reported as other hydrocarbons, hydrogen, and oxygenates.

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. Factors for converting petroleum coke, asphalt, still gas and wax to barrels are given in the definitions of these products.

Barrels Per Calendar Day. The maximum number of barrels of input that can be processed during a 24-hour period after making allowances for the following limitations:

the capability of downstream facilities to absorb the output of crude oil processing facilities of a given refinery. No reduction is made when a planned distribution of intermediate streams through other than downstream facilities is part of a refinery's normal operation;

the types and grades of inputs to be processed;

the types and grades of products expected to be manufactured;

the environmental constraints associated with refinery operations;

the reduction of capacity for scheduled downtime such as routine inspection, mechanical problems, maintenance, repairs, and turnaround; and

the reduction of capacity for unscheduled downtime such as mechanical problems, repairs, and slowdowns.

Barrels Per Stream Day. The amount a unit can process running at full capacity under optimal crude oil and product slate conditions.

Benzene (C_6H_6). An aromatic hydrocarbon present in small proportion in some crude oils and made commercially from petroleum by the catalytic reforming of naphthenes in petroleum naphtha. Also made from coal in the manufacture of coke. Used as a solvent, in manufacturing detergents, synthetic fibers, and petrochemicals and as a component of high-octane gasoline.

Blending Components. See Motor or Aviation Gasoline Blending Components.

Blending Plant. A facility which has no refining capability but is either capable of producing finished motor gasoline through mechanical blending or blends oxygenates with motor gasoline.

Bonded Petroleum Imports. Petroleum imported and entered into Customs bonded storage. These imports are not included in the import statistics until they are: (1) withdrawn from storage free of duty for use as fuel for vessels and aircraft engaged in international trade; or (2) withdrawn from storage with duty paid for domestic use.

BTX. The acronym for the commercial petroleum aromatics benzene, toluene, and xylene. See individual categories for definitions.

Bulk Station. A facility used primarily for the storage and/or marketing of petroleum products which has a total bulk storage capacity of less than 50,000 barrels and receives its petroleum products by tank car or truck.

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.

Butane (C_4H_{10}). A normally gaseous straight-chain or branch-chain hydrocarbon extracted from natural gas or refinery gas streams. It includes isobutane and normal butane and is designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial butane.

Isobutane (C_4H_{10}). A normally gaseous branch-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of 10.9° F. It is extracted from natural gas or refinery gas streams.

Normal Butane (C_4H_{10}). A normally gaseous straight-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of 31.1° F. It is extracted from natural gas or refinery gas streams.

Butylene (C_4H_8). An olefinic hydrocarbon recovered from refinery processes.

Captive Refinery Oxygenate Plants. Oxygenate production facilities located within or adjacent to a refinery complex.

Catalytic Cracking. The refining process of breaking down the larger, heavier, and more complex hydrocarbon molecules into simpler and lighter molecules. Catalytic cracking is accomplished by the use of a catalytic agent and is an effective process for increasing the yield of gasoline from crude oil. Catalytic cracking processes fresh feeds and recycled feeds.

Fresh Feeds. Crude oil or petroleum distillates which are being fed to processing units for the first time.

Recycled Feeds. Feeds that are continuously fed back for additional processing.

Catalytic Hydrocracking. A refining process that uses hydrogen and catalysts with relatively low temperatures and high pressures for converting middle boiling or residual material to high-octane gasoline, reformer charge stock, jet fuel, and/or high grade fuel oil. The process uses one or more catalysts, depending upon product output, and can handle high sulfur feedstocks without prior desulfurization.

Catalytic Hydrotreating. A refining process for treating petroleum fractions from atmospheric or vacuum distillation units (e.g., naphthas, middle distillates, reformer feeds, residual fuel oil, and heavy gas oil) and other petroleum (e.g., cat cracked naphtha, coker naphtha, gas oil, etc.) in the presence of catalysts and substantial quantities of hydrogen. Hydrotreating includes desulfurization, removal of substances (e.g., nitrogen compounds) that deactivate catalysts, conversion of olefins to paraffins to reduce gum formation in gasoline, and other processes to upgrade the quality of the fractions.

Catalytic Reforming. A refining process using controlled heat and pressure with catalysts to rearrange certain hydrocarbon molecules, thereby converting paraffinic and naphthenic type hydrocarbons (e.g., low-octane gasoline boiling range fractions) into petrochemical feedstocks and higher octane stocks suitable for blending into finished gasoline. Catalytic reforming is reported in two categories. They are:

Low Pressure. A processing unit operating at less than 225 pounds per square inch gauge (PSIG) measured at the outlet separator.

