# **Explanatory Notes**

# Survey Design And Estimation Methods

The data presented in this publication include data collected by the Energy Information Administration (EIA) on weekly and monthly surveys, and data released by Reuters Ltd. Weekly supply data are derived from the Weekly Petroleum Supply Reporting System (WPSRS) which comprises six surveys: the "Weekly Refinery and Fractionator Report" (EIA-800); the "Weekly Bulk Terminal Report" (EIA-801); the "Weekly Product Pipeline Report" (EIA-802); the "Weekly Crude Oil Stocks Report" (EIA-803); and the "Weekly Imports Report" (EIA-804); and the "Weekly Terminal Blenders Report" (EIA-805). The EIA weekly reporting system, as part of the Petroleum Supply Reporting System, was designed to collect data similar to those collected monthly. In the WPSRS, selected petroleum companies report weekly data to EIA on crude oil and petroleum product stocks, refinery inputs and production, motor gasoline blending operations, and crude oil and petroleum product imports. On the Forms EIA-800, EIA-801, EIA-802, EIA-803, and EIA-805 companies report data on a custody basis. On the Form EIA-804, the importer of record reports each shipment entering the United States. Current weekly data and the most recent monthly data are used to estimate the published weekly totals.

EIA price data contained in this report are derived from 2 weekly telephone surveys and 3 monthly surveys. The weekly surveys, EIA-878, "Motor Gasoline Price Survey," and EIA-888, "On-Highway Diesel Fuel Price Survey," provide timely information on national and regional retail prices of gasoline and on-highway diesel fuel. The monthly surveys collect volume weighted price data for crude oil and petroleum products, the EIA-14, "Refiners' Monthly Cost Report," EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report." In order to provide a comprehensive summary of current conditions in petroleum markets, spot and futures prices as reported by Reuters Ltd. are also included.

# Sample Frame

### WPSRS Forms: EIA-800 through EIA-805

The sample of companies that report weekly in the WPSRS was selected from the universe of companies that report monthly. All sampled companies report data only for facilities in the 50 States and the District of Columbia. The frame from which the EIA-800 sample is drawn includes all operating and idle petroleum refineries and fractionators in the 50 States and the District of Columbia. The EIA-801 sample frame includes all bulk terminal

facilities in the United States and its possessions that have total bulk storage capacity of 50,000 barrels or more, or that receive petroleum products by tanker, barge, or pipeline. The EIA-802 sample frame includes all petroleum product pipeline companies in the 50 States and the District of Columbia that transport refined petroleum products, including interstate, intrastate, and intracompany pipeline movements. Pipeline companies that transport only natural gas liquids are not included in the EIA-802 frame. Only those pipeline companies which transport products covered in the weekly survey are included. The EIA-803 sample frame consists of all companies which carry or store 1,000 barrels or more of crude oil. Included are gathering and trunk pipeline companies (including interstate, intrastate and intracompany pipelines), crude oil producers, terminal operators, storers of crude oil, and companies transporting Alaskan crude oil by water in the 50 States and the District of Columbia. The frame from which the EIA-804 sample is drawn includes importers of record of crude oil and petroleum products into the 50 States and the District of Columbia including imports of petroleum products from Puerto Rico, the Virgin Islands, and other U.S. possessions. The frame from which the EIA-805 sample is drawn includes all operating and idle motor gasoline blending plants in the 50 States and the District of Columbia.

From April 1990 through March 2004, weekly propane data were collected on Form EIA-807, "Propane Telephone Survey." The sample frame for the EIA-807 was selected from the universe of companies that reported on monthly surveys for a limited geographic region, that included Petroleum Administration for Defense Districts I, Sub PADDS, II, and III. Beginning with the first report period in April 2004, the collection of weekly propane data began using existing Weekly Petroleum Supply Reporting System (WPSR) surveys in place of the discontinued Form EIA-807. At this same time, data for propane exports, from the U.S. Bureau of the Census, were included, while the sample of companies was expanded slightly, allowing for the calculation of a propane supply/disposition balance on a weekly basis. However, except for national totals for each propane supply/disposition component, publication of regional propane data remains unchanged from those published in earlier WPSR reports.

# **Sampling Designs**

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

	Weekly Form	July 2008 Frame Size	Weekly Sample Size
Refiners (Refineries)	EIA-800	156	129
Bulk Terminals	EIA-801	241	88
Product Pipelines	EIA-802	74	44
Crude Oil Stock Holders	EIA-803	132	52
Importers	EIA-804	352	75
Terminal Blenders	EIA-805	541	279

The geographic areas were defined as (a) the 24 States in which No. 2 distillate was a significant heating source and 50 States and the District of Columbia for residual and motor gasoline, (b) the 25 States in which propane was a significant energy source, or as (c) the PAD Districts for districts where not all State estimates are provided. The type-of-sale classifications were retail and resale for motor gasoline and residual fuel oil, and residential and nonresidential retail and wholesale for distillate and propane. Four volume-of-sales strata (certainty, zero, low, and high) were defined with volume boundaries differing by State, sales type, and product.

The EIA-878 computer assisted telephone survey collects price data each Monday morning from a sample of approximately 800 gasoline outlets drawn from a frame of approximately 115,000 retail gasoline outlets. The gasoline outlet sample was selected using area sampling by first sampling counties in the U.S., and then, sampling the outlets from the gasoline outlet frame within those counties within each sampling cell.<sup>1</sup> The standard deviations of gasoline prices for each of the sampling cells based on the previous sample's data, and the number of stations in operation as reported in the Census Bureau's County Business Patterns (CBP) were used to determine the required number of outlets to be sampled. The outlets were then randomly selected from the outlet frame within the sampling cells. Data shown prior to May 26, 2003, before the development of the outlet frame, were collected from a previous sample. The previous sample had a two-phase design that used probability proportional to size sampling, based on companies' retail sales of gasoline reported on the EIA-782 monthly survey. Sampled companies were contacted to determine the locations of outlets owned by the company, and the locations were then sampled randomly within the sampled companies. Further details of this previous design are contained in a published paper that can be found at:

