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# Petroleum Supply Monthly

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#### This Month in the PSM

The sax of the Perclaim Supply Monthly focuses on oracle oil procedure statistics: "Overgardens of Independent Statistics on Petroleum Supply," commercial and immediate Petroleum Supply, "commercial and immediate Petroleum Supply, "home data from EAR Petroleum Supply, Annual with outside EIA. This article, which begins on page xill ciscusses EIA desa series for cruce oil imports, mortor gazonies supplied, and distillate and residual tred panion article, "Are Evaluation of Cuesto Of Production Statistics" beginning on page xill compares control oil production volumes reported in EAR spe-



#### Detector of the

Petroleum Supply Summary ... Comparisons of Independent Statistics on Petroleum Supply ... An Evaluation of Crude OII Production Statistics .

## Summary Statistics—through

## October 1984 Crude Oil and Petroleum Products Overview.

Crude Oil Supply and Disposition.
Crude Oil and Petroleum Products Imports...
Finished Motor Gasoline Supply and Disposition.

## Sources

## Detailed Statistics—September 1984

- National Statistics
  1. U.S. Petroleum Balance...
  2. Supply and Disposition of Grude Oil and Petroleum Products....
  - Year-to-Date Supply and Disposition of Crude Oil and Petroleum Products.....
     Dally Average Supply and Disposition of
  - Crude Oil and Petroleum Products.
    5. Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products.

## Supply and Disposition of Crude Oil and Patro-

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#### Production of Crude Oli and Leese Condensete 11. Production by PAD District and State, July 1984

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Photo Credit -Oll and Gas Journal, page v (Courtesy of American Petroleum Institute Photo Library).

## Articles

Feature articles on energy-related subjects are frequently included in this publication. The following articles have appeared in previous issues of the PSM.

U.S. Petroleum Developments: 1981	Mar 1982
Timeliness and Accuracy of Selected Monthly Petroleum Supply Data	Apr 1982
Focus on Motor Gasoline Statistics	Apr 1982
Focus on Crude Oil Production Data	Apr 1982
Motor Gasoline Outlook: Summer 1982	May 1982
Gasoline Use in the United States	May 1982
The Impact of Changing Vehicle Characteristics and Use on Motor Gasoline Demand	May 1982
1982 EIA Petroloum Refinery Survey Results	Jun 1982
What is a Refinery?	Jun 1982
Mid-year Petroleum Supply Review	Jul 1982
Petroleum Imports and Exports	Aug 1982
Refinery Shutdowns During 1982	Sec 1982
Distillate Fuel Oil Outlook: Winter 1982-83	Sep 1982
Recent Trends in Fuel Oil	Sep 1982
Futures Trading on Heating Oil Markets	Sep 1982
Futures Treding on Heating Oil Markets . U.S. Crude Oil, Naturel Gas, and Natural Gas Liquids Reserves, 1981 Annual Report	Oct 1982
Trends in Domestic Crude Oil Production and Reserves.	Nov 1982
Major Energy Companies' Investment and Resource Development Patterns, 1974-80	Nov 1982
U.S. Petroleum Developments: 1982.	Jan 1983
Trends in Petroleum Products Consumption, 1971-1982.	Jan 1983
Refinery Shutdowns During 1982.	Feb 1983
U.S. Petroleum Imports and Exports	Feb 1983
Petroleum Supply Reporting System Overview	Mar 1983
Summer Gasoline Overview	May 1983
Principal Factors Influencing Motor Gasoline Demand	May 1983
U.S. Petroleum Refinery Trends and Outlook	Jun 1983
Mid-Year Petroleum Review	Jul 1983
Timeliness and Accuracy of Selected Petroleum Supply Data Series	Aug 1983
Distillate Fuel Oil Overview: Winter 1983-84	Sep 1983
Fuel Oil Trends.	Sep 1983
U.S. Crude Oli, Natural Gas, and Natural Gas Liquids Reserves	Sep 1983
LPG Market Trends	Nov 1983
National Petroleum Council Revises Minimum Operating Inventory Estimates	Dec(1) 1983
U.S. Petroleum Developments: 1983.	Dec(2) 1983
An Overview of Petroleum Transportation	Dec(3) 1983
EIA Revises Petroleum Supply Reporting System	Jan 1984
Trends in Petroleum Product Consumption	Jan 1984
Petroleum Consumption in the Industrial Sector.	Jan 1984 Jan 1984
Motor Gasoline Outlook for Summer 1984	Feb 1984
Motor Gasoline Outlook for Summer 1984	Feb 1984
Recent Motor Gasoline Trends  New Patterns Emerging in U.S. Petroleum Imports and Exports	
New Patterns Emerging in U.S. Petroleum Imports and Exports	Feb 1984
Refinery Capacity Trends and Outlook	Apr 1984
MId-Year Petroleum Review.	Jun 1984
Timeliness and Accuracy of Selected Petroleum Supply Data Series	Jun 1984
Winter 1984-1985 Distillate Fuel Oil Outlook	Jul 1984
Distillate Fuel Oil Overview	Jul 1984
Recent Trends in Primary Petroleum Storage Capacity	Aug 1984
U.S. Crude Oll, Natural Gas, and Natural Gas Liquids Reserves	Aug 1984





## Petroleum Supply Summary

		Octo	ber	c	umuletive Jan Through Octo	uary ber
Average Volume for Period (Million Sarrels Per Day)	1984	1983	% Change	1984	1983	% Change
Products Supplied	1004	1903	Change	1004	1900	Citatige
Motor Gasoline	6.7	6.6	1.5	6.7	6.6	1.4
Distillate Fuel Oil	2.6	2.6	0.4	2.8	2.6	6.8
Residual Fuel Oil	1.0	1.2	- 18.0	1.4	1.4	- 2.3
Other Products	5.1	4.5	12.6	4.8	4.4	8.7
Total	15.4	15.0	3 1	15.7	15.1	4.5
Crude inputs to Refineries	12.2	11.8	3.7	12.1	11.7	3.5
Production						
Crude Oli, Natural Gas						
Liquids, and Other	10.6	10.4	1.1	10.4	10.3	1.0
Imports						
Crude Oil <sup>a</sup>	3.6	3.2	10 8	3.2	3.1	4.2
SPR	0.1	0.2	- 31.7	0.2	0.2	- 23.8
Products	1.8	1.8	1.7	2.0	1.7	16.7
Total	5.6	5.3	6.0	5.4	5.0	7.1
Exports						
Crude OII	0.2	0.1	15.7	0.2	0.2	7.1
Products	0.5	0.4	15.1	0.5	0.6	- 13.3
Totel	0.7	0.6	15.3	0.7	8.0	- 8.9
Stock Withdrawal						
Crude Oil*	-0.2	- 0.1	to the	(8)	(6)	_
Products	- 0.5	-0.4		- 0.1	0.1	_
Stocks at End of Period (Million Barrels)						
Crude OII						
SPR	438	387	18.7			
Other	337	349	- 3.4			
Total	773	718	7.9			
Products						
Motor Gasoline <sup>a</sup>	230	227	1.3			
Distillate Fuel Oil	155	163	- 4.6			
Residual Fuel Oil	50	51	- 2.7			
Other Total	326 761	350 791	- 7.0			
10181	/61		- 3.8			
Total Crude Oil and Products	1,534	1,508	1.7			

<sup>1</sup> Includes alcohol and other hydrocarbon liquids.

Excludes Strategic Petroleum Reserve (SPR).

<sup>3</sup> Including blending components. (s) = Less than 0.05 million berrels per day.

NOTE: Percent changes are based on unrounded values. October 1984 data are estimates based on weekly data, except for exports, NGL production, other hyrocarbons, and slooblo which are September 1984 monthly values. Totals may not be equal to sum of components due to Independent rounding.

Source: Energy information Administration, Petroleum Supply Monthly, September 1984.



# Comparisons of Independent Statistics on Petroleum Supply

The Petroleum Supply Division of the Energy Information Administration (EM) operates a Petroleum Supply-Reporting System (PSRS) that Includes weekly, monthly, and annual surveys. Statistics based on weekly data and preliminary monthly data are published in the Petroleum Supply Monthly (PSM, Tinal statistics for each year are published in the Petroleum Supply Anmany (PSA). Comparisons between the PSM and PSA and (PSA). Comparisons between the PSM and PSA through 1983 nublished in the June 1984 PSM, help EA assess, maintain, and improve the quality of Its data.

To esten. The quality of EAA particulum supply years from the PASA, and its predocessor, the Pericewon form the PASA, and its predocessor, the Pericewon Statement, Annual you'll satisfate its min independent scene cover statistics for 1979 through 1982. Adjustsors cover statistics for 1970 through 1982. Adjustsors cover statistics for 1970 through 1982. Adjustsors for 1970 through 1982 throu

summed. These totals are converted from thousand to million barrels.

ment, there is no indication of inaccuracy.

From 1981 to 1983, many significant changes were made to the petroleum aupply survey forms, processing procedures, and publications. A description of these changes was published in the June 1984 PSM. The comperisons presented here indicate that these changes have maintained or improved the quality of the PSA statistics.

Stellatios on crude oil production are in close agreement for all 6-years. Agreement on crude oil Imports is agreeding to the companies of the companies actions gastelline supply statistics and companies actions improved dramatically in 1981, when a major change we made to the collection of motor gasciline data (See Note 12, page 90). The overall pattern is one of constavoted to the companies of the constant of the constant of the proteomer supply safets, anomalizes in the others.

## Crude Oil Production

Data on crude oil production developed for the PSA are based on data reported to EIA by State agencies and the U.S. Minerais Managament Service. These data were compared with data developed by four other

Table 1. Comparison of Estimates for Crude Oil (Including Lease Condensate) Production

	Reference Estimate	Comparative Estimates						
	EIA, Petroleum Supply Annual	American Petroleum Institute	Bureau of the Census	Oll & Gas Journal	EIA Reserves and Natural Gas Division			
	Volume	(Million Barre	ls*)					
1983. 1682. 1681. 1980. 1979.	3,171 3,157 3,129 3,146 3,121 paretive Estimate es	3,176 3,164 3,140 3,160 3,130	N/A N/A 3,112 3,137 3,047	3,161 3,166 3,135 3,147 3,168	3,177 3,107 3,110 3,134 3,102			
1983	paratire Estimate po	100.1	N/A	99.7	100.2			
1982		100.2	N/A	100.0	98.4			
1981	_	100.4	99.5	100.2	99.4			
1980	-	100.4	99.7	100 0	99.6			
1979	_	100.3	97.6	101.5	99.4			

sourges (Table 1).

NIA = Not evallable
"From Table 2 in EIA's *Petroleum Supply Annual*, 1981 through 1983 and Table 8 in EIA's *Petroleum Statement*, *Annual*, 1979 and

\*From ElA's U.S. Crude Oil, Natural Ges, and Natural Ges Liquids Reserves Annual Report, 1979 through 1983. Form ElA-23 is the source for crude oil production detain these publications.

Volumes are rounded to the nearest million barrels. One barrel equals 42 U.S. gallons.

Note: Geographic coverage is the 50 United States and the District of Columbia with adjacent areas of the Outer Continental

Shelf.
Source: Energy Information Administration, Petrolsum Supply Annual, DOBIEIA-0340, Petrolsum Statement, Annual,
DOBIEIA-0168, U.S. Crude Off, Natural Gas, and Natural Gas Liquids Reserves Annual Report, DOBIEIA-02616; Bureau of the Census,
Annual Survey of Olland Gas, Annaise Survey on Institute, Monthly Statistical Report Off and Gas Annual Survey of Journal.

<sup>&</sup>quot;From issues of the American Petroleum Institute's Monthly Statistical Report. Annual values were obtained by summing monthly values."
From Table 1 of the Bureau of the Ceneus' Annual Survey of Oil and Gas, 1979 through 1981. This survey was discontinued in

<sup>1982;

&</sup>quot;From Issues of the Oil and Gas Journal. This journal publishes weekly everages of crude oil production in thousand barrels per day. These severages are used to produce monthly totals as follows: First, each week's average is used as a daily production estimate for the days the wayk covers. Then, for each month, the production assimate for the days occurred the month are:

- EIA conducts an "Annual Survey of Oil and Gas Reserves," Form EIA-23. This survey is not part of the PSRS, however, the report covers production information for crude oil and lease condensate. The data from this survey have differed by less than 1 percent from the PSRS data in 4 of the 5 years studied.
- · Prior to 1982, the Industry Division of the Bureau of the Census conducted surveys that collected information on oil and gas field exploration, development, and production. The results of these surveys were published in the Current Industrial Report, Annual Survey of Oil and Gas, After its report on 1981 groduction, this survey was discontinued. In 1979 Census data differed from PSA data by 2.4 percent; the 1980 and 1981 data were within 0.5 percent.
- . The American Petroleum Institute (API) Monthly Statistical Report is used as one of the comparative sources for crude oil (and lesse condensate) production data. The API statistics compared here are based upon API monthly estimates. API data differed from PSA data by less than 0.5 percent in all 5 years studied.
- · Each week statistics on a number of petroleum-related subjects, are published in the Oil and Gas Journst. Included is a weekly production report based on the Journet's estimate of crude oil and lesse condensete production. From 1980 through 1983 the Oil and Ges Journal estimates were within 0.3 percent of the PSA data

#### Crude Oll Imports

The PSRS data on imports of crude oil are collected using Form EIA-814, Monthly Imports Report, These data have remained within about 2 percent of estimates by the Bureau of the Census and the API since 1979 (Table

- Data from the Census Bureau's U.S. Imports for Consumption and General Imports series are compiled utilizing U.S. Customs Service documents on imnorts into the United States and its territories. Because these data contain imports into U.S. territories and PSA statistics do not, territorial imports reported in the Census Bureau's U.S. Imports for Consumption and General Imports publication were extracted from the Census total. In 1983, Census data differed from PSA data by 1,3 percent.
- · Estimates of crude oil imports are published by the API In its Monthly Statistical Report, Because the API estimates do not include Imports for the Strategic Petroleum Reserve, Imports for the Stretegic Petroleum Reserve were added to the API estimates. There was a 1.4 nercent difference between API estimates and the PSA in 1983.