High Pressure. A processing unit operating at either equal to or greater than 225 pounds per square inch gauge (PSIG) measured at the outlet separator.

Charge Capacity. The input (feed) capacity of the refinery processing facilities.

Coal. A black or brownish-black solid combustible substance formed by the partial decomposition of vegetable matter without access to air. The rank of coal, which includes anthracite, bituminous coal, subbituminous coal, and lignite, is based on fixed carbon, volatile matter, and heating value. Coal rank indicates the progressive alteration, or coalification, from lignite to anthracite. Lignite contains approximately 9 to 17 million BTU per ton. The heat contents of subbituminous and bituminous coal range from 16 to 24 million BTU per ton, and from 19 to 30 million BTU per ton, respectively. Anthracite contains approximately 22 to 28 million BTU per ton.

Commercial Kerosene-Type Jet Fuel. See **Kerosene-Type Jet Fuel.**

Crude Oil (Including Lease Condensate). A mixture of hydrocarbons that exists in liquid phase in underground reservoirs and remains liquid at atmospheric pressure after passing through surface-separating facilities. Included are lease condensate and liquid hydrocarbons produced from tar sands, gilsonite, and oil shale. Drip gases are also included, but topped crude oil (residual oil) and other unfinished oils are excluded. Liquids produced at natural gas processing plants and mixed with crude oil are likewise excluded where identifiable. Crude oil is considered as either domestic or foreign, according to the following:

Domestic. Crude oil produced in the United States or from its "outer continental shelf" as defined in 43 USC 1331.

Foreign. Crude oil produced outside the United States. Imported Athabasca hydrocarbons (tar sands from Canada) are included.

Crude Oil, Refinery Receipts. Receipts of domestic and foreign crude oil at a refinery. Includes all crude oil in transit except crude oil in transit by pipeline. Foreign crude oil is reported as a receipt only after entry through customs. Crude oil of foreign origin held in bonded storage is excluded.

Crude Oil Losses. Represents the volume of crude oil reported by petroleum refineries as being lost in their operations. These losses are due to spills, contamination, fires, etc. as opposed to refinery processing losses.

Crude Oil Production. The volume of crude oil produced from oil reservoirs during given periods of time. The amount of such production for a given period is measured as volumes delivered from lease storage tanks (i.e., the point of custody transfer) to pipelines, trucks, or other media for transport to refineries or terminals with adjustments for (1) net differences between opening and closing lease inventories, and (2) basic sediment and water (BS&W).

Crude Oil Qualities. Refers to two properties of crude oil, the sulfur content and API gravity, which affect processing complexity and product characteristics.

Delayed Coking. A process by which heavier crude oil fractions can be thermally decomposed under conditions of elevated temperatures and pressure to produce a mixture of lighter oils and petroleum coke. The light oils can be processed further in other refinery units to meet product specifications. The coke can be used either as a fuel or in other applications such as the manufacturing of steel or aluminum.

Disposition. The components of petroleum disposition are stock change, crude oil losses, refinery inputs, exports, and products supplied for domestic consumption.

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,*** for use in on-highway diesel engines which could be described as meeting EPA regulations; and ***greater than 0.05% sulfur***, for use in all other distillate applications.

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.

Electricity (Purchased). Electricity purchased for refinery operations that is not produced within the refinery complex.

Ending Stocks. Primary stocks of crude oil and petroleum products held in storage as of 12 midnight on the last day of the month. 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.

ETBE (Ethyl tertiary butyl ether) $(CH_3)_3COC_2H_5$. An oxygenate blend stock formed by the catalytic etherification of isobutylene with ethanol.

Ethane (C_2H_6). A normally gaseous straight-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of -127.48° F. It is extracted from natural gas and refinery gas streams.

Ether. A generic term applied to a group of organic chemical compounds composed of carbon, hydrogen, and oxygen, characterized by an oxygen atom attached to two carbon atoms (e.g., methyl tertiary butyl ether).

Ethylene (C_2H_4). An olefinic hydrocarbon recovered from refinery processes or petrochemical processes.

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

Field Production. Represents crude oil production on leases, natural gas liquids production at natural gas processing plants, new supply of other hydrocarbons/oxygenates and motor gasoline blending components, and fuel ethanol blended into finished motor gasoline.