http://www.eia.doe.gov/pub/oil\_gas/petroleum/data\_publications /weekly\_on\_highway\_diesel\_prices/current/html/2cycasr.htm The EIA-878 weekly gasoline outlet prices are averaged using sample weights constructed based on the sampled outlet's number of pumps, a proxy for sales volume. These weights are applied each week to the reported outlet gasoline prices to obtain averages for the specific formulations, grades and geographic areas. Weights used in aggregating grades, formulations and geographic areas were derived using volume data from the EIA-782C, "Monthly Report of Prime Suppliers Sales of Petroleum Products Sold for Local Consumption", and demographic data from the Bureau of the Census and Department of Transportation on population, number of gasoline stations and number of vehicles. Data shown prior to May 26, 2003 were calculated using a simple average for estimating average prices for city and state gasoline prices, but required volume weighted prices for more aggregated published areas with respect to geography, formulation, and grade.

The EIA-888 telephone survey collects price data from a selected sample of 350 retail on-highway diesel fuel outlets. The sample for the survey was designed to yield price estimates at the PADD, sub-PADD and national level, and for the state of California. A 1 cent standard error was targeted for PADDs 1, 2 and 3, and 1.5 cents for PADDs 4, 5, sub-PADDs 1A, 1B, 1C, and the state of California. Standard errors for determining the sample size were estimated using data from the EIA-888 survey. The EIA-888 sample was derived as a probability proportional to size subsample of the respondents from the EIA-782A and EIA-782B sample who reported on-highway diesel fuel sales where the reported volume was the company size. Specific outlets within a company were selected using probability proportional to size sampling according to data provided by the company when initiated to the survey.

### **Collection Methods**

Survey data for the WPSRS are collected by mail, mailgram, telephone, Telex, facsimile, and electronic transmission on a weekly basis. All canvassed firms must file by 5:00 p.m. on the Monday following the close of the report week, 7:00 a.m. Friday. During the processing week, company corrections of the prior week's data are also entered. Survey data are collected weekly by telephone and facsimile for the EIA-878 and EIA-888. It is mandatory for each monthly respondent to submit completed forms to EIA no later than 30 calendar days after the close of each reference month. For the EIA-878 and EIA-888 surveys, data are mostly collected through a Computer Assisted Telephone Interview (CATI) survey processing system on Monday of each week as of 8:00 a.m. local time. If Monday is a holiday, the calls are made on the next business day, however, the Monday price is recorded.

### **Data Processing**

Data collected through WPSRS are received, logged into an automated Survey Control File, keyed and processed through an edit program. Data that fail the edits are resolved through telephone calls to the respondents. Statistical reports, including publication tables, are generated using only acceptable and

1 Sampling cells are the smallest basic geopgraphical units formed by the boundaries of the geographic and formulation areas for which average prices are published. Sampling cells are mutually exclusive and collectively exhaustive.

verified data. Imputation is performed for nonrespondents and for data that fail the edits. Data from the EIA-878 and EIA-888 telephone surveys are received over the telephone and entered on-line at collection time by the interviewer and edited.

### **Estimation And Imputation**

Survey data gathered from the respondents invariably contain incomplete reporting, nonresponse, and values that fail editing. Imputation for nonrespondents in the WPSRS data base is performed after the company reports have been checked and entered into the system. The imputed values are exponentially smoothed means of recent weekly reported values for this specific company. The imputed values are treated like reported values in the estimation procedure, which calculates ratio estimates of the weekly totals. First, the current week's data for a given product reported by companies in a geographic region are summed. (Call this weekly sum, W<sub>s</sub>.) Next, the most recent month's data for the product reported by those same companies are summed. (Call this monthly sum, M<sub>s</sub>.) Finally, let M<sub>t</sub> be the sum of most recent month's data for the product as reported by all companies. Then, the current week's ratio estimate for that product for all companies, Wt, is given by:

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

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

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

EIA-878 outlet prices are weighted by the estimated volume per outlet for each formulation and grade of gasoline, and by PADD. EIA-888 outlet prices have a constant weight within a PADD, sub-PADD and the state of California. Average prices are weighted by their respective volume percent of the U.S. volume of retail on-highway diesel fuel sales to derive the national average price.

### **Response Rates**

The response rate at the close of business on the filing deadline day is about 80 percent for the EIA-800, 75 percent for the EIA-801, 95 percent for the EIA-802, 80 percent for the EIA-803, and greater than 95 percent for the EIA-804, and about 80 percent for the EIA-805. However, more forms are received the next day, bringing the final response rates up. Late respondents are contacted by telephone. Nearly all of the major companies report on time. The response rate for the published estimates is usually between 98 percent and 100 percent. The response rates on Forms EIA-878, and EIA-888 are usually 98 to 100 percent.

# **Reliability Of Data**

There are two types of errors possible in an estimate based on a sample survey: sampling and nonsampling. Sampling errors occur because observations are made only on a sample, not on the entire population. Non-sampling errors can be attributed to many sources in the collection and processing of data. The accuracy of survey results is determined by the joint effects of sampling and nonsampling errors.

# **Measures Of Sampling Variability**

Tables showing data from the EIA-878, and EIA-888 surveys utilize a sample of resellers and retailers and, therefore, have sampling error. The particular sample used for each of the EIA-878, and EIA-888 surveys is one of a large number of all possible samples that could have been selected using the same design. Estimates derived from the different possible samples would differ from each other. The average of these estimates would be close to the estimate derived from a complete enumeration of the population (a census), assuming that a complete enumeration has the same nonsampling errors as the sample survey. The sampling error, or standard error of the estimate, is a measure of the variability among the estimates from all possible samples of the same size and design and, thus, is a measure of the precision with which an estimate from a particular sample approximates the results of a complete enumeration.