### Motor Gasoline Supplied

Beginning in 1981, the EIA made several changes to the motor gasoline portion of the PSRS. These changes in-

	Reference Estimate	Comparative Estimates				
	EIA, Petroleum Supply Annual*	American Petroleum Institute <sup>2</sup>	Census/ Customs Estimate			
	Volume (Million Ba	rrela")				
1983 1982 1981 1980 1979	1,215 1,273 1,606 1,926 2,380	1,232 1,275 1,617 1,917 2,346	1,199 1,300 1,635 1,942 2,415			
Compare	tive Estimate as a Percent of	the Reference Estimate				
1963	Ē	101 4 100 2 100.7 99 5 98 6	98.7 102.1 101.9 100.8 101.5			

'From Table 1 in EIA's Petroleum Supply Annual, 1981 through 1983 and Table 1 in EIA's Petroleum Statement, Annual, 1979 and 1980. This lable elso includes imports for the Strategic Petroleum Reserve (SPR) which were \$5.3 million in 1983, 50.2 million in 1982. 93.3 million in 1981, 16.1 million in 1980, and 24.4 million in 1979,

\*Estimate equals the sum of the annual estimate of imports derived from API's Monthly Statistical Report (which excludes imports for SPR), and the EIA estimates for imports for the SPR which are listed in footnote 1 above. Annual values were obtained by summing monthly values. \*Data on imports to Puerto Rico and the Virgin leands which are included in the source for these estimates have been eveluded

from these estimates in keeping with the geographic coverage of the table. Data are from the Bureau of the Cansus, Trade Information Branch, FT-246 Annual, U.S. Imports for Consumption and General Imports: TSUSA, and IA-245X Annual, U.S. Imports for Consumption and General imports: TSUSA, 1980 through 1983. Date for 1979 ere from computer printouts of the Bureau of the Census Report IM-245X dated December 19, 1980

"Volumes are rounded to the nearest million barrels. One barrel equals 42 U.S. oxilons.

Note: Geographic coverage is the 50 United States and the District of Columbia. Source: Effertry Information Administration, an Assessment of the Accuracy of Principal Data Series of the Energy Information

Administration, DEELA-0282, Petroleum Supply Annual, DDEELA-0340, Petroleum Statement, Annual, DOSELA-0198, Burnau of the Census, U.S. Imports for Consumption and General Imports: TSUSA, FT-248, IA-245, and IM-245X; American Petroleum Institute, Monthly Statistical Report.

Table 3. Comparison of Estimates for Motor Gasoline Supplied for Domestic Use

	Re	eference Estimate		comparative Estim	ietes
		EIA, Petroleum Supply Annual	EIA, Petroleum Marketing Division <sup>3</sup>	American Petroleum Institute <sup>2</sup>	Federal Highway Administration*
		Volume	(Milition Barrels*)		
1983	 	2,417	2.495	2,420	2,434
1982	 	2,387	2.451	2.376	2,413
1961		2,404	2.431	2,379	2,446
1980	 	2,408	2,573	2,523	2,486
1979	 1	2,568	2,749	2,579	2,549
	Compa	erative Estimate as a	Percent of the Refer	ence Estimate	
1983	 	_	103.2	100,1	100 7
1982	 	_	102 7	99.5	101 1
1961		-	101 1	99 0	101 7
1980 .	 		106.9	104.8	103.2

'Data from Table 2 in EIA's Petroleum Supply Annual, 1961 through 1963 and Table 2 in EIA's Petroleum Statement, Annual, 1979 and 1980.

"Data from the EIA-2s, "Prime Suppliers Report" (computer prostouts, 1978—1982, Prime supplier usually is the supplier or produced which makes the first sale of any product into the Stake, in 1853, the EIA-25 was incorporated into the EIA-793C, "Monthly port of Petroleum Products Sold into Stakes for Consumption."
"API publishes monthly settlines in this season that shares are monthly of the volume of motor passions effected from names stopped.

The initial published monthly estimate is derived from API sources, but in later API publications the estimates are revised using EIA data. The values shown in the table are equal to the sums of the initial published API monthly estimates of motor gasoline. "Data from Faderal Hichwary Administration, Hichwary Statistics. Tables ME-21A, and ME-24.

"Volumes are rounded to the neerest million barrels. One barrel equals 42 U.S. gallons.

Note: Geographic coverage is the 50 United States and the District of Columbia, accept where indicated.

Note: Geógraphic d'overgée is the 30 United Stated durit hui United or Columbia, lacode) when inclusted.

Source. Emply Information Administration, Petroleum Supply Annual, DOEELA-030, Petroleum Stetement, Annual, Source State (State State State

cluded expansion of the refinery survey to include nonrefinery bienders and the separation of blending components from finished motor gasoline as a reporting currently described refinery control in 1981, comperisons with three independent statistics show algoritical improvement in the PSRS motor solution of the comperison of the PSRS motor soluline data (Table 3). Prior to 1981, differences in estitives comparative salimates were within 0.2 persons.

- The EIA's Patroleum Marketing Division surveys "Patroleum Foods Sales Into States for Consumption," Form EIA-782C. EIA-782C satisfates may differ from the PSRS aupphy shallstill by the amount of two statistics closed to within 1.1 percent after the PSRS changes in 1981, but have offitted to a 2-percent difference in 1983. This may be due to double-counting by the EIA-782C survey or incomplete counting by the EIA-782C survey or incomplete coverage by the PSRS. The PSRS data or motor gazero of blending operations.
- The API's initial monthly estimates of motor gasoline supply are based on API sources. From 1981 through 1983 API estimates were within 1.0 percent of the PSA data. API surveys a sample of companies of each product for their Weekly Statistical Report. These data form the basis for the monthly estimates expecaring in API's Monthly Statistical Report.

The Federal Highway Administration publishes statistics on motor for lea use in their annual Highway Steptistics publication. The Federal Highway Administration's total genotic use data (with whation gasoline deducted) were compared with FSRS motor gasoline deducted) were compared with FSRS motor gasoline deducted were compared with FSRS motor gasoline deducted with FSRS motor gasoline deducted with FSRS motor gasoline deducted with FSRS motor gasoline series repaired with the series have climitation and system measures sales rather than supply. The differences between the series have climitation gasoline production of the series have climitation gasoline g

#### Distillate and Residual Fuel Oil Supplied

In 1981, EA Improved the procedures for calculating children and orderload select oil supply settation. Comparisons of the 1985 settation with the EA-1920. Comparisons of the 1985 settation with the EA-1920 ments in the classes of the statistics between other calculations are considered stock 1991 for both distillation late oil (including basic late) of the both distillation late oil (including basic late) of the 1991 for the 1991

Table 4. Comparison of Estimates for Distillate Fuel Oil (Including Kerosene) Supplied for Domestic Use

	1,028	Comparati	Comparative Estimates					
		EIA, Petroleum Marketing Division <sup>3</sup>	American Petroleum Institute <sup>3</sup>					
	Volume (Million I	Barrels*)						
1983	1.028	1.045	1,027					
1982	1.021	1.054	1,031					
1951	1.079	1,067	1,109					
1980	1,107	1,181	1,141					
1979	1,277	1,345	1,291					
Compa	rative Estimate as a Percent	of the Reference Estimate						
1983		101.7	99.9					
1982	-	103 2	101.0					
1961	-	98.9	102.8					
1980	-	106 7	193 1					

<sup>\*\*</sup>Disa from EIA's Patroleum Supply Annual, Table 2, 1981 through 1983 and Petroleum Statement, Annual, Table 2, 1979 and 1980 \*\*Disa from the EIA-28, "Prima Suppliers Report" (computer printouts), 1979-1982 Prima supplier usually is the supplier of prior ducar which makes the first sale of eny product into the State in 1983, the EIA-28 was incorporated into the EIA-28, "Monthly Re-

Petroleum Institute, Monthly Stellatical Report

Table 5. Comparison of Estimates for Posidual Eural Oil Supplied for Domestic Lies

	Reference Estimate	Comparation	e Estimates
	EIA, Petroleum Supply Annual	EIA, Petroleum Marketing Division <sup>2</sup>	American Petroleum Institute <sup>2</sup>
	Volume (Million Ban	rela*)	
983	519	510	525
982	627	584	622
951	762	723	780
980	918	815	937
979	1,032	791	1,044
Compa	rative Estimate as a Percent of t	he Reference Estimate	
983		98.3	101.2
982	_	93 1	99.2
981		949	102.4
980		88.8	102.1
979	-	76.6	101 2

<sup>\*\*</sup>Oata from Table 2 In EIA's Petroleum Supply Annual, 1981 through 1983 and Table 2 in EIA's Petroleum Stetement, Annual, 197 and 1980

part of Petrodeum Products 50xl into States for Consumption.

Alf publishes monthly estimates in thousand barries for per manth of the volume of distillate and keaseane dislivered from primary storage. The Initial published monthly astimates in derived from API sources, but In later API published the estimates are revised to the Initial published monthly astimate in derived from API sources, but In later API published the estimates are revised to the Initial Published Monthly and the Initial Published Initial P

API distillate totals (47 million barrets in 1982 and 46 million barrets in 1983).

'Volumes are rounded to the nearest million barrets. One barret equals 42 U.S. gallons.

Note: Geographic coverage is the 50 United States and the District of Columbia.

Sources: Energy Information Administration, Pertokeur Supply Annual, DOBETA-0340, Petrokeur Superior Copyright Annual, DOBETA-0340, Petrokeur Superior Copyright Annual, DOBETA-0340, Petrokeur Superior Copyright Annual, DOBETA-0340, Petrokeur Products Sold Into States for Consumption', American

<sup>&</sup>quot;Data from the EIA-25, "Prime Suppliers Report" (computer printcuts), 1979-1982. Prime supplier usually is the supplier or producer which makes the first sale of any product into the State In 1983, the EIA-25 was incorporated into the EIA-782C, "Monthly Report of Petrology Products State In Computing Line (Computing Line)."

API problems monthly estimates in thousand barrels per month of the volume of reciding to ill delivered from privary storage. The initial publishes monthly estimates in thousand barrels per monthly of the initial published and monthly estimate is derived from API sources, but in later API publications the resimates are revised using EIA data. The values shown in the table are equal to the sunts of the initial published API monthly estimates of residual oil.

"Volumes are concided to the nearest million barrels. One barrel speak 4-212. Solidors."

Note: Geographic coverage is the 50 United States and the District of Columbia.

Sources, Energy Information Administration, Petroleum Supply Annual, DOE/EIA-0340, Petroleum Statement, Annual, OOE/EIA-0340, Petroleum Statement, Annual, OOE/EIA-0340, Petroleum Statement, Annual, OOE/EIA-0340, Petroleum Producte Sold into States for Consumption's, American Petroleum Institute, Monthly States for Consumption's, American Petroleum Institute, Monthly States for Petroleum Producte Sold into States for Consumption's, American Petroleum Institute, Monthly States for Petroleum Producte Sold into States for Consumption's, American States for Petroleum Producte Sold into States for Consumption's, American States for Petroleum Producte Sold into States for Consumption's, American States for Petroleum Producte Sold into States for Consumption's, American States for Petroleum Producte Sold into States for Consumption's American States for Consumption Sta

## An Evaluation of Crude Oil Production Statistics

The Energy Information Administration (EIA) publishes domestic crude oil production data in the Petroleum Supply Monthly (PSM) and the Petroleum Supply Annuel (PSA), based on data compiled by State agencies and the U.S. Minerals Management Service' rather than on EIA survey data.º Although EIA surveys crude oil production annually to balance the accounting of petroleum reserves, this does not meet the need to track trends in petroleum supply.3 The accuracy of EIA's monthly reported crude oil production depends, therefore, upon the accuracy of State and Federal crude oil reporting systems. EIA recently reviewed the rules and processes governing compilation of crude oil and lease condensate production information by 11 States that account for more than 90 percent of domestic crude oil production.4 EIA also compared production volumes reported in EIA publications with those shown in the States' production reports to assess the accuracy of information flow between State regulatory agencies and EIA. This article presents the findings of that assessment.

#### State Reporting Systems

Systematic differences in definitions, rules, and regulations of the different regulatory agencies were found to have little impact on the reported data for most Status.

For example, some regulatory bodies require that crude oil and lease condensate be reported separately, white others require them reported combined. EIA deals with these forms of categorization by aggregating crude oil and lease condensate in the PSM and the PSA.

A second systematic difference occurs because some States require that respondents report the volumes of liquida extracted from the producing formation, while their States have respondents report only the net volume sold and emotion from the lease. The volume of bortoloum liquido used on the lease for both the producing the producing the cast I percent of extracted production, with the exception of California.

In California a thermal enhanced oil recovery technique maximizes the total oil recovered but creates a reporting dissimilarity with other States. This technique for the production of heavy oil uses a substantial portion of the extracted oil produced as fuel to generate steam for the recovery process. While exact data on all volumes used as fuel in the field are extremely difficult to obtain. available evidence suggests that the amount may be as much as 12 percent of extracted production in California. California producers report production as the volume extracted; therefore, it is important to remember that up to 12 percent of the production reported and published is crude oil that never leaves the lease and is unavailable for processing at refineries. During the next decade, as new petroleum recovery techniques spread, there may be an increasing gap between petroleum reported produced and petroleum available for refining-

## Evaluating the State-to-EIA Information Flow

The quality of EIA's published crude oil and lease condensate production data depends on the timeliness of State reporting and on how EIA utilizes the information Table I present feel through IRGS annual comparfable I present feel through IRGS annual comparfable I present feel through IRGS annual comparlation and published in the PSM, revend data published in the PSA, and final disa published an exlisted in the PSA, and final disa published and IRGS annual report. The table shows that about half in EIA's published annual fequers, were uncorporated in EIA's published annual fequers.

The verification between the sum of final data published by the 11 States for 1880 was less than 61 percent. Only Kanses the Man of Indicates published by the 11 States for 1880 was less than 61 percent. Only Kanses and a first ELR-State difference greater than 1 percent and a first ELR-State difference properties of the 1880 was summer following the aport year allowing them and the U. Shimesis Management Service time to compile the final crude oil figures used by 15 K. Thuu, ELR was been supported to the final crude oil figures used by 15 K. Thuu, ELR was been supported to the final State data sum. Beginning with the 1981 PSA, the popular controls States are now accorded unit to the profession of the support of the State data sum. Beginning with the 1981 PSA, the popular controls States are now accorded unit in the parties.