Flexicoking. A thermal cracking process which converts heavy hydrocarbons such as crude oil, tar sands bitumen, and distillation residues into light hydrocarbons. Feedstocks can be any pumpable hydrocarbons including those containing high concentrations of sulfur and metals.

Fluid Coking. A thermal cracking process utilizing the fluidized-solids technique to remove carbon (coke) for continuous conversion of heavy, low-grade oils into lighter products.

Fresh Feed Input. Represents input of material (crude oil, unfinished oils, natural gas liquids, other hydrocarbons and oxygenates or finished products) to processing units at a refinery that is being processed (input) into a particular unit for the first time.

Examples:

(1) Unfinished oils coming out of a crude oil distillation unit which are input into a catalytic cracking unit are considered fresh feed to the catalytic cracking unit.

(2) Unfinished oils coming out of a catalytic cracking unit being looped back into the same catalytic cracking unit to be reprocessed are not considered fresh feed.

Fuel Ethanol (C_2H_5OH). An anhydrous denatured aliphatic alcohol intended for gasoline blending as described in Oxygenates definition.

Fuels Solvent Deasphalting. A refining process for removing asphalt compounds from petroleum fractions, such as reduced crude oil. The recovered stream from this process is used to produce fuel products.

Gas Oil. A liquid petroleum distillate having a viscosity intermediate between that of kerosene and lubricating oil. It derives its name from having originally been used in the manufacture of illuminating gas. It is now used to produce distillate fuel oils and gasoline.

Gasohol. A blend of finished motor gasoline and alcohol (generally ethanol but sometimes methanol), limited to 10 percent by volume of alcohol.

Gasoline Blending Components. Naphthas which will be used for blending or compounding into finished aviation or motor gasoline (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, and xylene). Excludes oxygenates (alcohols, ethers), butane, and pentanes plus.

Gross Input to Atmospheric Crude Oil Distillation Units. Total input to atmospheric crude oil distillation units. Includes all crude oil, lease condensate, natural gas plant liquids, unfinished oils, liquefied refinery gases, slop oils, and other liquid hydrocarbons produced from tar sands, gilsonite, and oil shale.

Heavy Gas Oil. Petroleum distillates with an approximate boiling range from 651° to 1000° F.

Hydrogen. The lightest of all gases, occurring chiefly in combination with oxygen in water; exists also in acids, bases, alcohols, petroleum, and other hydrocarbons.

Idle Capacity. The component of operable capacity that is not in operation and not under active repair, but capable of being placed in operation within 30 days; and capacity not in operation but under active repair that can be completed within 90 days.

Imported Crude Oil Burned As Fuel. The amount of foreign crude oil burned as a fuel oil, usually as residual fuel oil, without being processed as such. Imported crude oil burned as fuel includes lease condensate and liquid hydrocarbons produced from tar sands, gilsonite, and oil shale.

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

Isobutane. See **Butane.**

Isobutylene (C_4H_8). An olefinic hydrocarbon recovered from refinery processes or petrochemical processes.

Isohexane (C_6H_{14}). A saturated branch-chain hydrocarbon. It is a colorless liquid that boils at a temperature of 156.2° F.

Isomerization. A refining process which alters the fundamental arrangement of atoms in the molecule without adding or removing anything from the original material. Used to convert normal butane into isobutane (C_4), an alkylation process feedstock, and normal pentane and hexane into isopentane (C_5) and isohexane (C_6), high-octane gasoline components.

Isopentane. See **Natural Gasoline and Isopentane.**

Kerosene. A petroleum distillate that has a maximum distillation temperature of 401° F at the 10-percent recovery point, a final boiling point of 572° F, and a minimum flash point of 100° F. Included are the two grades designated in ASTM D3699: No. 1-K and No. 2-K, and all grades of kerosene called range or stove oil. Kerosene is used in space heaters, cook stoves, and water heaters and is suitable for use as an illuminant when burned in wick lamps.

Kerosene-Type Jet Fuel. A quality kerosene product with a maximum distillation temperature of 400° F at the 10-percent recovery point and a final maximum boiling point of 572° F. The fuel is designated in ASTM Specification D1655 and Military Specifications MIL-T-5624R and MIL-T-83133D (Grades JP-5 and JP-8). A relatively low-freezing point distillate of the kerosene type used primarily for turbojet and turboprop aircraft engines.