### **Nonsampling Errors**

Nonsampling errors can be attributed to many sources such as incorrect reporting by respondents, mistakes in recording or coding the data, and other errors of collection, response, coverage, and estimation for missing data.

# Confidentiality

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

The information contained on this form will be kept confidential and not be disclosed to the public to the extent that it satisfies the criteria for exemption under the Freedom of Information Act (FOIA), 5 U.S.C. §552, the DOE regulations, 10 C.F.R. §1004.11, implementing the FOIA, and the Trade Secrets Act, 18 U.S.C. §1905.

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

### **Estimation Of Domestic Crude Oil Production**

Monthly data on crude oil production for States are reported to the Department of Energy by State conservation agencies. Data on the volume of crude oil produced on Federally-owned offshore leases are reported by the Minerals Management Service, U.S. Department of the Interior. There is a time lag of approximately 4 months between the end of the reporting month and the time when the monthly crude oil production information becomes available. In order to present timelier crude oil production volumes, the Energy Information Administration prepares weekly crude oil production estimates which are based on historical production patterns and, where available, other data such as pipeline runs from the Alaskan North Slope during the week. These weekly estimates are presented as the weekly and 4-week average crude oil production volumes shown in this publication. Cumulative crude oil production volumes shown in the U.S. Petroleum Balance Sheet include revised estimates published in the Petroleum Supply Monthly.

### **Estimation Of Exports**

Official U.S. exports statistics for crude oil and petroleum products are compiled by the U.S. Bureau of the Census and are published in the Petroleum Supply Monthly. The EIA obtains these data on a monthly basis approximately 10 weeks after the close of the reporting month. 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 exports 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. Because of the reduction in volume of crude oil exports, and a shift in the country distribution, a new model was implemented on November 2, 2001 to determine the expected volume of crude oil exports.

# **Estimation Of Other Oils Stocks**

Data are derived by (1) computing an average daily rate of stock change for the minor products for each month based on monthly

data for the past 6 years; (2) using this daily rate and the minor stock levels from the most recent monthly publication to estimate the minor product stock level for the current period. Year ago data are interpolated from published monthly stock levels.

### **Data Revision**

With respect to the weekly PSRS data, EIA will disseminate revised data only if the revision is expected to substantively affect understanding of the U.S. petroleum supply. Whether to disseminate a revision to weekly data will be based on EIA's judgment of the revision's expected effect. If a revision is necessary, it will be disseminated in the next regularly scheduled release of the weekly products.

The monthly PSRS data reflect EIA's official data on petroleum supply and are considered to be more accurate than the weekly data because they are generally based upon company accounting records instead of company estimates and EIA has more time to edit and correct anomalous data. With respect to the monthly PSRS data, EIA will disseminate revised data during the year only if the revision is expected to substantively affect understanding of the U.S. petroleum supply. Whether to disseminate a revision during the year will be based on EIA's judgment of the revision's expected effect. At the end of year, the monthly data are revised to reflect all resubmitted data received during the year. These official final monthly petroleum supply data are included in the *PSA*.

The *PSA* reflects EIA's final data on petroleum supply and will be revised only if, in EIA's judgment, a revision is expected to substantively affect understanding of the U.S. petroleum supply.

When EIA disseminates any revised PSRS data, it will alert users to the affected data value(s) that are revised.

# **Data Assessment**

The principal objective of the Petroleum Supply Reporting System is to provide an accurate picture of petroleum industry activities and of the availability of petroleum products nationwide from primary distribution channels. The weekly data, which are based on sample estimates stemming largely from preliminary company data, serve as leading indicators of the monthly data. The weekly data are not expected to have the same level of accuracy as the preliminary monthly data when compared with final monthly data. However, the weekly data are expected to exhibit like trends and product flows characteristic of the preliminary and final monthly data.

To assess the accuracy of weekly statistics, monthly estimates derived from weekly estimates are compared with the final monthly aggregates published in the *Petroleum Supply Annual*. Although final monthly data are still subject to error, they have been thoroughly reviewed and edited, they reflect all revisions made during the year and they are considered to be the most accurate data available. The mean absolute percent error provides a measure of the average revisions relative to the aggregates being measured for a variable. The mean absolute percent error for 2006 weekly data was less than 2 percent for 27 of the 62 major petroleum variables analyzed. Many of the variables with mean absolute percent errors of 2 percent or more were for refined products imports series. The mean absolute percent error for total weekly refined products imports was 4.48 percent for 2006. It should be noted that products imports data are highly variable and cannot be estimated from a sample with the same precision as other petroleum variables. Weekly estimates for refined products imports are almost always low because small companies, which are not in the weekly sample, generally import large volumes of finished products only a few times during the year.

An analytical article, "Accuracy of Petroleum Supply Data," which assesses the differences between preliminary and final data on the 56 major petroleum variables, is published in the *Petroleum Supply Monthly* once each year.

# Interpretation And Derivation Of Average Inventory Levels

The national inventory (stocks) graphs for total petroleum products, crude oil, motor gasoline, distillate fuel oil, residual fuel oil, and propane in this publication include features to assist in comparing current inventory levels with past inventory levels and with judgments of critical levels. The method used in developing the average inventory levels is described below.

### **Average Inventory Levels**

The graphs displaying inventory levels of crude oil and petroleum products, crude oil, motor gasoline, distillate fuel oil, residual fuel oil, and propane provide the reader with actual inventory data compared to an "average range" for the most recent 5-year period running from January through December or from July through June. The ranges also reflect seasonal variation for the past 7 years. The seasonal factors, which determine the shape of the upper and lower curves, are estimated with a seasonal adjustment technique developed at the Bureau of Census (Census X-11). The seasonal factors are assumed to be stable (i.e., the same seasonal factor is used for each January during the 7-year period) and additive (i.e., the series is deseasonalized by subtracting the seasonal factor for the appropriate month from the reported inventory levels). The intent of deseasonalization is to remove only annual variation from the data. Thus, deseasonalized series would contain the same trends, cyclical components, and irregularities as the original data. The seasonal factors are updated annually in October, using the 7 most recent years' final monthly data. The seasonal factors are used to deseasonalize data from the most recent 5-year period (January-December or July-June) in order to determine a deseasonalized average band. The average of the deseasonalized 60-month series is the midpoint of the band, and two standard deviations of the series (adjusting first for extreme points) is its width. When the seasonal factors are added back in (the upper curve is the midpoint plus one standard deviation plus the seasonal factor, and the lower curve is the midpoint minus one standard deviation plus the seasonal factor), the "average range" shown on the graphs reflects the actual data.