The 1881 schedule change for publication of the PSA makes the comparison of PSA data with filed State data particularly important. While not all revisions were received and proceed prior to buildants in the PSA (98), 1682, and 1683, ElsA comparison suggests that or 1981, 1682, and 1683, ElsA comparison suggests that control of the PSA (1981, 1982, 1983, 1984

Preliminary and final EIA data for aggregated U.S. production show slightly greater divergence from final State-published data from 1981 through 1983 than the:

The U.S. Minerals Management Service, formerly the U.S. Geological Survey, is the source of Federal offshore production information for Texas, Louisiana, and California. Federal offshore production is included in the production of the adjacent

\*The PSM publishes a preliminary national estimate of crude oil production prepared by the Dallas Field Office. This article focuses on the individual State figures.

"Ell'A Passerres and Natival Gis Division surveys natural gas and crude oil wile operations and publishes answard restrict and production figures in the U.S. Crude OV, Netural Clas, and Elltraine crude to product of the Common Common and and the Common Common Common Common Common Common Common Traine crude to production figures are used to manifolia and ance in searce accounting. These figures differ from those above for production in the PSA and other ELP publication. This States covered in the study see Astaska, California, This States covered in the study see Astaska, California, Co. Oklahoms, Tecas, and Wykening. Missessipp., I see Mex-

Table 1. Reported Annual Crude Oil Production (Including Lease Condensate) for Selected States (Thousand Barrels, except where noted)

	Initial EIA		Final State Annual	.,					
	Produc-	Produc-	Report	EIA Adju	etmonte	Deffe	rence	Diffe	rence
	tion	tion	Produc-	IPSM -	DOAN	(004 - E)	nal State)?	(PSM - FI	nal State
State	(PSM)	(PSA)	tion	Volume	Percent	Volume	Percent	Volume	Percer
	4.4.03			1980	1 0100111		1010011	10101110	
laska	591,684	591,646	591.641	38	0.0	5	0.0	43	0.0
California	356,644	358.923	357,109	- 279	-01	- 186	-01	- 485	- 0.1
Colorado	29,566	29.802	29.802	- 237	-08	0	0.0	- 237	-08
Sansas	60,152	60,151	58,541	1	0.0	1,610	2.8	1.811	28
.ouisiana	488,984	459,141	489,141	- 2.177	-05	0	0.0	- 2,177	-01
Aichigan	32,753	33,808	33,838	- 1.055	-31	0	0.0	- 1.055	- 3
dississippi	36,533	35,945	35,845	588	1.6	0	0.0	588	1.0
New Mexico	75,456	75,324	75,324	132	0.2	0	0.0	132	0.2
Oklahoma	151,960	150,140	150,140	1.820	1.2	0	0.0	1.820	1.2
fexas	975,239	977,435	977,438	- 2,197	-02	0	0.0	- 2.197	-07
Vyoming	129,309	125,352	125,362	2,947	23	0	0.0	2,847	23
11-State Sum	2.906.269	2.905,678	2.905.249	- 419	-00	1.429	0.0	1,010	0.0
J.S. Total	3,146,519	3,146,365	3,145,330	154	0.0	1,035	0.0	1,189	0.0
				1981					
Alaská	587,337	587,337	587,339	0	0.0	- 2	-00	- 2	-00
California	384,968	384,958	384,992	0	0.0	- 34	- 0.0	- 34	- 0.0
Colorado	30,151	30,303	30,409	- 152	-05	105	-03	~ 258	- 0 !
Kansas	65,810	65,810	65,810	0	0.0	0	0.0	0	ō.
Louisiana	447,158	449,315	451,216	- 2,159	-05	- 1,901	-04	- 4,060	- 09
Michigan	32,655	32,565	32,655	0	0.0	0	0.0	0	0.0
Mississippi	34,637	34,204	34,381	433	13	- 177	-05	256	01
New Maxico	71,568	71,568	72,155	0	0.0	- 587	~ 0.8	- 587	-08
Oktahoma	153,287	154,056	154,057	- 789	- 0.5	- 1	-00	~ 770	-0.5
Texas	945,132	945,132	944,584	0	0.0	448	0.0	448	0.0
Wyoming	130,583	130,563	122,174	. 0	0.0	8,389	6.9	8,389	8,8
11-State Sum U.S. Total	2.883,254	2,885,911	2,879.882	~ 2,647	-01	6,029	0.5	3,382	0 :
U.S. Total	3,122,410	3,128,624	3,123,229	-6,214	-02	5,395	0.2	-819	~ 0.0
Maska	618.742			1982					-01
Ataska California	401.572	618,910 401,572	618,914	- 188 0	- 0.0	~ 4	-00	~ 172 185	-04
			401,387		0.0	185	0.0		
Colorado Kansas	30,582 70,525	30,545 70,525	30,788	37	0.1	- 243	-08	- 206	- 0
	467,913	458.395	70,525 458,396	- 482	0.0	0	0.0	0	0.1
Louisiana Michigan	31.177	31,462	31,462	- 482 - 285	~01 ~09	-1	-00	483 285	-0
Masissioni	34,060	33,462	33,047	1,033	31	0	0.0	1.033	- 0 !
New Mexico	70.833	71.024	71,024	- 191	-03	0	0.0	- 191	-0.
Oklahoma	158.621	158,621	158.621	- 181	-03	0	00	- 191	-0.
Texas	923.888	925,296	918.987	- 1,428	-02	6,309	0.7	4.881	0
Wyoming	124,371	118,300	118,716	6,071	51	- 416	-04	5,655	48
11-State Sum	2,922,284	2,917,697	2.911.867	4,587	0.2	5.830	02	10.417	ő
U.S. Total	3,161,022	3,156,715	3,151,203	4.307	0.1	5,512	02	9,819	0.0
				1983					
Alaska	625,811	625,527	625,527	284	0.0	0	0.0	284	0.0
California.	404,688	404,688	405,317	0	0.0	- 629	-0.2	829	-0:
Colorado	29,004	29,050	29,026	46	-0.2	24	0.1	- 22	-01
Kansas	71,595	71,594	71,594	1	0.0	0	0.0	1	01
Louisiana	477,863	479,589	480,977	- 1,716	-04	- 1,408	-03	3,124	- 0.7
Michigan	31,386	31,738	32,205	- 350	~ 1.1	- 469	~ 1.5	819	-25
Mississippi	31,243	31,455	31,451	- 212	-07	4	0.0	- 208	-07
New Mexico	74,729	75,169	75,169	- 440	- 0.6	0	0.0	- 440	-06
Oklahoma	158,972	158,604	158,665	368	0.2	- 61	-00	307	0:
Texas	900,737	902,676	904,221	- 1,839	-02	- 1,545	-02	- 3,484	- 0.4
Wyoming	114,067	119,303	121,303	-4,235	- 3.6	~ 3,000	- 25	- 7,236	- 60
11-State Sum	2,920,085	2,928,371	2,935,455	-8,286	-03	- 7,084	-02	- 15,370	-05
U.S. Total	3,159,375	3,170,999	3,181,930	- 11,624	-04	- 10.931	-03	~ 22.555	-07

'The cumulative monthly State production from the Patroleum Supply Manthly, Table 11, or the Monthly Potroleum Statement, Table 17, minus the volume reported in the Patroleum Supply Annual, Table 9.

<sup>&</sup>quot;The Particum Supply Annual final production volume minus the production published in State annual reports. Percent difference is calculated by dividing the volumetric difference by the final State production.

<sup>&</sup>quot;The cumulative monthly State production published in the PetroReum Supply Monthly, Table 11, or the Monthly Petroleum Statement, Table 17, minus the production published in State annual reports. Percent difference is calculated by dirinding the volumetric difference by the final State production.

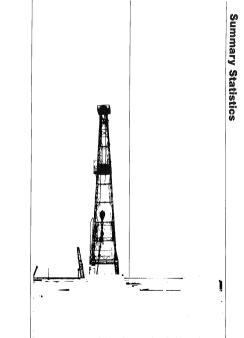
Sources Europy Information, Administration, Pentrokum Supply, Monthly, OD/ELI-0-000, Periobum Supply Annats, OD/ELI-0-000, Periobum Supply Annats,

did in 1990. Except for Wyoming and Michigan, less than 1 percent version exists between 1981 and 1980 of 31 initial EIA-final State distructions, only a cocceded 1 percent. In 1980, by the profit of the percent of t

mate and the final State crude oil production figure Wyoming accounted for the 0.2-percent difference between the final EIA sum of production and the final State sum in 1981.

In summary, EIA's review indicates that its present preliminary production data from State agencies and the U.S. Minerels Management Service, as published, closely approximate final data published by those agencies and can provide a reliable timely estimate of crude oil production at the State level.





Crude Oil<sup>1</sup> and Petroleum Products Overview

		F	leld Productio	n	Stock W	thdrawai?		Ending Stocks <sup>3</sup>
		Total Comestic <sup>4</sup>	Crude Oil	Natural Gas Plant Production	Crude OIF	Petroleum Products	Petroleum Products Supplied	Crude Olif and Petroleum Products
				Thousand Ba	rrefs per Oay			Million Barrels
973	Average	10.975	9,208	1,738	11	-146	17,308	1,008
974	Average	10,498	8,774	1.688	-62	-117	16,853	9 1.074
1975	Average	10.045	8,375	1,833	9 -17	9 -145	16,322	1,133
876	Average	9.774	8,132	1,603	-39	96	17,461	1,112
1977	Average	9,913	8,245	1,618	-179	-378	18,431	1,312
978	Average	10,320	8.707	1,567	-78	172	18.847	1,278
970	Average	10,179	8,552	1,584	-148	-25	18,513	1,341
980	Average	10,214	8,597	1,573	-98	-42	17,056	0 1,392
981	Average	10,230	8,572	1,609	4 -290	0 130	16,058	1,484
1982	January	10.128	8.509	1.578	-401	1.298	16,124	1,456
	February	10.312	8.702	1.563	~242	1,230	16.001	1.428
	March	10.284	8.667	1.572	121	1.047	15,560	1,392
	Agel	10,188	8,591	1.542	-37	1,583	16.046	1.346
	May	10,244	8.683	1,518	29	-66	14.847	1,347
	June	10,212	8,646	1.511	40	-489	14.998	1,360
	July	10,229	8,658	1.513	-147	-926	14.821	1,383
	August	10,215	8,634	1.524	-440	-44	14,839	1,408
	September	10.279	8,701	1,518	263	-447	15,022	1,414
	October	10,299	8,701	1,530	-548	-47	14,859	1,432
	Navorshor	10.358	8.697	1.609	-398	-361	15,009	1,485
	Decamber	10,276	8.598	1,628	128	688	15,487	E 1,430
	Average	10,252	8,649	1,550	-136	283	15,296	.,
1083	January	10.331	8.697	1,580	1 -498	a 772	14,722	1,452
	Februery	10.388	8.758	1.575	-320	1,113	14,782	1,430
	March	10.279	8,700	1.541	83	1,810	15,541	1,372
	April	10.322	8.776	1.506	-402	308	14,692	1.374
	May	10,190	8.631	1,493	-18	-602	14,505	1,394
	June	10,261	8.867	1.523	-122	-278	15,289	1,405
	July	10.228	8.636	1,539	233	-909	15.019	1.426
	August	10,284	8.678	1,562	-796	-271	15.480	1.460
	September	10 447	8.784	1.602	-239	-621	15.506	1.485
	October	10,434	8,771	1,604	-274	-442	14.862	1,508
	November	10,461	8,770	1,641	114	-182	15,500	1,510
	December	9,983	8.397	1,544	-329	2,133	16,726	1.454
	Average	10,259	0,688	1,559	-214	234	15,231	
1884	January	10,282	8,659	1,585	-342	1,085	16,726	1,430
	February	10,410	8,726	1,629	186	-1,353	15,389	1,464
	March	10,354	8,718	1,588	-5	643	16,017	1,444
	April	10,347	880,8	1,616	-865	-128	15,464	1,465
	May	10,415	8,752	1,610	-616	-422	15,566	1,497
	June	10,398	8,743	1,612	-95	-77	15,687	1,502
	July	10,487	8,789	1,649	-184	-184	15,547	1,514
	August	10,476	8.781	1,663	250	185	16,130	1,500
	September*	10,464	8,759	1,665	R 268	R -736	R 15,315	R 1,514
	Ortobar**	NA.	8,847	NA	-342	-485	15,419	1,534
		NA	8,744	NA	-147	-138	15,732	

encrease in stocks and a positive number indicates a decrease.

other hydrocarbons, and alcohol, in Reserve. troleum Reserve.

aspondents were added to surveys affecting stocks. See Explanatory Note 10. --- g pugo.