> ***Commercial.*** Kerosene-type jet fuel intended for use in commercial aircraft.
>
> ***Military.*** Kerosene-type jet fuel intended for use in military aircraft.

Lease Condensate. A natural gas liquid recovered from gas well gas (associated and non-associated) in lease separators or natural gas field facilities. Lease condensate consists primarily of pentanes and heavier hydrocarbons.

Light Gas Oils. Liquid petroleum distillates heavier than naphtha, with an approximate boiling range from 401° F to 650° F.

Liquefied Petroleum Gases (LPG). Ethane, ethylene, propane, propylene, normal butane, butylene, isobutane, and isobutylene produced at refineries or natural gas processing plants, including plants that fractionate raw natural gas plant liquids.

Liquefied Refinery Gases (LRG). Liquefied petroleum gases fractionated from refinery or still gases. Through compression and/or refrigeration, they are retained in the liquid state. The reported categories are ethane/ethylene, propane/propylene, normal butane/butylene, and isobutane/isobutylene. Excludes still gas.

Lubricants. A substance used to reduce friction between bearing surfaces or as process materials either incorporated into other materials used as processing aids in the manufacturing of other products, or as carriers of other materials. Petroleum lubricants may be produced either from distillates or residues. Other substances may be added to impart or improve certain required properties. Do not include byproducts of lubricating oil refining such as aromatic extracts derived from solvent extraction or tars derived from deasphalting. "Lubricants" includes all grades of lubricating oils from spindle oil to cylinder oil and those used in greases. Reporting categories include:

> ***Paraffinic.*** Includes all grades of bright stock and neutrals with a Viscosity Index > 75.

Naphthenic. Includes all lubricating oil base stocks with a Viscosity Index < 75.

Note: The criterion for categorizing the lubricants is based solely on the Viscosity Index of the stocks and is independent of crude sources and type of processing used to produce the oils.

Exceptions: Lubricating oil base stocks that have been historically classified as naphthenic or paraffinic by a refiner may continue to be so categorized irrespective of the Viscosity Index criterion.

Example:

(1) Unextracted paraffinic oils that would not meet the Viscosity Index test.

Merchant Oxygenate Plants. Oxygenate production facilities that are not associated with a petroleum refinery. Production from these facilities is sold under contract or on the spot market to refiners or other gasoline blenders.

Methanol (CH_3OH). A light, volatile alcohol intended for gasoline blending as described in Oxygenate definition.

Middle Distillates. A general classification of refined petroleum products that includes distillate fuel oil and kerosene.

Military Kerosene-Type Jet Fuel. See **Kerosene-Type Jet Fuel.**

Miscellaneous Products. Includes all finished products not classified elsewhere (e.g., petrolatum, lube refining byproducts (aromatic extracts and tars), absorption oils, ram-jet fuel, petroleum rocket fuels, synthetic natural gas feedstocks, and specialty oils).

Motor Gasoline (Finished). A complex mixture of relatively volatile hydrocarbons, with or without small quantities of additives, that has been blended to form a fuel suitable for use in spark-ignition engines. Motor gasoline, as given in ASTM Specification D-4814 or Federal Specification VV-G-1690C, includes a range in distillation temperatures from 122 degrees to 158 degrees F at the 10-percent recovery point and from 365 degrees to 374 degrees F at the 90-percent recovery point. "Motor gasoline" includes reformulated gasoline, oxygenated gasoline, and other finished gasoline. Blendstock is excluded until blending has been completed.

Reformulated Gasoline. Gasoline formulated for use in motor vehicles, the composition and properties of which meet the requirements of the reformulated gasoline regulations promulgated by the U.S. Environmental Protection Agency under Section 211K of the Clean Air Act. Includes oxygenated fuels program reformulated gasoline (OPRG). Excludes reformulated gasoline blendstock for oxygenate blending (RBOB).

Oxygenated Gasoline. Gasoline formulated for use in motor vehicles that has an oxygen content of 1.8 percent or higher, by weight. Includes gasohol. Excludes reformulated gasoline, oxygenated fuels program reformulated gasoline (OPRG) and reformulated gasoline blendstock for oxygenate blending (RBOB).

OPRG. **"**Oxygenated Fuels Program Reformulated Gasoline" is reformulated gasoline which is intended for use in an oxygenated fuels program control period**.**

Other Finished or Conventional Gasoline. Motor gasoline not included in the oxygenated or reformulated gasoline categories. Excludes reformulated gasoline blendstock for oxygenate blending (RBOB).