The ranges are updated every 6 months in April and October (Table A1).

# **Calculation of World Oil Price**

The weighted average international price of oil, shown in the "Highlights" and on Table 13, is an average calculated using specific crude oil prices weighted by the estimated crude oil export volume for each oil-producing country. To develop the Table 13, a list of major oil producing/exporting countries was chosen. For each country, the contract selling price of one or more representative crude oils was determined by investigating a number of industry publications (i.e., "Oil Buyers' Guide", "Platt's Oilgram Price Report", "Petroleum Intelligence Weekly", and "Weekly Petroleum Argus") and by contacting oil market analysts. Then, the appropriate crude oil volumes to be used as weighting factors for each country were determined. These volumes are estimates based on a number of sources which provide data on production, consumption, and exports for these countries. Export volumes for a number of smaller producing/exporting countries, not listed in the table, are included in the weighting factors. After the export volumes had been determined, simple mathematical weighted averages were calculated to arrive at the "Total OPEC," "Total Non-OPEC," and "Total World" prices. The average United States (FOB) import price is derived by the same basic procedure as the world oil price, that is, taking the representative contract crude oil price of a specific crude oil from a particular country and weighting this price by a certain volume of crude oil. In this case, the weighting factors are the volumes of crude oil imported into the U.S. from pertinent countries. Import volumes from a number of smaller producing/exporting countries, not listed in the table, are included in the weighting factors.

Both the import and export volumes are preliminary. Due to their origin, these estimates cannot be fully verified. These volumes are updated monthly, or more frequently when changes in oil market conditions make updating appropriate.

# Form EIA-807 Propane Survey

The Form EIA-807, "Propane Telephone Survey," was implemented in April 1990 as the result of the 1989 propane supply disruption. The hardships experienced by propane users during the December 1989 cold-snap in the Northeast and Mid-Continent areas made the need for timely supply information imperative. During 1990, propane data was collected and provided to Congress and others upon request.

### **Respondent Frame**

The sample of companies that report monthly is selected from the universe of respondents that report on the monthly surveys listed below:

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

# Table A1. Upper and Lower Limits of Average Ranges in Inventory Graphs (Million Barrels)

PADD 1		Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	0ct	Nov	Dec
Crude 011. 122.1 328.4 339.2 346.0 345.5 340.9 333.3 324.8 320.8 330.8 326.9 13   PAD0 14.9 16.1 18.0 15.8 16.3 16.5 16.9 15.6 16.4 15.4 14.9 15.8 15.5 16.9 15.6 16.4 15.4 15.4 15.9 17.5 17.7 17.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8					UF	PER LIMIT	Г						
PADD 1	Total Petroleum	1,018.4	1,003.0	999.5	1,015.2	1,040.9	1,051.1	1,055.7	1,047.7	1,047.3	1,049.3	1,050.3	1,024.9
pADD 2		322.1	328.4	339.2	346.0	345.5	340.9	332.3	324.8	320.8	330.8	326.9	319.2
PAD0 3   173.4   175.3   182.6   127.8   178.8   178.8   178.8   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7   178.7	PADD 1	14.0	16.1	16.1	15.8	16.5	16.3	16.5	16.0	15.6	16.1	15.4	15.1
PADD 4	PADD 2	67.5	68.5	71.9	72.8	72.1	70.3	70.3	68.2	66.7	68.6	69.4	69.2
PADD 5													169.4
Metor Gasoline. 223.6 221.7 214.5 217.7 218.0 213.9 207.1 210.0 206.2 214.0 21   PADD 1 66.6 59.4 57.6 55.4 55.5 54.8 56.4 56.4 56.4 56.4 56.9 59.7 55.2 56.5 54.8 56.4 56.4 56.9 56.9 56.9 56.9 56.7 56.9 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2 66.2													14.0
PARD 1													53.6
PADD 2													216.6
PAD0 3													57.9
PAD0 4													54.3 67.5
PADD 5													6.9
Distillate Fuel 011 136.0 126.4 118.9 117.5 123.8 128.8 136.5 140.6 138.1 135.4 140.1 140.1   PADD 1													32.6
PADD 1													
PADD 2													142.8
PADD 3													63.7
PADD 4													31.7
PADD 5													33.9
Residual Fuel Oil													3.5 13.5
PADD 1	PADD 5	12.9	12.5	12.5	12.7	13.1	12.4	12.5	12.2	12.5	12.5	12.7	15.5
PADD 2		42.7	42.2	41.1		39.8	40.4	39.4	37.8	38.8	39.9	42.8	42.2
PADD 3	PADD 1	17.0	16.5	15.4	15.3	16.8	16.3	15.5	15.2	15.4	16.6	17.7	18.2
PADD 4	PADD 2	2.0	1.9	1.8	2.0	1.9	1.9	2.1	2.1	2.0	1.9	1.9	1.9
PADD 5	PADD 3	18.0	18.2	18.0	16.7	16.5	16.7	16.4	15.6	16.5	16.3	17.9	17.2
Propane 45.5 33.6 30.5 35.9 43.5 51.9 60.1 65.6 69.4 70.1 66.3 5.9   PADD 1 16.4 11.9 10.5 12.7 15.7 18.7 21.4 23.8 28.3 32.6 34.5 37.9 36.4 3   PADD 2 24.1 18.5 17.5 20.2 23.8 28.3 32.6 34.5 37.6 37.9 36.4 3   PADD 1 24.1 18.5 17.5 20.2 23.8 28.3 32.6 34.5 976.0 975.5 977.6 978.5 95   Crude 0il 282.9 289.2 300.8 306.8 301.7 29.1 285.6 281.6 291.6 287.7 28   PADD 1 12.4 14.5 14.2 15.0 14.7 14.9 14.4 14.1 14.5 13.8 11.9 148.0 145.1 148.1 11.8 12.2 12.1 11 PADD 11.8 12.2 12.1 11 PADD 13.8 15.1 5.6 5.7													0.4
PADD 1	PADD 5	6.2	6.4	6.6	6.3	6.1	5.9	6.3	6.0	5.7	6.1	6.2	5.9
PADD 2													58.8
PADD 3 24.1 18.5 17.5 20.2 23.8 28.3 32.6 34.5 37.6 37.9 36.4 33.5   LOWER LIMIT   Total Petroleum													5.4
LOWER LIMIT     Total Petroleum													21.8 31.1
Total Petroleum		24.1	18.5	17.5				52.0	J4.J	57.0	57.5	50.4	51.1
Crude 0i1													
PADD 1 12.4 14.5 14.5 14.2 15.0 14.7 14.9 14.4 14.1 14.5 13.8 1   PADD 2 159.1 60.0 63.5 64.4 63.7 61.8 61.9 59.8 58.2 60.2 61.0 6   PADD 3 145.5 147.4 154.7 159.0 158.4 157.1 150.9 148.0 148.8 14.1 14.5 148.9 148.9 148.9 148.9 148.9 148.9 148.9 148.9 148.9 148.9 148.9 148.9 148.9 148.9 148.9 148.9 148.9 148.9 148.9 148.9 148.9 148.9 148.9 148.9 148.9 148.9 148.9 148.9 13.8 12.2 12.1 1 11 14.5 13.8 12.9 12.6 118.8 11.9 118.8 12.2 12.1 1 148.9 148.9 148.9 151.3 50.0 50.5 55.7 55.8 54.1 49.5 50.9 49.3 56.8 50.9 50.9 50.	lotal Petroleum	946.6	931.2	927.8	943.5	969.2	9/9.4	983.9	976.0	9/5.5	977.6	978.5	953.2
PADD 2	Crude 0i1	282.9	289.2	300.0	306.8	306.3	301.7	293.1	285.6	281.6	291.6	287.7	280.0
PADD 3 145.5 147.4 154.7 159.6 158.4 157.1 150.9 148.0 145.8 151.9 148.9 14   PADD 4 50.4 52.7 53.6 53.8 54.6 54.3 51.7 49.7 48.9 51.3 50.0 5   Motor Gasoline 54.9 53.7 52.0 53.7 55.7 55.8 54.1 49.5 50.9 49.3 50.8 56.9 59.9 49.3 50.8 50.9 50.8 50.9 49.3 50.8 50.9 75.7 55.8 54.1 49.5 50.9 49.3 50.8 50.9 75.7 56.8 50.8 48.6 50.0 48.5 50.9 75.7 5.4 52.2 5.7 5.7 6.1 61.9 61.9 62.9 61.9 51.2 5.7 5.7 6.1 61.9 62.9 61.9 51.2 5.7 5.7 5.4 52.2 5.7 5.7 5.4 52.2 5.7 5.7 5.4 52.2 52.2 54.8 33 33.0 33.2 <	PADD 1	12.4	14.5	14.5	14.2	15.0	14.7	14.9	14.4	14.1	14.5	13.8	13.6
PADD 4 12.2 12.2 12.7 13.0 12.9 12.6 11.8 11.9 11.8 12.2 12.1 1   PADD 5 50.4 52.7 53.6 53.8 54.6 54.3 51.7 49.7 48.9 51.3 50.0 5   Motor Gasoline 212.0 210.3 201.2 202.9 206.1 206.4 202.4 195.5 198.5 194.6 202.5 20   PADD 1		59.1	60.0	63.5	64.4	63.7	61.8	61.9	59.8	58.2	60.2	61.0	60.7