			Imports	r		Exports	Т	
		Total	Crude Oll <sup>6</sup>	Petroleum Products	Total	Crude Oil	Petroleum Products	Net <sup>7</sup> Imports
				Thous	and Barrels pe	Day		
1973	Average	6,256	3,244	3,012	231	2	229	6.025
1974	Average	6,112	3,477	2,635	221	3	218	5,892
1975	Average	6,856	4,105	1,951	269	6	204	5,846
1976	Average	7,313	5,287	2,026	223	8	215	7,099
1977	Average	8,807	6,615	2,193	243	50	193	8,565
1978	Average	8,363	6,356	2,088	362	158	204	8,062
1979	Average	8,456	6,519	1,937	472	235	237	7,984
1980	Average	6,909	5,263	1,646	544	287	258	6,365
1981	Average	5,996	4,396	1,599	595	228	367	5,481
1982	January	5,332	3,693	1,639	829	238	591	4,503
	February	4,807	2,990	1,817	804	304	499	4,003
	March	4,484	2,874	1,610	882	321	561	3,602
	April	4,378	2,849	1,529	786	174	611	3,593
	May	4.811	3,309	1.503	803	262	542	4,008
	Ame	5.327	3.638	1.491	703	24	609	4,624
	July	5,890	4.248	1,642	741	229	512	5,149
	August	5,244	3,651	1,392	A58	304	554	4,395
	September	5,414	3,636	1,778	797	184	606	4,624
	October	5,305	3,670	1,636	832	270	662	4,374
	November	5,744	3.852	1,882	786	262	524	4,958
	December	4,606	3,000	1,605	860	193	667	3,746
	Average	5,113	3,488	1,625	815	236	679	4,298
1983	January	4.438	2.964	1.474	973	117	856	3.464
	February	3,726	2,267	1,459	865	262	603	2,861
	March	3,690	2,290	1,400	801	174	627	2,889
	April	4,727	3,118	1,609	809	88	721	3,918
	May	5,089	3,360	1,729	848	280	56A	4,241
	June	5,226	3,577	1,749	774	144	630	4,552
	July	5,741	3,871	1,870	671	145	426	5,170
	August	5,159	4,227	1,933	663	172	491	5,496
	September	6,129	4,210	1,919	684	177	507	5,445
	October	5,258	3,446	1.812	576	140	436	4,682
	November	5,210	3,337	1,873	679	185	494	4,531
	December	5,833	3,337	1,820	639	95	544	4,394
	Average	5,051	3,329	1,722	739	164	575	4,312
	January	5,247	3,029	2,318	575	153	422	4,772
1004						185		
	February Merch	5,643	2,952	2,691	582 A40	236	397 605	5,061
		5,253	3,455	1,798	840 686	172	695 483	4,413
	April	5,318	3,417	1,902			483 548	
	May	5,916	3,927	1,989	765	219		5,150
	June	5,304	3,410	1,893	864	222	642	4,440
	July	5,387	3,646	1,741	536	108	429	4,851
	August	5,036	3,244	1,793	732	190	542	4,305
	September*	FI 5,173	R 3,294	R 1,889	684	162	502	4,510
	October**	5,572	3,731	1,842	NA	NA.	NA.	NA
	Average	5,395	3,414	1,981	NA.	NA	NA	NA

Footnotes continued

Footnows constitues

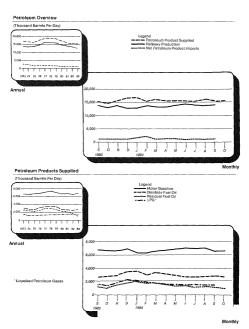
See Enjanatory Note 9 1

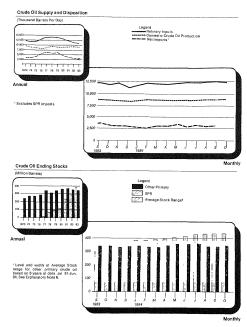
Italians denote estimates based upon prelixamery data

See Explanatory Note 8.

R = Revised data. NA = Not available

Note: Geographic coverage is the 50 United States and the District of Columbia. Total may not open sum of components due to independent rounding. Source: See the last page of this section.





		1			Sug	ply			
		Field Pro	duction		Importe		Stock Wit	hdrawal <sup>3</sup>	
		Total Domestic	Aleskan	Total	SPR4	Other	SPR*	Other	Unac- counted for Crud Oil
				1	housand Ba	rrels per Day	,		
1973	Average	9,208	198	3,244		3,244		11	
1974	Average	8,774	192	3,477		3,477		-62	-25
1975	Average	8.375	191	4,105		4,105		~17	17
1976	Average	8,132	173	5.287		5,287		-39	77
1977	Average	8,245	484	6,615	21	6,594	~20	-150	-1
1978	Average	8,707	1,229	6.356	162	8,195	-163	84	-5
1979	Average	8,552	1,401	8,519	67	6,452	-67	-81	-11
1980	Average	8,597	1,617	5.263	44	5,219	-45	-52	3
1981	Average	8,572	1,600	4,395	256	4,141	-336	+ 46	8
1982	January	8.509	1.705	3.603	170	3,523	-159	-242	10
	February	8.702	1.707	2,090	159	2.830	-213	-20	15
	March	8.667	1,698	2.874	185	2,689	-235	357	-
	Appl	8,591	1,691	2.849	190	2,659	-233	196	23
	May	8,683	1,707	3,309	204	3,105	-176	205	11
	Jane	8.646	1,665	3.896	105	3.732	-105	144	13
	July	8.658	1,710	4.248	97	4.150	-87	-50	-2
	August	8,634	1,697	3.851	208	3,643	-208	-232	18
	September	8,701	1,705	3,636	139	3.497	-143	406	-21
	October	8,701	1,706	3,670	216	3,454	-216	-332	24
	November	8,697	1,676	3,862	180	3.683	-179	-219	-12
	December	8,698	1,676	3,862	124	2,663	-179	252	-12
	Average	8,649	1,682	3,486	165	3,323	-174	38	7
1002	January	8.697	1.732	2.964	219	2.746	-219	6 -280	17
1200	February	8,758	1,717	2,267	197	2,070	-197	-123	26
	March	8,700	1,732	2,280	201	2,009	-184	267	3
	April	8,776	1,721	3.118	205	2.913	-197	-205	9
	May	8,631	1,662	3,360	288	3,071	-253	278	16
	June	8,667	1,687	3.577	180	3,387	-188	66	37
	July	8,636	1,715	3,671	274	3.597	-264	497	-16
	August	8,679	1,597	4.227	350	3,876	-358	-438	20
	September	8,784	1,738	4,210	309	3,901	-307	-130	-3
	October	8,771	1,733	3,445	202	3,244	-201	-73	-4
	November	8,770	1,720	3,337	171	3.166	-135	250	3
	December	8,397	1,720	3.213	193	3,020	-252	-78	11
	Average	8,688	1,714	3,329	234	3,096	-234	20	11
1084	January	8,650	1.741	3.029	200	2,829	-173	-169	45
	February	8,726	1.740	2,982	85	2,868	-96	282	48
	March	8,718	1,740	3,455	146	3,307	-147	145	6
	April	8.688	1,725	3,417	170	3,247	-170	-386	59
	May	8,752	1,793	3,527	245	3,581	-245	-371	46
	June	8,743	1,793	3,410	208	3,101	-209	214	49
	July	8,769	1,752	3,646	329	3,317	-328	144	2
	ANONS	8,781	1,725	3,244	183	3,064	-179	429	38
	September*	8,759	1,725	R 3.294	H 53	R 3,240	R -63	P 320	23-
	October**	8,847	1,728	3,731	138	3,593	-138	-204	NA NA
	Average	8,847	1,746	3,414	186	3,227	-184	-204	NA NA
	Average								

<sup>1</sup> Includes lease condensate

Stocks are totals as of end of period.
 A negative number indicates an increase in stocks and a positive number indicates a decrease.

Strategic Petroleum Rossevo
 Strategic Petroleum Rossevo
 Beginning in January 1983, crude oil used directly as fuel is shown as product supplied.
 Stocks of Alaksan curve oil in transit were included beginning in Jeniary 1981. Stock withdrawels are colculated using new basis stock levels. See Explanatory Notes 10 and 11. Footnotes continued on following page.

Crude Oil1 Supply and Disposition (continued)

		Supply		Dispo	eition		En	ding Stocke	ş2
		Crude Used Directly <sup>6</sup>	Crude Losses	Refinery Inpute	Exports	Products Supplied <sup>6</sup>	Total Crude Oil	SPR4	Other Primary
			Thous	and Barrels	er Day		м	illon Berreis	8
973	Average	-18	13	12,431	2	NA.	242		242
974	Average	-15	13	12,133	3	NA.	265		265
975	Average	-17	13	12,442	ē	NA.	271		27
976	Average	-18	15	13.416	ä	NA.	285		285
977	AppravA	-14	16	14,602	50	NA.	348	7	340
<b>\$78</b>	Average	-14	16	14,739	158	NΔ	376	67	301
879	Average	-13	16	14,648	235	NA.	430	91	331
980	Average	-13	15	13,481	287	NA.	5 466	108	6 354
981	Average	-58	5	12,470	228	NA	584	230	383
	January	-63	3	11,599	238	NA.	606	235	37
	February	-64	2	11,238	304	NA.	613	241	372
	March	-63	5	11,276	321	NA.	609	249	36
	April	-65	3	11,392	174	NA	610	256	355
	May	-62	3	11,806	262	NA.	609	261	348
	June	-60	7	12,494	84	NA.	608	264	34+
	July	-60	3	12,446	228	NA.	613	267	346
	August	-67	2	11,871	304	NA	626	274	350
	September	-56	4	12,146	184	NA	619	278	34
	October	-51	2	11,749	270	NA	636	285	351
	November	-51	1	11,724	262	NA	848	290	358
	December	-53	1	11.514	193	NA.	8 644	294	350
	Average	~59	3	11,774	236	NA			
	January	NA	2	11,143	117	71	660	301	364
	February	NA	3	10,633	262	71	669	306	36
	March	NA	2	10,859	174	70	867	312	355
	April	NA.	2	11,433	88	68	679	318	36
	May	NA.	1	11,800	280	63	679	327	353
	June	NA	(4)	12,284	144	64	683	332	35
	July	NA.	2	12,360	145	65	676	341	331
	August	NA.	1	12,152	172	64	700	352	349
	September	NA	- 1	12,482	177	66	708	361	347
	October	NA.	1	11,782	140	63	716	367	349
	November	NA.	2	12,004	186	64	713	371	34
	December	NA.	1	11,234	16	67	723	379	34
	Average	NA	2	11,685	184	66			
	January	NA	1	11,579	153	64	733	384	34
	February	NA	1	12,100	185	66	727	387	34
	Merch	NA.	2	11,936	236	62	728	392	331
	April	NA.	(P)	11,863	172	64	744	397	34
	May	NA	2	12,243	219	62	764	404	358
	June	NA.	2	12,263	222	61	766	414	350
	July	NA.	1	12,087	100	60	772	424	34
	August	NA.	1	12,403	190	63	764	428	33
	September*	NA	-2	R12,327	162	66	B 756	R 431	H 32
	October**	NA	NA	12,219	NA.	NA.	773	439	33.
	Average	NA	NA	12,105	MA	NΔ			

Factnates continued.

7

Fochicles contisued, Text See Explanatory Note 8.2 See Explanatory Note 8.2 See Explanatory Note 8.2 F. a. Reveald data. KA = Not available. (6) — Less than 500 berein per day. Note. Geographic converge is the See Usiliad States and the Detairt of Columbia. Total may not equal sum of components due to Independent rounding. Source: See the Ist page of this section.

	Imports from OPEC Sources <sup>1</sup>											
	Algeria	Libya	Soud! Arabio	United Arab Emirates	Indo- nesia	Iran	Nigerla	Vene-	Other OPEC <sup>2</sup>	Total OPEC	Total Arab OPEC	
					Thousand	Barrela	per Day	-				
973 Average	136	164	486	71	213	223	459	1,135	106	2,993	911	
974 Average	190	4	461	74	300	469	713	978	88	3,280	752	
975 Average	282	232	715	117	390	280	762	702	122	3,601	1,383	
676 Average	432	453	1,230	254	539	298	1,025	700	134	5,066	2,42	
1977 Average	559	723	1,380	335	541	535	1,143	890	287	6,193	3,18	
978 Average	649	654	1,144	385	573	555	919	645	226	5,751	2,96	
979 Average	626	65\$	1,356	281	420	384	1,080	690	212	5,637	3,051	
950 Average	488	554	1,261	172	348	9	857	481	130	4,300	2,55	
1981 Average	311	319	1,129	81	366	0	620	406	90	3,323	1,84	
882 January	254	161	877	111	289	0	663	376	128	2,859	1,400	
February	139	92	693	89	244	0	584	355	102	2,297	1,05	
March	91	37	555	155	200	0	522	399	91	2,051	869	
April	85	0	511	122	215	0	427	428	85	1,871	74	
May	179	0	601	116	236	0	222	422	54	1,830	99	
June	115	0	593	94	215	72	537	351	110	2,096	821	
July	159	0	660	108	327	69	910	358	95	2,685	96	
August	181	0	489	133	271	27	574	599	133	2,107	81	
September	179	0	432	57	191	21	477	518	69	1,943	67	
October	249	7	494	61	242	108	313	504	108	2,084	81	
November	247	14	488	47	283	34	479	528	115	2,235	79	
December	155	0	237	12	265	88	462	399	73	1,690	42	
Average	170	26	552	92	248	35	514	412	97	2,146	85	
1863 January	207	0	282	47	255	43	186	337	54	1,412	53	
February	115	0	214	9	217	0	92	393	28	1,058	33	
March	63	0	103	0	138	0	121	440	201	1,065	18	
Apni	227	0	162	(*)	210	0	186	523	125	1,432	38	
May	286	0	122	12	405	37	385	455	69	1,771	42 52	
June	300	0	188	40	466	38	467	335	138	1,973		
July	283	0	182	64	464	112	625	434	187	2,251	60	
August	378	ō	448	52	433	213	464	511	230	2,728	90	
September	423	0	587	21 16	501	86	324 307	432	221 169	2,595	1,08	
October	261	0	638		368	12	215	337 452	189	1,910	93	
November	184	0	545	56	302	21	329		163	1,910	82	
December Averege	144 240	0	569 337	45 30	294 318	48	329 302	415 422	144	1,862	63	
1684 January	242		463	114	278	0	243	547	51	1.039	82	
February	348	ő	324	33	267	ő	244	481	174	1,871	72	
March	283	0	307	112	284	67	260	354	127	1,792	71	
April	280	ő	320	95	221	0	288	581	158	1,944	73-	
May	456	ŏ	328	240	450	ŏ	289	621	242	2,657	1.13	
June	284	ŏ	411	46	415	ő	243	574	139	2,112	80	
July	332	ő	429	112	384	ă	204	535	242	2,237	94	
August	404	ő	438	82	281	ő	114	487	216	2,021	99	
September	343	ő	159	113	333	17	160	689	147	1.961	67	
Average	330	o o	354	106	327	- 1/9	227	541	166	2.061	84	

<sup>1</sup> Excludes petroleum imported into the United States indirectly from OPEC countries,

Exclusive periodism imported into the United States individual from CPEC countries, primarily from Cambbean and Wise European areas, as referred periodism products which were referred from roude oil produced in CPEC countries.
I includes Ecology, Gipbon, Neb, Kewst, and Oblat.
3 includes Alprina, Libys, Sesual Arabba, United Arab Emirates, Iraq, Kuwart, and Oblat Postrotides construction on Infolking production.