Motor Gasoline Blending. Mechanical mixing of motor gasoline blending components and oxygenates to produce finished motor gasoline. Mechanical mixing of finished motor gasoline with motor gasoline blending components or oxygenates which results in increased volumes of finished motor gasoline, and/or changes in the classification of finished motor gasoline (e.g., other finished motor gasoline mixed with MTBE to produce oxygenated motor gasoline), is considered motor gasoline blending.

Motor Gasoline Blending Components. Naphthas which will be used for blending or compounding into finished motor gasoline (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, xylene) and includes reformulated gasoline blendstock for oxygenate blending (RBOB). Excludes oxygenates (alcohols, ethers), butane, and pentanes plus. Oxygenates are reported as individual components and included in the total for other hydrocarbons, hydrogens, and oxygenates.

MTBE (Methyl tertiary butyl ether) ($(CH_3)_3COCH_3$). An ether intended for gasoline blending as described in Oxygenate definition.

Naphtha. A generic term applied to a petroleum fraction with an approximate boiling range between 122° and 400° F.

Naphtha Less Than 401° F. See **Petrochemical Feedstocks.**

Naphtha-Type Jet Fuel. A fuel in the heavy naphtha boiling range. ASTM Specification D1655 specifies for this fuel maximum distillation temperatures of 290° F at the 20-percent recovery point and 470° F at the 90-percent

point, meeting Military Specification MIL-T-5624L (Grade JP-4). JP-4 is used for turbojet and turboprop aircraft engines, primarily by the military. Excludes ram-jet and petroleum rocket fuels.

Natural Gas. A mixture of hydrocarbons and small quantities of various nonhydrocarbons existing in the gaseous phase or in solution with crude oil in underground reservoirs.

Natural Gas Field Facility. A field facility designed to process natural gas produced from more than one lease for the purpose of recovering condensate from a stream of natural gas; however, some field facilities are designed to recover propane, normal butane, pentanes plus, etc., and to control the quality of natural gas to be marketed.

Natural Gas Plant Liquids. Natural gas liquids recovered from natural gas in gas processing plants, and in some situations, from natural gas field facilities. Natural gas liquids extracted by fractionators are also included. These liquids are defined according to the published specifications of the Gas Processors Association and the American Society for Testing and Materials and are classified as follows: ethane, propane, normal butane, isobutane, and pentanes plus.

Natural Gas Processing Plant. 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.

Natural Gasoline and Isopentane. A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas, that meets vapor pressure, end-point, and other specifications for natural gasoline set by the Gas Processors Association. Includes isopentane which is a saturated branch-chain hydrocarbon, (C_5H_{12}), obtained by fractionation of natural gasoline or isomerization of normal pentane.

Net Receipts. The difference between total movements into and total movements out of each PAD District by pipeline, tanker, and barge.

Normal Butane. See **Butane.**

OPEC. The acronym for the Organization of Petroleum Exporting Countries, that have organized for the purpose of negotiating with oil companies on matters of oil production, prices and future concession rights. Current members are Algeria, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, and Venezuela. The Neutral Zone between Kuwait and Saudi Arabia is considered part of OPEC. Prior to January 1, 1993, Ecuador was a member of OPEC. Prior to January 1995, Gabon was a member of OPEC.

OPRG. "Oxygenated Fuels Program Reformulated Gasoline" is reformulated gasoline which is intended for use in an oxygenated fuels program control area during an oxygenated fuels program control period.

Operable Capacity. The amount of capacity that, at the beginning of the period, is in operation; not in operation and not under active repair, but capable of being placed in operation within 30 days; or not in operation but under active repair that can be completed within 90 days. Operable capacity is the sum of the operating and idle capacity and is measured in barrels per calendar day or barrels per stream day.

Operating Capacity. The component of operable capacity that is in operation at the beginning of the period.

Operable Utilization Rate. Represents the utilization of the atmospheric crude oil distillation units. The rate is calculated by dividing the gross input to these units by the operable refining capacity of the units.

Operating Utilization Rate. Represents the utilization of the atmospheric crude oil distillation units. The rate is calculated by dividing the gross input to these units by the operating refining capacity of the units.