PADD 5 50.4 52.7 53.6 53.8 54.6 54.3 51.7 49.7 48.9 51.3 50.0 5   Motor Gasoline 212.0 210.3 201.2 202.9 206.1 206.4 202.4 195.5 198.5 194.6 202.5 20   PADD 1		145.5	147.4	154.7	159.6	158.4	157.1	150.9	148.0	145.8	151.9	148.9	141.5
Motor Gasoline		12.2	12.2	12.7	13.0	12.9		11.8	11.9	11.8	12.2	12.1	12.3
PADD 1 54.9 53.7 52.0 53.7 55.7 55.8 54.1 49.5 50.9 49.3 50.8 50.9   PADD 2 53.3 53.2 50.0 48.7 50.2 50.3 50.8 48.6 50.0 48.5 50.9 61.3 61.9 59.8 61.3 61.9 62.9 61.9 59.8 61.3 61.9 62.9 61.9 59.8 61.3 61.9 62.9 61.9 59.8 61.3 61.9 62.9 61.9 59.8 61.3 61.9 62.9 61.9 59.8 61.3 61.9 62.9 61.9 59.8 61.3 61.0 62.9 62.9 61.9 59.8 61.3 61.0 62.9 62.9 61.9 59.8 61.3 61.0 61.0 61.0 61.0 61.0 61.0 61.0 61.0 61.0 61.0 61.0 61.0 61.0 61.0 61.0 61.0 61.0 61.0 61.0 61.0 61.0 61.0 61.0 61.0 61.0 61.0 71.0 71.0 71	PADD 5	50.4	52.7	53.6	53.8	54.6	54.3	51.7	49.7	48.9	51.3	50.0	50.2
PADD 2 53.3 53.2 50.0 48.7 50.2 50.3 50.8 48.6 50.0 48.5 50.9 5   PADD 3 64.4 65.6 61.6 63.0 62.9 61.9 59.8 61.3 61.9 62.7 6   PADD 4 6.9 6.9 6.3 5.5 5.7 5.7 5.4 5.2 5.7 5.7 6.1   PADD 5 30.9 29.4 28.5 28.7 28.9 29.1 28.8 28.4 28.4 27.1 28.8 3   Distillate Fuel 0il 123.1 113.5 106.0 104.6 110.9 115.9 123.6 127.7 125.2 122.5 52.2 54.8 5 29 29.7 28.9 27.0 26.9 27.8 28.2 28.3 28.5 27.9 24.5 25.9 22 29.9 3   PADD 3 29.0 28.8 28.8 28.1 29.7 31.7 31.3 28.6 29.2 29.9 3 29 29.4 25.5 2.2	Motor Gasoline	212.0	210.3	201.2	202.9	206.1	206.4	202.4	195.5	198.5	194.6	202.5	205.0
PADD 3 64.4 65.6 61.6 63.0 62.9 61.9 59.8 61.3 61.9 62.7 6   PADD 4 6.9 6.9 6.3 5.5 5.7 5.7 5.4 5.2 5.7 5.7 6.1 7 7 6.1   PADD 5 30.9 29.4 28.5 28.7 28.9 29.1 28.8 28.4 28.4 27.1 28.8 3   Distillate Fuel 0il 123.1 113.5 106.0 104.6 110.9 115.9 123.6 127.7 125.2 122.5 127.2 13   PADD 1 46.7 40.5 34.4 31.9 35.4 41.2 47.0 51.2 52.5 52.2 54.8 5   PADD 3 29.0 28.8 28.0 28.8 28.5 27.9 24.5 29.9 3   PADD 4 2.9 2.8 2.8 2.7 2.9 2.8 2.5 2.3 2.4 2.5 2.9 3   PADD 5 11.4 10.8 10.9 <td>PADD 1</td> <td>54.9</td> <td>53.7</td> <td>52.0</td> <td>53.7</td> <td>55.7</td> <td>55.8</td> <td>54.1</td> <td>49.5</td> <td>50.9</td> <td>49.3</td> <td>50.8</td> <td>52.3</td>	PADD 1	54.9	53.7	52.0	53.7	55.7	55.8	54.1	49.5	50.9	49.3	50.8	52.3
PADD 4 6.9 6.9 6.3 5.5 5.7 5.7 5.4 5.2 5.7 5.7 6.1   PADD 5 30.9 29.4 28.5 28.7 28.9 29.1 28.8 28.4 28.4 27.1 28.8 3   Distillate Fuel 0il 123.1 113.5 106.0 104.6 110.9 115.9 123.6 127.7 125.2 122.5 127.2 13   PADD 1 46.7 40.5 34.4 31.9 35.4 41.2 47.0 51.2 52.5 52.2 54.8 55.9 2 28.8 28.0 28.3 28.5 27.9 24.5 25.9 2 29.9 28.8 28.8 28.8 28.8 28.6 28.2 28.3 28.6 29.2 29.9 3 24 2.5 2.9 29.9 28 28.8 28.6 23.5 2.3 2.4 2.5 2.9 29.9 3 21.5 2.3 2.4 2.5 2.9 29.9 3 28.5 23.5 23.5 2.5 2.3		53.3	53.2	50.0	48.7	50.2	50.3	50.8		50.0	48.5	50.9	51.2
PADD 5 30.9 29.4 28.5 28.7 28.9 29.1 28.8 28.4 28.4 27.1 28.8 33   Distillate Fuel 0il 123.1 113.5 106.0 104.6 110.9 115.9 123.6 127.7 125.2 122.5 127.2 13   PADD 1 46.7 40.5 34.4 31.9 35.4 41.2 47.0 51.2 52.5 52.2 54.8 55.9 2   PADD 2 29.7 28.9 27.0 26.9 27.8 28.2 28.3 28.5 27.9 24.5 25.9 2 29.9 3   PADD 3 2.9 2.8 2.8 2.7 2.9 2.8 2.5 2.3 2.4 2.5 2.9 2.9   PADD 5 11.4 10.8 10.9 11.3 11.7 11.0 11.1 10.7 10.9 11.1 11.3 11 11.1 10.7 10.9 11.1 11.3 11 11.1 11.1 11.1 11.1 11.1 11.1 11.1 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>62.7</td></t<>													62.7
Distillate Fuel Oil 123.1 113.5 106.0 104.6 110.9 115.9 123.6 127.7 125.2 122.5 127.2 13   PADD 1 46.7 40.5 34.4 31.9 35.4 41.2 47.0 51.2 52.5 52.2 54.8 5   PADD 2 29.7 28.9 27.0 26.9 27.8 28.2 28.3 28.5 27.9 24.5 29.9 33   PADD 3 2.9 2.8 2.8 2.1 2.7 31.3 28.6 29.9 28   PADD 4 2.9 2.8 2.8 2.7 2.9 2.8 2.5 2.3 2.4 2.5 2.9 33   PADD 5 11.4 10.8 10.9 11.3 11.7 11.0 11.1 10.7 10.9 11.1 11.3 11   Residual Fuel Oil 38.4 37.9 36.9 35.2 35.6 36.2 35.2 33.5 34.5 35.6 38.6 3   PADD 1 13.9 13.5													6.4
PADD 1 46.7 40.5 34.4 31.9 35.4 41.2 47.0 51.2 52.5 52.2 54.8 55.9   PADD 2 29.7 28.9 27.0 26.9 27.8 28.2 28.3 28.5 27.9 24.5 25.9 2 29.9 3   PADD 3 2.9 2.8 28.0 28.8 30.1 29.7 31.7 31.3 28.6 29.2 29.9 3   PADD 4 2.9 2.8 2.8 2.7 2.9 2.8 2.5 2.3 2.4 2.5 2.9 2.9   PADD 5 11.4 10.8 10.9 11.3 11.7 11.0 11.1 10.7 10.9 11.1 11.3 11   Residual Fuel 0i1 38.4 37.9 36.9 35.2 35.6 36.2 35.2 33.5 34.5 35.6 38.6 38.9   PADD 1 13.9 13.5 12.3 12.2 13.7 13.2 12.5 12.1 12.4 13.5 14.6 1 14.6 <td>PADD 5</td> <td>30.9</td> <td>29.4</td> <td>28.5</td> <td>28.7</td> <td>28.9</td> <td>29.1</td> <td>28.8</td> <td>28.4</td> <td>28.4</td> <td>27.1</td> <td>28.8</td> <td>30.3</td>	PADD 5	30.9	29.4	28.5	28.7	28.9	29.1	28.8	28.4	28.4	27.1	28.8	30.3