Crude Oil and Petroleum Product Imports ( continued )

					imports fro	m Non-OPE	C Sources	4			
	Baha- mas	Canada	Mexico	Nether- lands Antiles	Trinidad and Tebago	United Kingdom	Puerto Rico	Virgin Islands	Other Non OPEC	Total Non OPEC	Total Imports
					Thouse	nd Barrels	per Day			-	
Average	174	1,326	16	585	255	15	89	329	465	3,263	6,259
				511	251						6,112
				332	242						6,056
			87	275	274						7,313
											8,807
				229	253						8,363
											8,456
Average											6,909
Average	74	447	522	107	133	375	62	327	534	2,672	5,996
lanuary	58	513	425	179	106	346	62	334	452	2,474	5,332
											4,807
										2,433	4,484
	82							285	690		4,387
										2,981	4,811
								355		3,231	5,327
										3,204	5,890
Vugust										3,137	5,244
September										3,472	5,414
							52	262			5,306
										3,508	5,744
											4,606
Average	65	482	695	175	112	456	60	316	627	2,968	5,113
lanuary	68	534	849	228	73	314	40	299	821	3,026	4,438
			722						558	2,658	3,726
										2,624	3,890
				216		421	20	183	759	3,296	4,727
	135			153				235		3,318	5,089
	137			173	120			565	757	3,353	5,326
										3,490	5,741
				197			40	313		3,431	6,159
											5,258
		532	771				40	357		3,131	5,210
			720				30	427			5,033
Average	125	647	826	189	96	382	40	282	701	3,188	5,051
ionumu.	162	424	TOE	977	64	999	69	950	779	2.400	5,347
charan				288							5.643
										3.460	5,253
			859							2 3 7 5	5,319
			875							2250	5,916
			202	391			50				5,304
			736	634							5,38
			£30		120	302		292			5,038
			262							0,010	5,173
			700	133							6,375
Averege	90	616	727	200	89	378	41	298	887	3,313	- 6
	Average Averag	mag	mel Console  Areage   174   1,326  Areage   175   1,326  Areage   177   1,326  Areage	max   Canada   Mexico	Barbar   Console   Western   Weste	Ballet	Bahe	Bable	Parks	Delian	Ballet

Avoinge

Footnotes continued

includes petroleum imported into the United States indirectly from OPEC countries, polimarily from Carbbean and West European areas, as refined petroleum products

which were refined from crude oil produced in OPEC countries.

<sup>(%) =</sup> Loss finan 500 barrels per day.

Note: Beginning in Cotober 1977, Sizztegic Petroleum Reservo Imports are included.

Total may not equal sum of components due to independent rounding.

Geographic coverage: The 50 United States and the District of Columbia.

Source: See the last page of this section.

## Motor Gasoline Supply and Disposition (Thousand Barrels Per Day) Legend Product Supplied Finished Gasoline Production --- Finished Gasoline Imports 1021 TA 25 76 27 TG 26 50 61 82 65 Annual 8,000 -6.000 4 000 -2,000 --1983 Monthly Motor Gasoline Ending Stocks (Million Barrels) Legend Total Motor Gasoline Finished Motor Gasoline Average Stock Range? Annual Includes motor gasoline blending components and finished motor gasoline. Level and width of Average Stock Range for total motor gesofine based on 3 years of data. Jul. 81-Jun. 84 See Explanatory Note 6. 1983 1084 Monthly

			Supply		L	Disp	osition		Ending	Stocks!
		Total		Stock		P	roducts Suppli	ed	Total	Finished
		Produc- tion	Imports <sup>2</sup>	With- drawal <sup>2</sup> 3	Exports	Total	Unleaded*	Unleased	Motor Gasoline <sup>5</sup>	Motor Gasoline
				Thousand Ba	rrels per Day			Percent of Total	Million	Barrels
1973	Average	8,535	134	9	4	6.674	NA.	NA.	209	
1874	Average	6,360	204	-24	2	6,537	NA.	NA.	9 218	
1975	Average	6,520	184	f =28	2	6,875	NA.	NA.	235	
1976	Average	6,841	131	10	3	6,978	NA.	NA.	231	
1977	Average	7.033	217	-72	ž	7,177	1.876	27.5	258	
1978	Average	7,169	190	54	1	7,412	2.521	34.0	238	
1976	Average	6,852	181	2		7,034	2,798	39.8	237	
1880	Average	6,506	140	-66	1	6.579	3,067	46.6	9 261	
1981	Average Average <sup>7</sup>	6,500 8,405	157	-00 F 28	2	6,576	3,067	49.6	253	
1881	Average,	0,400	107	- 20	2	0,556	3,264	49.5	253	
1982	January	6,167	128	-316	18	5,961	3,067	515	261	213
	February	5,899	133	172	8	6,196	3,210	51.8	257	508
	March	5,994	183	334	44	6,466	3,358	51.9	247	198
	April	6,095	185	650	13	6,897	3,495	50.7	221	179
	May	6,319	182	177	23	6,655	3,415	513	214	173
	June	6,754	230	-134	14	6,835	3,565	522	219	177
	July	6,768	225	-176	24	6,790	3,577	527	226	183
	August	6,419	291	-81	16	5,614	3,526	53.3	227	185
	September	6,527	223	-168	22	6,531	3,404	52.1	234	191
	October	6,262	185	-42	15	5,391	3,351	52.4	234	192
	November	6.273	211	101	11	6.574	3,451	52.5	230	189
	December	6.542	176	-165	7	6,549	3,485	53.2	¢ 235	s 194
	Average	5,338	197	25	20	6,539	3,406	52,1		
1983	Januery	6,065	153	6 -187	0	6.051	3,364	55.8	250	207
	February	5,848	128	24	ō	6,000	3,264	54.4	250	207
	March	5,906	196	768	23	6,836	3,622	53.0	223	183
	April	6,201	255	-3	1	6.452	3.492	54.1	221	183
	May	6,397	305	-63	1	6,617	3,558	53.8	223	185
	June	6,655	277	84	22	6.994	3.792	54.2	223	183
	July	6,707	302	-225	18	5.765	3,748	55.4	231	190
	August	6,537	250	161	13	6.936	3,836	55.3	226	185
	September	6,611	279	-149	14	6.727	3,591	54.9	228	189
	October	6.188	330	72	2	5.588	3.711	56.3	227	187
	November	5,634	269	-295	2	6,603	3,692	56.9	236	196
	December	6.308	224	339	25	6.846	3,986	57.9	222	186
	Average	8,340	247	45	10	6,622	3,647	56.1		
1024	January	6.037	233	-1	1	6.268	3.606	57.5	225	186
1494	February	6,320	203	-384	2	6,200	3,665	57.5	237	197
	March	6.375	343	-384	ģ	6.512	3,565	57.5	243	203
		6,375	343	-197 -153	3	6,682	3,747	57.7	243	203
	April		308	-103 -106		6,682	3,854	58.1	253	211
	May	6,650	329 272	-106 217	17	7.092	4,210	58.1 58.4	245	204
	June	6,620		217 130	17	7,092 6,849	4,210		245	500
	July	6,481	247					59.8		
	August	6,436	243	437	1	7,114	4,263	59.8	225	187
	September*	R 6,545	R 333	9-263	. 2	R 6,614	3,982	60.2	R 235	R 194
	October**	6,414	325	-47	NA.	6,688	NA.	NA	230	192

-34 NA 6,896 NA NA

Average

<sup>6.440</sup> 1 Stocks are totals as of end of period

<sup>293</sup> <sup>2</sup> Beginning in 1981, excludes blending components. A negative number indicates an increase in stocks and a positive number indicates a decrease.

Includes caschol. includes motor gasoline blending components.

In January 1975, 1981, and 1983, numerous respondents were added to surveys affecting stocks. reported and stock withdrawal calculations. See Explanatory Note 10.

<sup>7</sup> Beginning in Jenuary 1981, survey forms were modified. See Explanatory Note 12. See Explanatory Note 9.3.

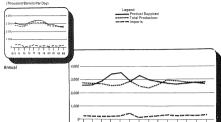
Italics denote estimates besed upon prelimitary data. See Explanatory Note 6.

R = Revised date. NA = Not available. (s) = Less then 500 barrels per day. Note: Geographic coverage is the 50 United States and the District of Columbia.

Total may not equal aum of components due to independent rounding. Source: See the last page of this section.

## Distillate Fuel Oil Supply and Disposition

Distinct Con on eappry and a rep

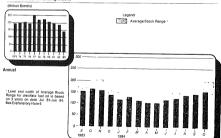


1984

1983

Distillate Fuel Oil Ending Stocks

Monthly



	1	Sı	pply Disposition		osition	Ending Stocks <sup>1</sup>		
	Total Production	Imports	Stock Withdrawel <sup>2</sup>	Crude Used Directly <sup>3</sup>	Exports	Products Supplied <sup>3</sup>		
			Thousand 8ar	rels per Day		. A	Million Barrels	
Average	2,822	392	-115	2	9	3,092	196	
				2	2	2,948	1 200	
			4 40	2	1	2.851	209	
						3,133	186	
						3,352	250	
						3,432	216	
					3	3,311	229	
						2,866	4 205	
Average <sup>s</sup>	2,613	173	4 98	10	5	2,829	192	
January	2,606	97	876	10	90	3,484	164	
							147	
							126	
							108	
					75		114	
							124	
							148	
							159	
							161	
							170	
							186	
							4 178	
Average	2,606	93	38	10	74	2,671		
January	2,321	60	4 590	NA	173	2,797	168	
							148	
							118	
							103	
							109	
							114	
							131	
							142	
							154	
							163	
							161	
Average	2,522	174	676 124	NA NA	54 64	3,365 2,696	140	
laman.	0.000	070	676	ALA.	40	0.400	119	
							132	
			202				110	
							98	
							113	
							125	
							134	
						2,075	134 R 143	
							H 143	
							188	
Average	2,665	267	-90	NA	NA.	2,033		
	Average	Profection  Average  2 222  Average  2 242  Average  2 244  Average  2 244  2 2	Total Production Imports  Average 2, 2, 22 382  Average 2, 2, 22 382  Average 3, 2, 2, 2, 2, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,	Totals	Total   Import   Shock   Contact   Contact	Profest	Profection	

<sup>1</sup> Stocks are totals as of end of period

<sup>2.</sup> A negative number indicates an incresse in slocks and a positive number indicates a decrease
3. Beginning in January 1983, product supplied for distillate fuel of does not include crude of

used directly. See Explanatory Note 4

In January 1975, 1981, and 1983, numerous respondents were added to surveys affecting stocks.

reported and stock withdrawal calculations. See Explanatory Note 10.

Beginning in January 1981, survey forms were modified. See Explanatory Note 12.

See Explanatory Note 9.4.

Bifsc denote estimates based upon prelimnery date. See Explanatory Note 8.
 R = Revised data, NA = Not available, (f) = Loss than 500 barrolis per day.
 Note: Geographic corverage is the 50 United States and the Detroit of Columbia.

Total may not equal sum of components due to independent rounding. Source. See the last page of this section

## Residual Fuel Oil Supply and Disposition (Thousand Barrels Per Davi Legend Product Supplied Total Production er en en Importe 4.000 Annual 2.000-----\*\*\*\*\*\* 1983 1984 Monthly Residual Fuel Oil Ending Stocks (Million Barrels) Legend Average Stock Range 1 1973 74 75 76 77 78 79 60 61 82 63 100 Annuai 78-

Level and width of Average Stock Range for residual fuel oil based on 3 years of data, Jul. 81 Jun. 84. See Expianatory Note 6.



			Su	ipply		Diep	nolitie	Ending Stocks <sup>1</sup>
		Total Produc- tion	Importe	Stock Withdrawai <sup>2</sup>	Grude Used Directly <sup>2</sup>	Exports	Products Supplied <sup>9</sup>	
				Thousend Bar	vols per Day			Milion Barrols
1873	Average	971	1,853	5	17	23	2,822	53
1974	Average	1,070	1,587	-17	13	14	2,639	4 80
1975	Average	1,235	1,223	4 2	15	15	2,462	74
1976	Average	1,377	1,413	5	17	12	2,801	72
1877	Average	1,754	1,350	-48	13	6	3,071	80
1978	Average	1,667	1,355	-1	13	13	3,023	80
1979	Average	1,887	1,151	-15	12		2,828	46
1980	Average	1,580	930	10	12	33	2,528	4 92
1981	Average <sup>5</sup>	1,321	800	4 37	48	118	2,088	78
1982	January	1,235	831	301	63	235	2,165	66
	February	1,186	966	363	53	213	2,344	58
	March	1,123	912	12	63	197	1,903	58
	April	1,166	788	150	52	234	1,923	64
	May	1,128	742	-172	52	191	1,560	58
	June	1,074	652	-67	50	217	1,501	81
	July	1,028	657	56	49	239	1,550	50
	August	985	551	203	47	235	1,631	63
	September	1,008	872	-308	44	148	1,470	62
	October	955	783	-57	43	234	1,400	64
	November	080	837	-04	43	182	1,591	66
	December	059	747	6	43	186	1,528	4 66
	Average	1,070	778	32	48	209	1,716	
1883	Jenuary	972	691	4 258	NA.	294	1,626	61
	February	857	647	257	NA	101	1,570	60
	March	836	688	227	NA.	169	1,579	46
	April	941	750	-10	NA	310	1,374	47
	Mey	936	738	-141	NA.	190	1,342	51
	June	828	677	36	NA	218	1,323	50
	July	789	684	-64	NA	60	1,298	52
	August	710	739	115	NA	165	1,400	48
	September	826	706	-47	NA	134	1,351	50
	October	807	638	-60	NA.	153	1,243	51
	November	845	780	-07	NA	167	1,342	54
	December	897	649	182	NA	141	1,587	48
	Average	862	610	55	NA	185	1,421	
	January	963	1,081	119	NA	151	1,981	45
	February	1,003	1,107	-420	NA	87	1,602	58
	Merch	887	633	321	NA	204	1,637	48
	April	840	637	0	NA	130	1,357	47
	May	829	554	35	NA.	200	1,218	46
	June	841	676	-17	NA	176	1,324	47
	July	792	596	-77	NA	90	1,213	49
	August	808	572	146	NA	260	1,266	45
	September*	FI 861	FI 596	R -77	NA	214	R1,165	R47
	October**	863	833	-174	NA	NA	1,019	50
	Average	857	684	-11	NA	NA.	1,378	

<sup>1</sup> Stocks are totals as of end of pariod

Source: See the last page of this section.