Other Finished. See **Motor Gasoline (Finished).**

Other Hydrocarbons. Materials received by a refinery and consumed as a raw material. Includes hydrogen, coal tar derivatives, gilsonite, and natural gas received by the refinery for reforming into hydrogen. Natural gas to be used as fuel is excluded.

Other Oils Equal To or Greater Than 401° F. See **Petrochemical Feedstocks.**

Other Oxygenates. Other aliphatic alcohols and aliphatic ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

Oxygenated Gasoline. See **Motor Gasoline (Finished).**

Oxygenates. Any substance which, when added to gasoline, increases the amount of oxygen in that gasoline blend. Through a series of waivers and interpretive rules, the Environmental Protection Agency (EPA) has determined the allowable limits for oxygenates in unleaded gasoline. The "Substantially Similar" Interpretive Rules (56 FR (February 11, 1991)) allows blends of aliphatic alcohols other than methanol and aliphatic ethers, provided the oxygen content does not exceed 2.7 percent by weight. The "Substantially Similar"

Interpretive Rules also provides for blends of methanol up to 0.3 percent by volume exclusive of other oxygenates, and butanol or alcohols of a higher molecular weight up to 2.75 percent by weight. Individual waivers pertaining to the use of oxygenates in unleaded gasoline have been issued by the EPA. They include:

Fuel Ethanol. Blends of up to 10 percent by volume anhydrous ethanol (200 proof) (commonly referred to as the "gasohol waiver").

Methanol. Blends of methanol and gasoline-grade tertiary butyl alcohol (GTBA) such that the total oxygen content does not exceed 3.5 percent by weight and the ratio of methanol to GTBA is less than or equal to 1. It is also specified that this blended fuel must meet ASTM volatility specifications (commonly referred to as the "ARCO" waiver).

Blends of up to 5.0 percent by volume methanol with a minimum of 2.5 percent by volume cosolvent alcohols having a carbon number of 4 or less (i.e., ethanol, propanol, butanol, and/or GTBA). The total oxygen must not exceed 3.7 percent by weight, and the blend must meet ASTM volatility specifications as well as phase separation and alcohol purity specifications (commonly referred to as the "DuPont" waiver).

MTBE (Methyl tertiary butyl ether). Blends up to 15.0 percent by volume MTBE which must meet the ASTM D4814 specifications. Blenders must take precautions that the blends are not used as base gasolines for other oxygenated blends (commonly referred to as the "Sun" waiver).

Pentanes Plus. A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas. Includes isopentane, natural gasoline, and plant condensate.

Persian Gulf. The countries that comprise the Persian Gulf are: Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and the United Arab Emirates.

Petrochemical Feedstocks. Chemical feedstocks derived from petroleum principally for the manufacture of chemicals, synthetic rubber, and a variety of plastics. The categories reported are "Naphtha Less Than 401° F" and "Other Oils Equal To or Greater Than 401° F."

Naphtha Less Than 401° F. A naphtha with a boiling range of less than 401° F that is intended for use as a petrochemical feedstock.

Other Oils Equal To or Greater Than 401° F. Oils with a boiling range equal to or greater than 401° F that are intended for use as a petrochemical feedstock.

Petroleum Administration for Defense (PAD) Districts. Geographic aggregations of the 50 States and the District of Columbia into five districts by the Petroleum Administration for Defense in 1950. These districts were originally defined during World War II for purposes of administering oil allocation.

Petroleum Coke. A residue, the final product of the condensation process in cracking. This product is reported as marketable coke or catalyst coke. The conversion factor is 5 barrels per short ton.

Marketable Coke. Those grades of coke produced in delayed or fluid cokers which may be recovered as relatively pure carbon. This "green" coke may be sold as is or further purified by calcining.

Catalyst Coke. In many catalytic operations (e.g., catalytic cracking) carbon is deposited on the catalyst, thus deactivating the catalyst. The catalyst is reactivated by burning off the carbon, which is used as a fuel in the refining process. This carbon or coke is not recoverable in a concentrated form.

Petroleum Products. Petroleum products are obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds. Petroleum products include unfinished oils, liquefied petroleum gases, pentanes plus, aviation gasoline, motor gasoline, naphtha-type jet fuel, kerosene-type jet fuel, kerosene, distillate fuel oil, residual fuel oil, petrochemical feedstocks, special naphthas, lubricants, waxes, petroleum coke, asphalt, road oil, still gas, and miscellaneous products.

Pipeline (Petroleum). 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.