PADD 1 46.7 40.5 34.4 31.9 35.4 41.2 47.0 51.2 52.5 52.2 54.8 55.9   PADD 2 29.7 28.9 27.0 26.9 27.8 28.2 28.3 28.5 27.9 24.5 25.9 2 29.9 3   PADD 3 2.9 2.8 2.8 28.0 28.8 30.1 29.7 31.7 31.3 28.6 29.2 29.9 3   PADD 4 2.9 2.8 2.8 2.7 2.9 2.8 2.5 2.3 2.4 2.5 2.9 2.9   PADD 5 11.4 10.8 10.9 11.3 11.7 11.0 11.1 10.7 10.9 11.1 11.3 1   PADD 1 38.4 37.9 36.9 35.2 35.6 36.2 35.2 33.5 34.5 35.6 38.6 38.9   PADD 1 13.9 13.5 12.3 12.2 13.7 13.2 12.5 12.1 12.4 13.5 14.6 1 <t< td=""><td>Distillate Fuel Oil</td><td>123.1</td><td>113.5</td><td>106.0</td><td>104.6</td><td>110.9</td><td>115.9</td><td>123.6</td><td>127.7</td><td>125.2</td><td>122.5</td><td>127.2</td><td>130.0</td></t<>	Distillate Fuel Oil	123.1	113.5	106.0	104.6	110.9	115.9	123.6	127.7	125.2	122.5	127.2	130.0
PADD 2 29.7 28.9 27.0 26.9 27.8 28.2 28.3 28.5 27.9 24.5 25.9 2   PADD 3 29.0 28.8 28.0 28.8 30.1 29.7 31.7 31.3 28.6 29.2 29.9 3   PADD 4 2.9 2.8 2.8 2.7 2.9 2.8 2.5 2.3 2.4 2.5 2.9 3   PADD 5 11.4 10.8 10.9 11.3 11.7 11.0 11.1 10.7 10.9 11.1 11.3 1   Residual Fuel 0i1 38.4 37.9 36.9 35.2 35.6 36.2 35.2 33.5 34.5 35.6 38.6 3   PADD 1 13.9 13.5 12.3 12.2 13.7 13.2 12.1 12.4 13.5 14.6 1   PADD 2 1.4 1.3 1.2 1.4 1.3 1.3 1.5 1.4 1.3 1.3   PADD 3 0.3 0.3 0.3 0.3									51.2	52.5			53.3
PADD 4 2.9 2.8 2.8 2.7 2.9 2.8 2.5 2.3 2.4 2.5 2.9   PADD 5 11.4 10.8 10.9 11.3 11.7 11.0 11.1 10.7 10.9 11.1 11.3 1   Residual Fuel 0i1 38.4 37.9 36.9 35.2 35.6 36.2 35.2 33.5 34.5 35.6 38.6 3   PADD 1 13.9 13.5 12.3 12.2 13.7 13.2 12.5 12.1 12.4 13.5 14.6 1   PADD 2 1.4 1.3 1.2 1.4 1.3 1.3 1.5 1.5 1.4 1.3 1.3   PADD 3 15.7 15.9 15.7 14.4 14.2 14.4 14.1 13.2 14.2 14.0 15.6 1   PADD 4 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 <	PADD 2	29.7	28.9	27.0	26.9	27.8	28.2	28.3	28.5	27.9	24.5	25.9	29.2
PADD 5 11.4 10.8 10.9 11.3 11.7 11.0 11.1 10.7 10.9 11.1 11.3 1   Residual Fuel Oil 38.4 37.9 36.9 35.2 35.6 36.2 35.2 33.5 34.5 35.6 38.6 3   PADD 1 13.9 13.5 12.3 12.2 13.7 13.2 12.5 12.1 12.4 13.5 14.6 1   PADD 2 1.4 1.3 1.2 1.4 1.3 1.3 1.5 1.5 1.4 1.3 1.3   PADD 3 15.7 15.9 15.7 14.4 14.2 14.4 14.1 13.2 14.2 14.0 15.6 1   PADD 3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0	PADD 3	29.0	28.8	28.0	28.8	30.1	29.7	31.7	31.3	28.6	29.2	29.9	30.2
Residual Fuel Oil 38.4 37.9 36.9 35.2 35.6 36.2 35.2 33.5 34.5 35.6 38.6 3   PADD 1 13.9 13.5 12.3 12.2 13.7 13.2 12.5 12.1 12.4 13.5 14.6 1   PADD 2 1.4 1.3 1.2 1.4 1.3 1.5 1.5 1.4 1.3 1.3   PADD 3 15.7 15.9 15.7 14.4 14.2 14.4 14.1 13.2 14.2 14.0 15.6 1   PADD 4 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 <td< td=""><td>PADD 4</td><td>2.9</td><td>2.8</td><td>2.8</td><td>2.7</td><td>2.9</td><td>2.8</td><td>2.5</td><td>2.3</td><td>2.4</td><td>2.5</td><td>2.9</td><td>3.1</td></td<>	PADD 4	2.9	2.8	2.8	2.7	2.9	2.8	2.5	2.3	2.4	2.5	2.9	3.1
PADD 1 13.9 13.5 12.3 12.2 13.7 13.2 12.5 12.1 12.4 13.5 14.6 1   PADD 2 1.4 1.3 1.2 1.4 1.3 1.5 1.5 1.4 1.3 1.3   PADD 3 15.7 15.9 15.7 14.4 14.2 14.4 14.1 13.2 14.2 14.0 15.6 1   PADD 4 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	PADD 5	11.4	10.8	10.9	11.3	11.7	11.0	11.1	10.7	10.9	11.1	11.3	12.1
PADD 1 13.9 13.5 12.3 12.2 13.7 13.2 12.5 12.1 12.4 13.5 14.6 1   PADD 2 1.4 1.3 1.2 1.4 1.3 1.5 1.5 1.4 1.3 1.3   PADD 3 15.7 15.9 15.7 14.4 14.2 14.4 14.1 13.2 14.2 14.0 15.6 1   PADD 4 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	Residual Fuel Oil	38.4	37.9	36.9	35.2	35.6	36.2	35.2	33.5	34.5	35.6	38.6	38.0
PADD 3 15.7 15.9 15.7 14.4 14.2 14.4 14.1 13.2 14.2 14.0 15.6 1   PADD 4 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	PADD 1	13.9	13.5	12.3	12.2	13.7	13.2	12.5	12.1	12.4	13.5	14.6	15.2
PADD 4 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	PADD 2	1.4	1.3	1.2	1.4	1.3	1.3	1.5	1.5	1.4	1.3	1.3	1.3
PADD 5 5.5 5.6 5.8 5.6 5.4 5.2 5.6 5.3 5.0 5.4 5.5   Propane 38.2 26.3 23.2 28.6 36.2 44.6 52.8 57.7 62.1 62.8 61.1 5   PADD 1 3.3 2.5 2.4 2.5 3.2 3.6 4.3 4.3 4.4 4.8 5.0   PADD 2 14.1 9.5 8.1 10.4 13.3 16.4 19.0 21.5 22.6 22.2 21.9 1													14.9
Propane   38.2   26.3   23.2   28.6   36.2   44.6   52.8   57.7   62.1   62.8   61.1   5     PADD 1   3.3   2.5   2.4   2.5   3.2   3.6   4.3   4.3   4.4   4.8   5.0     PADD 2   14.1   9.5   8.1   10.4   13.3   16.4   19.0   21.5   22.6   22.2   21.9   1													0.3
PADD 1   3.3   2.5   2.4   2.5   3.2   3.6   4.3   4.4   4.8   5.0     PADD 2   14.1   9.5   8.1   10.4   13.3   16.4   19.0   21.5   22.6   22.2   21.9   1	PADD 5	5.5	5.6	5.8	5.6	5.4	5.2	5.6	5.3	5.0	5.4	5.5	5.2
PADD 2 14.1 9.5 8.1 10.4 13.3 16.4 19.0 21.5 22.6 22.2 21.9 1													51.5
													4.6
י א א א א א א א א א א א א א א א א א א א													19.4
	PADD 3	17.7	12.1	11.1	13.7	17.4	21.9	26.1	28.1	31.2	31.4	30.0	24.7