A negative number inclosites an incresse in stocks and a positive number indicates a decrease.

Beginning in January 1983, product supplied for recidual fuel of closs not include crude

Beginning in January 1993, product supplied for residual rule of coss not include crude oil used directly. See Explanatory Note 4.
 In Jenuary 1975, 1881, end 1983, numerous respondents were added to surveys affecting stocks.

reported and stock withdread colculations. Soc Explanatory Note 10.

Beginning in January 1981, survey forms were modified. See Explanatory Note 12.

See Explanatory Note 9.4.

Italize denote estimates based upon preliminary data. See Explanatory Note 8.

El Revised data. NA — Not available. (a) — Less then 500 barrels par day.

Note: Geographic coverage is the 50 United States and the District of Columbia. Total may not aqual sum of components due to independent rounding.

## Liquefied Petroleum Gases Supply and Disposition

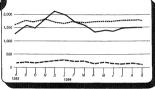
(Thousand Barrels Per Day)



Legend
Product Supplied
Total Production

\_\_\_\_

#### Annual



Liquefied Petroleum Gases Ending Stocks

Monthly

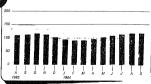


Legend
Average Slock Rangel

## Annual

(Million Barrels)

Level and width of Average Stock Ranges for liqueffed petroleum gas based on 3 years of data Jul 81-Jun, 84. See Explanatory Note 6.



#### Liquefied Petroleum Gases Supply and Disposition

		1	Supply			Disposition		Ending Stocke <sup>2</sup>
		Total Production	Imports	Stock Withdraws/2	Refinery Inputs	Exporta	Products Supplied	
				Thousand Ba	rreis per Day			Million Barrals
1973	Average	1,600	132	-35	220	27	1,449	99
1874	Averaga	1,565	123	-38	220	25	1,406	4 113
1976	Avarage	1,527	112	4 -35	246	26	1,333	125
1976	Avarage	1,535	130	24	260	25	1,404	116
1977	Avarage	1,566	161	-55	233	18	1,422	136
1978	Average	1,537	123	12	239	20	1,413	132
1979	Averaga	1,556	217	70	235	15	1,592	111
1980	Average	1,535	216	-27	233	21	1,469	4 120
1981	Average	1,571	244	4 -18	289	42	1,466	135
1982	January	1,565	314	443	391	67	1,863	121
	Fabruary	1,468	291	243	327	51	1,621	114
	March	1,544	223	211	289	74	1,615	108
	April	1,506	188	98	257	77	1,458	105
	May	1,565	186	-71	234	43	1,403	107
	Juna	1,515	192	-86	262	106	1,254	109
	July	1,476	227	-13	253	37	1,399	110
	August	1,511	125	-45	254	61	1,278	111
	Saptamber	1,538	247	37	274	85	1,463	110
	October	1,517	194	97	306	81	1,421	107
	November	1,542	267	175	363	37	1,583	102
	December	1,580	258	256	395	56	1,642	4 94
	Avarage	1,528	226	111	300	65	1,499	
1883	January	1,611	240	4 520	313	110	1,939	86
	Fabruary	1,600	305	128	244	76	1,713	82
	March	1,543	166	-9	197	127	1,377	82
	April	1,607	124	-156	198	116	1,260	87
	May	1,813	167	-225	207	34	1,263	94
	Juna	1.664	172	-334	203	59	1,241	104
	July	1.656	191	-221	217	55	1,354	111
	August	1,586	160	-199	229	29	1,289	117
	Saptembar	1,706	178	-30	236	88	1,531	118
	Optober	1.688	160	-81	268	32	1,467	120
	November	1.785	180	70	362	33	1,640	118
	Documber	1,645	247	575	363	66	2,038	4 101
	Average	1,842	190	4	253	73	1,599	
1884	January	1.610	269	4 470	333	23	1,993	93
	Eabruary	1,690	237	146	323	41	1,708	89
	March	1,685	241	12	289	68	1,581	89
	April	1.711	155	-170	253	54	1,389	94
	May	1.709	211	-221	244	42	1,412	101
	June	1,714	158	-189	237	53	1,394	106
	July	1.750	139	-138	232	43	1,469	111
	August	1,744	154	-132	241	34	1,491	115
	September*	1.704	128	-24	283	26	1,499	115
	Average	1,702	187	-27	270	43	1,549	

<sup>1</sup> Includes alhane, propone, normal butane, and isobutane.

Baginning in January 1984, unfractionalist stream is reported by individual product.

Stocks are totals as of and of period.

A negative number indicates an increase in stocks and a positive number indicates a discrease.
 In January 1975, 1981, 1983, and 1984, a naw stock basis was established.

affecting stocks raported and stock withdrawal calculations. See Explanatory Note 10. See Explanatory Note 9.5.

Note: Geographic coverage is the 50 United States and the District of Columbia. Total may not equal sum of components due to independent rounding.

Source: See the last page of this section.

# Other Petroleum Products¹ Supply and Disposition

			Supply			Disposition		Ending Stocks <sup>2</sup>
		Total Production	Imports	Stock Withdrawal <sup>3</sup>	Retinery	Exports	Products Supplied	
				Thousand Ba	rrels per Day			Million Barrol
973	Average	3,693	Ana	-9	750	166	3,270	208
974	Average	3,558	432	-28	665	174	3,123	4 218
975	Average	3,424	277	4-2	537	180	3,002	219
976	Average	3,643	206	-5	524	175	3,145	220
977	Average	3,912	205	-27	514	165	3,410	230
978	Average	4,046	168	14	492	167	3,568	225
979	Average	4,153	195	-37	352	209	3,749	238
980	Average	3,956	210	-23	311	198	3,634	4 247
981	Average	3,739	226	4 46	723	199	3,088	282
	January	3,171	269	-7	624	180	2,631	282
	February	3,403	305	-153	663	138	2,755	287
	March	3,468	243	-191	725	161	2,631	293
	April	3,408	309	73	796	204	2,790	290
	May	3,317	318	184	824	210	2,785	285
	June	3,547	315	123	812	218	2,954	281
	July	3,680	408	-1	855	187	3,023	281
	August	3,583	346	217	743	202	3,201	274
	September	3,533	375	165	749	213	3,051	271
	October	3,529	383	244	915	266	2,976	264
	November	3,498	423	-28	837	269	2,786	264
	December	3,324	313	366	886	275	2,842	4 253
	Average	3,453	334	80	787	211	2,869	
983	January	3,194	322	4 -419	588	271	2,239	271
	February	3,229	321	12	673	232	2,658	270
	March	3,381	319	-147	572	249	2,732	275
	April	3,299	404	-24	592	247	2,840	276
	May	3,405	374	35	705	242	2,866	275
	June	3,510	444	96	717	292	3,144	272
	July	3,636	425	148	735	209	3,265	267
	August	3,695	482	30	958	242	3,297	266
	September	3,792	497	-8	768	236	3,255	266
	October	3,578	424	-107	711	195	2,990	270
	November	3,568	441	95	912	238	2,957	267
	December Average	3,123 3,469	479 411	361 6	883 712	257 242	2,823	4 258
	January		488	4 -177	561	207	2.831	253
<b>684</b>		3,391	486 586		751	207	2,831	
	February March	3,582	586 468	-256 -218	761 530	225 258	2,935	261 268
		3,510	468 582	-216 -207	627	268	3,063	258
	April	3,584			775	268 257	3,175	
	May	3,663	642	-118				277
	June	3,863	521 567	404 278	1,229	343 238	3,213 3,438	265
	July	3,866						257
	August	3,855	561	24	648	172	3,821	256
	Saptember*	3,768	539	-51	712	238	3,308	258
	Average	3,678	5.50	~35	762	245	3,185	

<sup>&</sup>lt;sup>1</sup> Includes pentanes plus, other hydrocarbons and alcohol, untrushed oils, gasoline blending components and all anished petrolism products except trilished motor casoline, detiliate fuel

oil, residual fuel oil, and liquisted petroleum gases.

2 Stocks ere totals as of end of period.

A negative number incicates an increase in stocks and a positive number indicates a decrease in January 1975, 1981, 1983, and 1984, a new stock basis was asiablished.

affecting stocks reported and stock withdrawal celoulations. See Explanatory Note 10
See Explanatory Note 9 6

Note: Geographic coverage is the EO United States and the District of Columbia. Total may not equal sum of components size to independent rounding. Scorol: See the last page of this section.

## Sources

- 1973 through 1978: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys, Petroleum Statement, Annual and PAD Districts Supply/Domand. Annual.
- 1977 through 1980: Energy Information Administration (EIA), Energy Data Reports, Patroleum Statement, Annual and PAD Districts Supply/Demand, Annual, and unleaded geachine data from Menthly Petroleum Statistics Report.
- 3. January 1981 through December 1983: EIA, Petroleum Supply Annual,
- January 1984 through September 1984. Detailed statistics in appropriate issues of the Petroleum Supply Monthly. (See Explanatory Notes 9.1 through 9.6).
- October 1984: Estimates based on EIA weekly data (except domestic crude oil production) (see Explanatory Note 1.1).
- January 1984 through October 1984: Domestic crude oil production estimate based on historical statistics from State Conservation Agencies and the U.S. Geological Survey, (See Explanatory Note 3).



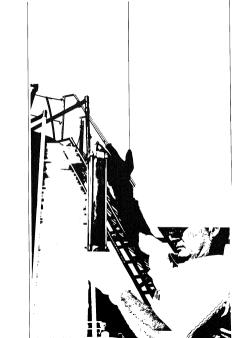




Table 1. U.S. Petroleum Belenog, September 1984

	Corner	Worth	Year-l	n cirta
	Thousand Bones	Thousand Borrels per Day	Thousand Banels	Thousand Burrels prt Day
Crude GII (Including Losso Condensate)				
(i) Alaska	751250	1.725	E-479,022	1.790
(1) Lever 46 States (2) Lever 46 States (3) Total U.S Not Imports	E 211 017		F 1.912.230	6.983
d) Total US	E 202.767	8,719	E 2,382,772	8,733
Net imports				
(4) Imports (Gross Excluding SPR)	97.268	3.240	#22 970	2.188
(6) SPR Imports	1,599	53		
			32,584	102
(7) Imports (Net Including SPF)	4,846	162	50,005	163
(7) Imports (Net Including SPR)	93,961	3,132	675,489	3,195
Other Sources				
(8) SPR Withdrawal (+) or Addison (-)	- 1,892	- 53	- 51,990	- 190
(3) Other Stock Withdrawel (+) or Addition (-)	8,588	320	17,846	65
(3) Other Stock Withdrawel (+) or Addition (-)	-1.920	- 54	- 17,554	
(19) Unaccounted for 1 (12) Total Other Bources (13) Clube Hourt to References (13) Clube Hourt to References		234	96.537	352
	12,082	436	44.846	104
	366,810		2.312.109	12,092
(12) = (6 + (7) + (12)				
Natural Gas Plant Liquido INGPL:				
(14) Field Production	49.077	1.666	445,020	1,624
		1,866		
(16) Not importe 2 (18) Stock Withdowni (+) or Addition (-) 2	753		11,903	42
	733	24	- 1,090	- 4
(17) Yorki NGPL Supply		1,754	455,583	1,663
Other Liquids				
Unfinitelyd Oils and Gasoline Blanding Components, Totali				
(16) Stock Withdrawol ( i-) or Addition (-)	-4,110	- 137	- 4,216	- 15
(12) Terporte	9207	327	84,366	205
(20) Other Hydrocentons and Alophol New Supply (Field Production)	1,186		12.766	
				563
(21) Refiney Proceeding Geln 1 (22) Clude Cli Product Supplied	1,220	86		63
(22) Crude Cli Product Supplied	25,500	850	251,524	954
(24) Yold Production of Products P	447 537	14,901	4,003:216	14.769
(24) = (12) + (17) + (22)			-,,-	
Net Imports of Relined Products 2				
(25) Innode (Nerse)	45.223	1,509	453,485	1644
(20) Experis	15.069	502	133 598	506
(27) Imports (Net)	31,294	1,007	311.863	1,138
(cr) selves fued	30,294	1,001	311,003	1,130
(28) Total New Supply of Products	478,141	15,930	4,242,078	15,947
(20) = (24) + (27) (26) Refined Products Stock Withdrawel (+) or Addition (-) 2	- 10.793	- P23	-21.661	- 79
	- 10,744			
(30) Total Petroleum Products Supplied for Domestic Utes	450,420	15,315	4,220,298	15,765
(31) Finished Notes Gasoline	735,405	6,614	1,834,502	6,596
	72,944	2,065	782,950	2,857
	34,864	1,495	344,566	1,418
	44,898	1,489	424,282	1,549
(05) Oltar 4	99,155	2,316	872,713	3.186
(36) Crade (38	1 993	85	17.254	62
(37) Total Product Supplied	459,438	15,215	4.220.388	16.766
(37) = (31) shough (36)	-01,-00		-,,,,,,,	
Enring Stocks, AN Oils				
	325 331	_	325.331	
(III) Sixtagic Petroleum Reserve (SPR)	431,069		423,000	-
(40) Unlinehad Cils	198,471	-	105,471	=
		=	40,765	-
(41) Gustelina Blanding Coreponents 5	46,760	=		
(43) Plainted Plained Products 2	5,810	-	9,815 598,731	-
(40) Financia Products	1,516,192			**
(44) Total Stocks	1,4 m, 160		1,514,182	**