Plant Condensate. One of the natural gas liquids, mostly pentanes and heavier hydrocarbons, recovered and separated as liquids at gas inlet separators or scrubbers in processing plants.

Processing Gain. The volumetric amount by which total output is greater than input for a given period of time. This difference is due to the processing of crude oil into products which, in total, have a lower specific gravity than the crude oil processed.

Processing Loss. The volumetric amount by which total refinery output is less than input for a given period of time. This difference is due to the processing of crude oil into products which, in total, have a higher specific gravity than the crude oil processed.

Product Supplied, Crude Oil. Crude oil burned on leases and by pipelines as fuel.

Production Capacity. The maximum amount of product that can be produced from processing facilities.

Products 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 (C_3H_8). A normally gaseous straight-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of -43.67° 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-5 propane.

Propylene (C_3H_6). An olefinic hydrocarbon recovered from refinery processes or petrochemical processes.

RBOB. "Reformulated Gasoline Blendstock for Oxygenate Blending" is a motor gasoline blending component which, when blended with a specified type and percentage of oxygenate, meets the definition of reformulated gasoline.

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

Refinery Input, Crude Oil. Total crude oil (domestic plus foreign) input to crude oil distillation units and other refinery processing units (cokers, etc.).

Refinery Input, Total. The raw materials and intermediate materials processed at refineries to produce finished petroleum products. They include crude oil, products of natural gas processing plants, unfinished oils, other hydrocarbons and oxygenates, motor gasoline and aviation gasoline blending components and finished petroleum products.

Refinery Production. Petroleum products produced at a refinery or blending plant. Published production of these products equals refinery production minus refinery 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. Refinery production of unfinished oils, and motor and aviation gasoline blending components appear on a net basis under refinery input.

Refinery Yield. Refinery yield (expressed as a percentage) represents the percent of finished product produced from input of crude oil and net input of unfinished oils. It is calculated by dividing the sum of crude oil and net unfinished input into the individual net production of finished products. Before calculating the yield for finished motor gasoline, the input of natural gas liquids, other hydrocarbons and oxygenates, and net input of motor gasoline blending components must be subtracted from the net production of finished motor gasoline. Before calculating the yield for finished aviation gasoline, input of aviation gasoline blending components must be subtracted from the net production of finished aviation gasoline.

Reformulated Gasoline. See **Motor Gasoline (Finished).**

Residual Fuel Oil. The heavier oils that remain after the distillate fuel oils and lighter hydrocarbons are distilled away in refinery operations and that conform to ASTM Specification D396. Included are No. 5, a residual fuel oil of medium viscosity; Navy Special, for use in steam-powered vessels in government service and in shore power plants; No. 6, which includes Bunker C fuel oil, and is used for commercial and industrial heating, electricity generation and to power ships.

Residuum. Residue from crude oil after distilling off all but the heaviest components, with a boiling range greater than 1000° F.

Road Oil. Any heavy petroleum oil, including residual asphaltic oil used as a dust pallative and surface treatment on roads and highways. It is generally produced in six grades from 0, the most liquid, to 5, the most viscous.

Shell Storage Capacity. The design capacity of a petroleum storage tank which is always greater than or equal to working storage capacity.

Special Naphthas. All finished products within the naphtha boiling range that are used as paint thinners, cleaners, or solvents. These products are refined to a specified flash point. Special naphthas include all commercial hexane and cleaning solvents conforming to ASTM Specification D1836 and D484, respectively. Naphthas to be blended or marketed as motor gasoline or aviation gasoline, or that are to be used as petrochemical and synthetic natural gas (SNG) feedstocks are excluded.

Steam (Purchased). Steam, purchased for use by a refinery, that was not generated from within the refinery complex.

Still Gas (Refinery Gas). Any form or mixture of gases produced in refineries by distillation, cracking, reforming, and other processes. The principal constituents are methane, ethane, ethylene, normal butane, butylene, propane, propylene, etc. Still gas is used as a refinery fuel and a petrochemical feedstock. The conversion factor is 6 million BTU's per fuel oil equivalent barrel.

Stock Change. The difference between stocks at the beginning of the month and stocks at the end of the month. A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks.

Strategic Petroleum Reserve (SPR). Petroleum stocks maintained by the Federal Government for use during periods of major supply interruption.

Sulfur. A yellowish nonmetallic element, sometimes known as "brimstone".