# Sampling

The sampling procedure used for the EIA-807 is the cut-off method. In the cut-off method, facilities are ranked from largest to smallest on the basis of quantities reported for propane production, imports, and stocks. Companies are chosen for the sample beginning with the largest and adding companies until the total sample covers about 90 percent of the total for each item and each geographic region (Petroleum Administration for Defense Districts I (IA, IB, IC), II and III) for which data are published. A bench mark factor is used to capture the remaining 10 percent of the propane industry.

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

### **Collection Methods**

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

### **Estimation and Imputation**

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

After the data files have been edited and corrected, aggregation is done for each geographic region. Estimation factors, derived similarly to those described on page 32, are then applied to each cell to generate published data.

### **Response Rate**

The response rate is generally 95 to 100 percent. Chronic nonrespondents and late filing respondents are contacted by telephone and reminded of their requirement to report. Nearly all of the major companies report on time. The nonresponse rate for the published estimate is usually between 1 percent and 2 percent.

### **Propane Figures**

The national and PADD level inventory (stocks) graphs include features to assist in comparing current inventory levels with past inventory levels and with judgements of critical levels. Figure 7 provides the reader with actual inventory data compared to an "average range" for the most recent 5-year period running from January through December or from July through June. The ranges also reflect seasonal variation for the past seven years. See page 38 for a further discussion.

# **Technical Notes**

#### Note 1

The spot prices that are shown in Tables 14 and 15 are calculated by taking an unweighted average of the daily closing spot prices for a given product over a specified time period, such as a week or month.

### Note 2

The futures prices shown in Table 16 are the official daily closing prices at 2:30 p.m. from the trading floor of the New York Mercantile Exchange (NYMEX) for a specific delivery month for each product listed in Table 16.

#### Note 3

The futures price differentials shown in Figure 13 show the market premium for the first NYMEX delivery month contract over the second. For example, the data for September show the difference between October and November futures contract prices for crude oil and petroleum products, indicating the relative values placed by markets on commodities to be delivered during those two months. This differential, if negative and large enough, provides incentive for refiners and traders to hold product in storage, and if positive, to defer purchases until some future point in time.

### Note 4

The retail gasoline prices shown in Table 17 reflect sales of reformulated gasoline (RFG) in those areas where required by Federal or State law, and conventional gasoline elsewhere (see Figure A1). Areas requiring RFG may change over time due to the ozone non-attainment status of an area being re-designated by the Environmental Protection Agency (EPA), a State opting in or out of an EPA clean fuel program, or a State adopting its own specific clean fuel program. EIA reclassifies the outlets reporting retail gasoline prices each time an area shifts in or out of a reformulated gasoline program. "Conventional areas" in this instance include areas where oxygenated gasoline may be required for all or part of the year.



Figure A1. Gasoline Formulation Required by Area as of June 1, 2004

Source: U.S. Environmental Protection Agency and State environmental offices.