To blocking the control of the contr

			Supply					Descenton		
Commodity	Freth Produc- ton	Referency Produc- tion	Inports	Stock With- drawal (+) or Ads- ten (-)	Unser counted For Cruste Out	Cayde	Refresty Inputs	Esports	Products Supplied	Ending Blacks
Crude Oil (statuding lease confensate)	£ 262,767	٥	26,057	7,386	7,016	5/-	369,810	4,845	1,983	756,400
fatural Gas Liquids and URGs	49,863	10.545	5.746	30	0	0	15,864	707	49,524	125,106
Pentanas Plus	9,283	0	1.915	780	0	0	7,373	-	4,557	9,015
Liquithod Petroleum Gases	40,580	10,545	3,632	-713	0	0	6,491	786	44,966	115,291
Ethiop	15,634	525	020	24	0	0	8	eu :	17,179	89,318
Money Button	10,047	8,479	725	-1,835	0 0	0 0		9 0	4 000	200,000
Sobrate	3,000	ş	919	8	0	• •	3,784	-	Ą	9,33
Other Litutia	1.186	•	9.917	4.110	•	0	13.997	0	-7,712	148,236
Other Hydrocarbons and Alcohol	100		0	9			1.180	0	0	33.
		•	980	-0.418	0 0		0.000	0	-8.77A	108,471
Motor Gasoline Blanding Components	•	•	9 6 2 6	1 660	0	0	2.002	a	-1,938	40,115
Avistor Gasobre Blanding Compartents	0	0	0	-106	0	٥	-104	0	7	316
Tribbed Patroless Brachests	7	400.00	*****	-47 950	•	٥	o	14.262	415.634	483,440
Pivished Motor Gasoline	-	196 246	0.000	7.000	0	0	0	97	108,405	194,450
	-	76,356	4,840	-2,112	0	0	0	ę	78,948	47,074
Finalised Uniested Motor Gasteins	0	120,077	5.146	-8,748	0	۰	0	0	119,457	100,046
Fireshod Awation Gasoline	0	200	69	-16	0	0	0	0 0	7.00	200
Majorities rapie and Public	0	6,852	٥	ş	0	01	0	9	0,000	900
Agogana-1ype Jet Puet	0	27,000	803	374	0 0	0 0	0 0	2 4	3.494	6.969
į	-:	3,734	902	0.074			9 6	200	79.944	149.214
Posicial Fuel Ca	è	2000	2000	0.000	0	0		6.430	34,964	46.071
Naphtha < 400 Deg, for Patro, Feed Use	0	2 000	1 997	27	0	0	0	Ξ	4,802	1,850
Other Old > 400 Day, for Perm fless 11st		0,000		9	0	0		046	4,823	1,639
Special Naphthas	• 0	1 734	1 083	-227	0	0	0	ž	2,567	2,041
Untrooking	0	5,905	375	-276	0	0	0	370	4,995	12,620
Mares	0	800	2	446	0	٥	0	37	183	600
Petroleurs Colan	0	13,300	0	-188	0	0	0	5,984	7,228	4,057
Asphalt and Road Ol	0	15.471	1001	2,445	0	۰	0	*	18,912	15,900
Shif Gas Macellaneous Products	0 10	16,919	0	og	00	00	00	P 9	14,79	1,974
1					-	-	****	910.01	400.403	4 514 182
OSS spensors and the second se	313,830	416,836	155,201	-14,102	7,016	"Ta	399,988	18,919	626,450	

1 Unicocounted for trudes off a la biblioring form
(1 - Ledes than 500 betters.
1 - Ledes must not expansion of components the to veloperated former of the Total need of the trude of the

			Supply					Disposition		
Commodity	Fluid Produc- tion	Refinery Produc- ton	Imports	Shock With- drawal (+) or Adde- ten (-)	Unac- counted For Crude Out	Crude	Refinery Impuls	Esports	Products Supplied	Ending Stocks
Crude Oil (including lease condensate)	E 2,392,772	٥	925,554	-34,135	405,00	270	3,313,109	50.055	17,284	755,400
Natural Gas Liquids and LRGs Pentanes Pro	80,005	162,806	63,552	-6,584	00		129,829	12,337	469,211	125,106
Lapurited Patrolaum Gases	363,508	102,806	61,390	7,534	00	00	74,100	11,688	424 286	116,291
Propare	142,540	76.068	16,618	-6.000	0	0	1,034	6,921	218,271	64,000
loctularia musical management of the contraction of	26,306	136	5,745	1,378	00	00	32,577	640	60,172	21,562 8,201
Other Liquids	12,788	0	84,386	125 T	0	0	163,007	0	-63,129	149,236
Unfamilied Oils	12,780	•	63,970	14	00	00	110,276	00	47.279	106.471
Moter Gasolne Blending Components	00	00	20,411	-3,196	00	00	90,074	00	-12,959	40,115
Finished Petroleum Products	1,427	3,544,501	329,163	-14,147	0.0	00	00	126,900	3,904,032	403,440
Firshed Leaded Motor Gascine	300	716.894	36,729	6,170	> 0	0	00	1,203	758,559	87.914
Finished Unleaded Motor Gasokre	168	1,048,313	42,697	-15,736	0	0	0	6	1,070,000	100 546
Finalist Aveller Galdelin	00	0,992	989	-128	0 0	00	00	0 8	7,420	87.78
Kerosens-Type Jet Fuel	• •	250.340	13,001	-6.840	0		0	1.154	256.437	38.208
Kerosene	a	29,147	2,100	-1,129	0	0	0	98	30,178	0.903
Defiliate Fast Of	300	727,961	70,474	-2,812	0	0	0	12,738	782,050	143214
Republic Ford Oil	00	237,542	195,256	2,137	00	00	0 0	46,465	369,569	46,971
Other Ots > 420 Des. for Patro Feed, Use		60,539	0	48	• 0	0		4.114	65,573	1,000
Special Naphthas	99-	15,291	16,073	315	0	0	0	578	30.977	2,941
Librarits	0	44,051	2,654	-446	0	D	0	4,172	42,850	12,520
į	0 (	3,992	899	5	0.0	01	0 (	2	422	000
- 100 100 100	0.0	100 400	2,680	2,889	> 0	0 0	00	163	114.829	10,957
SMIGAN	0	155,190	0	0	0	0	0	0	165,129	0
Miscellaneous Products	ŝ	15,956	3000	9	0	0	0	662	19,230	1,974
Total	2,850,590	3,747,307	1,472,652	-61,062	56,537	270	3,599,025	189,312	4,320,336	1,514,182

<sup>1</sup> Ukusozuritek ler onde oli si a kalendelle sirin.

(j. 6. Lessi kan 1900 barrak.

(j. 6. Essi k

\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$				Supply				Desp	Deposition	
	Onemotity	Fletd Produce ton	Redinsey Produc- tion	Imports	Stock With- drawal (+) or Add- ban (-)	Unac- counted For Crude Our	Oude	Retnery Inputs	Departs	Products Supplied
# # # # # # # # # # # # # # # # # # #	Crude Oil (instading lease condensate)	E 8,759		3,234	286	234	7	12,327	162	20
### ### ### ### ### ### ### ### ### ##	Abbital Gae Legalds and I Rise	1,662	362	189	-	o	0	8	20	1,663
		308	0	2	24	G	٥	246	99	152
	Rum Gasson	1,363	382	22	27	0	0	2	26	1,499
	the special control of	S	22	38	15	0	0	ev	8	E
		232	283	57	4	0	0	•	8	181
### 1	200	200	8	5	12	0	0	152	9	142
		100	7	Ę	n	0	0	35	£	7
	When I have		٠	0000	***	•	•	407	•	-262
	Control of the contro	•	•	ž	100				•	
		9	0	0	8	0	0	8	9	
		0	0	22	9	0	0	55		- 136
	-	0	0	92	ş	0	0	ŝ	0	Ŗ
	Aviation Gasoline Blending Components	0	0	0	4	0	e	7	0	Ξ
1	Deleber Betreferen Bendunt			-	900	•	•	•	307	23000
10   10   10   10   10   10   10   10	Street Marie County	•	10,040		200		> <	•	ř	200
1   1   1   1   1   1   1   1   1   1	Married Model Odbollic	£	656	355	-46				4 4	2000
Control   Cont		8	2,542	ē	R				40	100
1	in e e e e	0	4,003	2	-185			9 0	> 0	
	Personal Available Language	0	S	N	7	5	5		> 1	3
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The second of the second	0	222	0	-	D	9			21
1	*****		833	8	52	0	0	0		9
7 (20 for party services)		2	124		7	0	0	D	2	
1		8	2.723	285	-325	0	0	0	N	2,500
2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2		0	961	888	Ļ	0	0	0	214	8
Management Prince Front Color (1971) 1971 1971 1971 1971 1971 1971 1971	inspiring < 400 Dag for Petro Feed Use	0	113	2	-	0	6	0	• ;	201
10000000000000000000000000000000000000	Cither CMs > 400 Day for Petro, Feed, Use	0	178	0	**	0	•	0	23	101
Company   Comp	Spekhalik Maphitines	o	5	38	Ŧ	0	0	0	-	8
The state of the s	Librarit	G	128	13	7	0	0	0	22	167
The control of the co		G	*	N	Ŷ	a	0	0	-	16
The first part of the first pa		G	177	c	9-	0	0	0	186	ž
### 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			618	33	2	0	0	0	ε	8
annous Products				٠	•	0	۰	0	0	ž
10,864 13,897 5,173 -470 204 -2 13,322 664		2 04	ŧ	-	n	0	0	0	-	Ş
10,464 13,897 5,173 470 2.04 -2 10,464 19,897	3					-	•	010.00	***	350 35
	DO.	10,484	13,897	5,173	P	200	۲	3,366	-	and and

Table 5. Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January - September 1984 (Thousand Barrels per Day)

Commodity	Field Produc- bon	Refracy Produc- tion	Imports	Stock Wath- drawdl (+) or Addi- tran (-)	Unac counted For Couls	Crude	Refinery Imputs	Esparia	Products Supplied
Crude Oil (including lease conducable)	E 8,733	0	3,378	-125	352	-	12,052	183	3
Ashural Gas Liquids and LRGs	1,619	375	232	ē	0	٥	474	45	1,676
Partianes Plus	292	0	45	7	0	0	203	04	127
Liquelled Petrolisam Gasses	1.327	375	187	-27	0	o	270	43	1,549
Ehane	906	33	74	*	0	0	ev	ю	999
Property	020	582	6	-95	0	0	*	SS	930
Received Business	8 8	27	84	140	00	00	<b>2</b> 5	o ∾	Ž ~
Other Liquids	4	۰	300		a	0	659	0	-216
lones and Alcohol.	47	•	0	8	0	0	99	0	0
Unfrished Ods	0	0	233		0	0	462	0	-178
Motor Gasdine Senang Corporants	۰	0	74	-15	0	a	110	0	Ť
Availed Gasoline Diending Components	0	0	ε		0	0	8	0	8
Inished Petroleum Products		13,301	1,457	-02	0	•	0	463	14,248
Purshed Motor Gasteria	ou-	6,441	230	ş	0	0	0	10	6,605
Prighted Leading Motor Gasoline	-	2,619	134	2	0	o	0	0	2,78
Principal Unicaded Motor Gascina	- 0	9,929	136	60	00	00	0 (	0 0	3,027
Mandalla Tona Sai D. ad	9 6		* 5		9 0		•	٠.	N N
	00	919	9	7 %	00		0 0		222
	8	100		T	0	0	0	ε	110
Distlate fuel Of	-	2,659	257	-10	0	0	0	48	2.857
Pasidual Fuel Of	0	967	713		٥	0	0	170	1,410
Naphtha < 400 Deg for Petro Feed Use	0	128	33	ī	0	0	0	9	153
Other Ods > 400 Deg for Petro, Feed Use		254	0	-	0	0	0	9	220
Special Naphthee	8	8	ŝ	-	0	0	0	~	113
Librosits	0	163	10	ç	0	0	0	15	157
Water	a	÷	-	-	0	٥	0	-	13
Patroloum Cose	0	144	٥	eu.	0	0	0	1961	247
Asphali and Road Of	0	800	20	=	0	0	0	-	419
Shill Gas	0	803	0	0	٥	0	0	0	996
Miscellaneous Products	ev.	8,	Ξ	Ξ	0	0	0	-	2
otal	10,434	13,976	6,375	-523	3552	-	13,124	ŝ	15,768

(a) = Less ten 300 bantels
 (b) = Less ten 300 bantels
 (c) = Less ten 300 bantels
 (d) = Less ten 300 bantels
 (d) = Less ten 300 bantels
 (e) = Less ten 300 bantels

Table 8. PAD District I, Supply and Disposition of Crude Oil and Petroleum Products, September 1964 (Thousand Barrels).

			S	Supply				Oso	Disposition		_
Commodsy	Produc- ton	Refmany Produc- bon	hports	Shock With- densed (+) or Adds- ben (-)	Unac- counted For Cousa Oa <sup>1</sup>	Net Rocests	Chude	Refrieny Imputs	Esparis	Products Supplied	Ending Sports
Crude Oil (including lease coordensate)	E 1,722		28,543	3,706	-266	1,867	0	35,084	۰	0	12,412
differed Gare Liquids and LRide	949	986	1,355	-707	0	3.023	0	187	52	5,295	3,
Litashed Petrolisan Gases	785	986	55	-702		3,023	0	146	18	4,644	4,182
	136	0	ž	47	0		6	4	0	822	7
Other Liquids	9	0	1,767	138	•	929	•	2,060	0	432	17,949
Other Hydrocarbons and Alcohol	20	C	0	-18	0	•	0	-	0	٥	-
Uninstituti Oils	6	0	529	-548	0	386	0	2	0	215	12.66
	0	a	1,164	600	0	124	0	1,201	6	839	5,42
Anaban Gastine Blanding Components	0	0	٥		0	0	0	0	0	0	-
Taished Petralisan Products	•	37.956	33,656	-10.016	•	65,226	0	۰	70	126.394	165,234
	0	17.820	6.332	328	0	39,138	0	0	80	65,574	58,47
Gasstra		5,865	2.887	671	0	12,291	0	0	œ	22,726	2.2
Frished Unleaded Motor Gaspate	0	11.957	4,446	-312	0	26,857	0	6	D	42,948	33,75
Prisched Awston Gasobne	0	=	19	7	0	247	0	0	a	318	8
	•	200	۰	186	0	203	0	0	٥	1,024	2
Kerosene-Type Jet Flust		1,382	629	-239	0	9,209	0	0	0	11,181	3,44
Kerosene	0	8	209	~240	0	275	e	0	8	'n	3.86
	c	7 580	7.978	-6.266	0	14,828	0	٥	20	21,906	57.56
Readust Foot Oil	G	3.557	14,901	-3.125	0	440	0	0	218	16,585	25,002
Naphtha and Other Oils for Petro Feed	0	17.0	-	8	0	ş	0	6	8	ž	*
Special Naththas	c	22	200	- 10	0	183	0	•	*	8	6
,	. 0	250	113	216	0	535	0	0	2	1,804	3.18
World		8	8	0,	0	5	0	0	**	108	ä
Petroleum Cole	00	100	•	27	٥	٥	0	6	245	877	200
Auphah and Road Oil	6	3.281	767	1.031	0	383	0	0	-	6.357	3,43
Stil Oas .	a	1,555	۰	0	0	0	0	0	0	1,555	

(a) = Lars tans GO bonnés (b) = Latrimand Con bonnés Sola Toda may not equal sum of components due to independent rounding

132,092 199,835

71,006

38,945

to Total may not equal turn of components due to endapendent numbing under and estimation procedures. See Esphinatory Notes on Data Collection and Estimation.