Supply. The components of petroleum supply are field production, refinery production, imports, and net receipts when calculated on a PAD District basis.

TAME (Tertiary amyl methyl ether) $(CH_3)_2(C_2H_5)COCH_3$. An oxygenate blend stock formed by the catalytic etherification of isoamylene with methanol.

Tank Farm. An installation used by gathering and trunk pipeline companies, crude oil producers, and terminal operators (except refineries) to store crude oil.

Tanker and Barge. Vessels that transport crude oil or petroleum products. Data are reported for movements between PAD Districts; from a PAD District to the Panama Canal; or from the Panama Canal to a PAD District.

TBA (Tertiary butyl alcohol) $(CH_3)_3COH$. An alcohol primarily used as a chemical feedstock, a solvent or feedstock for isobutylene production for MTBE; produced as a co-product of propylene oxide production or by direct hydration of isobutylene.

Thermal Cracking. A refining process in which heat and pressure are used to break down, rearrange, or combine hydrocarbon molecules. Thermal cracking includes gas oil, visbreaking, fluid coking, delayed coking, and other thermal cracking processes (e.g., flexicoking). See individual categories for definition.

Toluene ($C_6H_5CH_3$). Colorless liquid of the aromatic group of petroleum hydrocarbons, made by the catalytic reforming of petroleum naphthas containing methyl cyclohexane. A high-octane gasoline-blending agent, solvent, and chemical intermediate, base for TNT.

Unaccounted for Crude Oil. Represents the arithmetic difference between the calculated supply and the calculated disposition of crude oil. The calculated supply is the sum of crude oil production plus imports minus changes in crude oil stocks. The calculated disposition of crude oil is the sum of crude oil input to refineries, crude oil exports, crude oil burned as fuel, and crude oil losses.

Unfinished Oils. Includes all oils requiring further processing, except those requiring only mechanical blending. Includes naphthas and lighter oils, kerosene and light gas oils, heavy gas oils, and residuum. See individual categories for definition.

Unfractionated Streams. Mixtures of unsegregated natural gas liquid components excluding those in plant condensate. This product is extracted from natural gas.

United States. The United States is defined as the 50 States and the District of Columbia.

Vacuum Distillation. Distillation under reduced pressure (less the atmospheric) which lowers the boiling temperature of the liquid being distilled. This technique with its relatively low temperatures prevents cracking or decomposition of the charge stock.

Visbreaking. A thermal cracking process in which heavy atmospheric or vacuum-still bottoms are cracked at moderate temperatures to increase production of distillate products and reduce viscosity of the distillation residues.

Wax. A solid or semi-solid material derived from petroleum distillates or residues by such treatments as chilling, precipitating with a solvent, or de-oiling. It is light-colored, more-or-less translucent crystalline mass, slightly greasy to the touch, consisting of a mixture of solid hydrocarbons in which the paraffin series predominates. Includes all marketable wax whether crude scale or fully refined. The three grades included are microcrystalline, crystalline-fully refined, and crystalline-other. The conversion factor is 280 pounds per 42 U.S. gallons per barrel.

> ***Microcrystalline Wax.*** Wax extracted from certain petroleum residues having a finer and less apparent crystalline structure than paraffin wax and having the following physical characteristics: penetration at 77° F (D1321)-60 maximum; viscosity at 210° F in Saybolt Universal Seconds (SUS); (D88)-60 SUS (10.22 centistokes) minimum to 150 SUS (31.8 centistokes) maximum; oil content (D721)-5 percent minimum.

Crystalline-Fully Refined Wax. A light-colored paraffin wax having the following characteristics: viscosity at 210° F (D88)-59.9 SUS (10.18 centistokes) maximum; oil content (D721)-0.5 percent maximum; other +20 color, Saybolt minimum.

Crystalline-Other Wax. A paraffin wax having the following characteristics: viscosity at 210° F (D88)-59.9 SUS (10.18 centistokes) maximum; oil content (D721)-0.51 percent minimum to 15 percent maximum.

Working Storage Capacity. The difference in volume between the maximum safe fill capacity and the quantity below which pump suction is ineffective (bottoms).

Xylene ($C_6H_4(CH_3)_2$). Colorless liquid of the aromatic group of hydrocarbons made the catalytic reforming of certain naphthenic petroleum fractions. Used as high-octane motor and aviation gasoline blending agents, solvents, chemical intermediates. Isomers are metaxylene, orthoxylene, paraxylene.