Table 7: PAD District II, Supply and Disposition of Crude Oil and Petroleum Products. September 1984 (Thossand Barrels)

Commodity Pro								CSAC	Conscion		
	Produc- ton	Refinery Produc- son	shoom	Stock With- drawal (-) or Adds- too (-)	Unap- counted For Crude Orn	Net Recepts	Crude	Patmary Inputs	Esporta	Products Supplied	Ending Stocks
Crude Oil (including lease condensate) E 3	531,332	0	13,045	4,370	26,734	ğ	9	85,150	#3	0	70,218
Natural Gas Liquids and LRGs	10.245	2235	2.463	985	c	1,929	•	4.704	13	13 120	36.49
	8.784	2,235	2,463	2	• •	1.560		2,813	90	10,450	0000
	1,461	0	0	735	0	960	0	1,981	-	670	2,852
Other Doulds	137	0	27.	-2.224	•	374	0	-1447	•	v	26.70
Other Mydocarbons and Alcohol	137	0	0	130	G	G	e	150	0	0	6
Unfinished Ols	0	0	22	-1,488	0	344	0	-1.207	0	300	18.482
Motor Gasoline Blanding Components	0	0	0	-733	0	30	0	-973	0	-200	8,000
Avation Gasoline Blending Components	0	0	0	-10	0	0	0	-12	0	7	86
Torshed Petroleum Products	18	89.652	948	-2,514	0	25,015	٥	a	36	113.401	104 101
Frishtd Motor Gasobne	0	49069	319	3476	0	17.016	0	a	-	62 62A	58.01
Firsthed Leaded Motor Gazohna	0	20,205	253	-804	0	8,443	0	0		27.967	28.366
Firshed Unleaded Motor Gazobrae	0	28,854	99	-2,542	0	8,573	٥	0	0	34,361	20.566
Finished Aveston Gasoline	0	141	0	7	0	123	0	0	0	138	900
Nephtha-Type Jet Fuel	0	888	0	-16	0	141	0	0	0	1,011	1,466
Kérosona-Type Jet Fuel	0	4,351	0	Ş	0	1,948	0	0	0	5,786	9,875
Kerpsene	0	775	0	-210	0	8	0	0	0	8	2,417
Datrilate Fael Oil	0	18.275	385	679	0	6.181	0	0	(2)	26,487	38,610
Readul Fuel Oil	0	1,745	Ġ	251	0	-141	٥	0	0	1.816	3497
Naphtha and Other Oils for Petro Feed	0	812	*	^	0	g	0	0	27	909	180
Special Nephthes	•	6552	8	ġ	0	142	0	0	*	276	438
Lubroants	0	870	16	2	0	133	0	0	30	1,062	2,069
Wants	0	45	123	-15	0	0	0	0	-	41	2
Petroleum Coke	0	2.574	0	38	0	0	0	٥	222	2,377	7.00
Asphalt and Road Of	0	5,200	52	733	0	383	0	0	2	6,205	6,963
\$9 Gas	0	3176	0	0	0	0	0	0	0	3,176	0
Miscollaneous Products	9	161	93	ş	9	-104	a	0	2	8	<u>8</u>
b	41,739	210016	18,724	282	36,734	29,207	7	88,365	732	128,526	259,595

The transcribed for trade of as balancing from 0) — Less than \$00 bitmes
E = Elizamented
E = Elizamented
What is not be guil alon of components that to independent roparings
Sources and advantation procedures. See Experimenty Walke on Data Chieston and Estimation

Table 8. PAD District III, Supply and Disposition of Crude Oil and Petroleum Products, September 1984 (Thousand Barrels)

Products   Products				ag.	Supply				Deo	Deposition		
	Commosty	Pretty from tron	Rotmery Produc- tion	Imports	Stock With- change (+) Addi- hon (-)	Linac- courtood For Crude Out	Net Receipts	Couch	Refresy	Exports	Products Supplied	Enting
	Crude Od (including lease condensate)	E 127,482	٥	51,174	-942	-26,895	16,881	-16	167,992	ε	ā	585,638
	Natural Gas Liquids and LPRs	34,789	6.853	1,017	-493	٥	-3,438	0	9,446	619	27,297	99,20
		28,302	6,050	2 2	88 7	00	-3,311	00	6,007	919	2,168	589
	Other Uquida	503	۰	6,455	-1,947	۰	7967	0	12,484	0	-7,215	68,89
	Office Psycholisticals and Abginol	808	0	0	0	04	0	00	902	0 0	0	3
		0 6	0.0	200	1,074	9 6	- 200	0 0	1 474	9 0	3010	18.0
		00		0	8		0	•	60	0	0	2
1	Finished Petroleum Products	8	102.337	5,229	-7,421	٥	-54,078	0	۰	196'9	90,202	126,79
	Fireshod Motor Gustoling	-	01,672	916	1,547	0	-57,764	0	0	33	29,921	2.7
	Physhed Leaded Motor Caspano	-	34,395	112	-1,963	۰	-21,531	0	0	37	11,056	22.3
	Penethed Unicoded Motor Gasplane	0	67,277	900	-2,504	۰	-36,283	0	٥	0	19,765	28,32
	Mandalin Tree Land	0	200	0	E	01	-902	01	0.0	0 0	7	25
	Management Trans.	0	3,469	0	- 17.		-010	9 4	9 0		0.000	
	Merchane .	0 -	4,014	00	900	po	-11,040	0	0	E	2.271	2.4
Preserve res	Discusse Fuel Cel	47	00 00	-	1.000	0	-21.150		a	481	16,000	32,50
Press   Pres	Residual Fluel Cal	, 0	10 980	2 5.47	404	0	-200	0	0	2,327	9,662	
1,11		0	7 500	1 389	188	0	-30	0	٥	460	0,202	2,0
2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Special Naphthas		17171	773	172	0	-328	0	0	20	1,422	3,6
	LUDINOSMA	0	3,518	27	1915	0	-700	0	0	257	976,	6
2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2	Water	0	25.6	20	-27	۰	ę	o	0	22	2007	¥
2, 2,460 44 280 0 -164 0 0 0 333 1,101 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Potroleum Cole		8 708	0	-25	0	0	۰	0	2,337	3,117	9,48
0 8,101 0 0 0 0 0 0 8,101 736 11 17 0 19 0 0 9 908	Asphalt and Road Oil	0	3,460	44	203	0	-546	0	0	8	3,225	2,58
. 47 756 11 -17 6 19 6 6 9 808	Sali Gas	٥	8,101	0	0	0	0	0	0	0	6,101	
	PASCERTANGUE Products	47	756	=	-14	0	19	0	0	9	909	ā

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19 0 0 9 803 972 -01279 -16 189,932 6,675 190,273 803,103

-10,303 -26,895

196,190 60,875

163,172

Total .....

Table 9. PAD District IV, Supply and Disposition of Crude Oil and Petroleum Products, September 1984

			ä	Scotly.				Desc	Deposition		
Controctly	Pred Produc- ton	Refinery Produc- tion	in pers	Stock With- depend (+) or Addi- son H	Unsc counted Fer Couds Ort	Net	Crude	Retnery Imputs	Beorle	Products Supplied	Ending
Crude Oil (Including lease condensate)	€ 17,028	0	22	200	-4,532	0	0	11,246	a	*	13,333
Netural Gas Liquids and LPGs.	2,814	121	98	788	0	-1,514	0	200	7	2,051	1,286
	2,007	Ž,	88	8	0.0	1,272	0.0	98	n.	1,622	88
Fertilines Plus	8	3	5	7	9	7	•	Ī	9	9	907
Other Liquids	0	0	0	31-	0	0	0	7	0	270	425
Other Hydrocarbons and Alcohol	0	0	6	0	0	0	0	0	0	0	٥
Unfinished Orls	0	0	0	102-	0	0	a	-489	a	255	2,692
Metor Gasoline Blanding Components	0	0	0	E	0	0	0	8	0	15	1,534
Avabon Gasoline Blending Components	0	0	0	0	0	0	0	0	0	0	٥
Flashed Patrolaum Products	N	13,389	37	505	0	158	0	0		14,181	11,333
Freshed Mgtbr Gasolma	0	6,861	88	108	0	145	0	0	0	7,162	4,699
Frished Leaded Motor Gasoline	0	3,923	8	212	0	ş	0	0	0	4.127	2,697
Finshed Unicaded Motor Gasoline	0	2,938		-106	0	203	0	0	0	3,036	2,002
Finalhed Avelops Gesotine	0	83	0	7	0	23	0	0	0	48	98
Maphtha-Type Jet Fuel	0	477	0	27	0	-179	0	0	0	270	356
Karosana-Type Jet Fuel	6	280	0	101	0	473	٥	0	0	1,164	786
Kerdeerle	0	*	0	0	0	0	0	0	0	9	5
Destigle Fuel Oil	6	3,40,4	ğ	165	0	909	0	0	0	3,339	3,346
Pasdual Fuel Cal.	0	300		7	0	0	•	0	0	307	9
Naphtha and Other Oils for Petro Feed.	0	**	0	7	0	0	0	0	-	7	
Special Naphthas	0	*	8	٩	0	0	•	٥	0	re	a
Lubricants	0	30	8	ņ	0	a	0	0	re	92	90
Wicold	0	8	0	-12	0	0	0	0	0	38	77
Petrokom Coke	0	308	0	-10	0	a	0	0	8	196	169
Asphalt and Road Oil	0	908	*9	33	0	0	0	0	E	1,106	1,258
Sall Gas	0	461	0	0	0	0	0	0	0	100	0
Meceligracus Products	2	23	0	7	0	0	•	0	0	æ	55
1	10 044	1000	1,512	290	937	-1356	0	13,313	14	16.205	30.175
ONE STREET, ST		i			,	,					

Total .....

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 Lines from 500 burnish
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 Lines from 6 regular and companies due so nodoporder nounding.
 Most. Tidat from 6 regular and companies due so nodoporder nounding.
 Surrisk and decreation procedures. See Expressiony Notes on Tibat Colombian and Estimation.

September 1984 Table 10, PAD District V, Supply and Disposition of Crude Oil and Petroleum Products, (Thousand Barrels)

			30	Supply				Desc	Descenden		
Commodity	Pred Produc-	Rotney Produc- tion	imparts	Stock With- driews (+) or Add- ton (-)	Unac counted For Coude On On	Net Percepts	Courte	Retney	Sperts	Products Supplied	Ending Stocks
Crude Oil (including lease confensate)	E 65,203	۰	4,946	1,09.7	2,253	-16,757	9	68,380	4,412	1,955	74,738
Natural Gas Uquids and LPGs Ligated Peroferm Guess Pentares Pas	201 612 84	£50°	2 8 8 E	284	000	000	000	720,	850	1,820	2862
Other Liquids	222	0	716	-810	۰	0	a	1333	0	-1204	31,78
Other Hydrocarbons and Alcohol	223	0	0	7	0	0	0	\$22	o	0	
Unimersed Oak	0	0	e.	-1,221	0	0	0	3	0	-1.783	20,000
Amazon Gasoine Blending Components Amazon Gasoine Blending Components	00	00	ŭ o	57	00	00	00	3 F	00	60	, M
Finished Petroleum Products	•	20.00	1.460	1 000	•	0.478	٥	•	7.326	71.456	51.92
Firsthed Motor Cascine		100.00	200	2007	e	1,486		c		108.00	19.645
Finated Leaded Motor Gasoline	0	11,800	9	17	0	96	0	0	0	13,073	8,756
Finished Unleaded Motor Casoline	0	19061	8	-240	0	989	0	0	0	19,745	10,890
Friethed Avreson Gasoline	0	265	٥	97	0	0	0	0	0	229	3
Naphtra-Type Jet Fuel	0	1,523	0	22	0	380	0	0	a	1.956	1,85
National Type Jat Flag	0	7,622	7.5	497	0	212	0	0	23	8,379	8
Continue Continue	0	8	0	25	0	0	0	0	ε	2	3 5
Bondow Dat Co.	0 0	80	103	8	0	100	0 1	D e	9000	12170	0.00
to Die for Being Sand		000	ť			9 0		·	212	1.36	16
Special Nighthan	0 0	25	e ë	. 8	9 6	0	9 0	0	-	25	13
Untrothing		202	30	3	e	-38		a	90	327	8
	0	R	e	0	0	0	0	0	w	74	26
	0	3714	0	2	0	0	0	0	3,067	8	1,65
nd Road Ot	0	2.613	130	220	0	0	0	0	ε	2,965	1,68
5th Gas	0	3.526	0	0	0	o	o	0	0	3,626	
Medicinational Products	0	137		99	0	o	0	0	*	202	,

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2. Electron 2. Electron 1000 balancing and a composition of the composition of the

100,101 74.037 11.058 20,740 1 -16,278

2,253

1,982

7,705 74,373 59,524

Total

Table 11. Production of Crude Oil (including LAsse Condensate) by PAD District and Strain, for the Most Currently Available Month, \*July 1964 (Thousand Bartel)

PAD Defect and State AD Defect and State Plants Plants Plants Perceivers Perceivers Perceivers Perceivers Perceivers Perceivers Perceivers					
	Total	Conty	PAD District and State	Total	Clark
	ı	Avegoe			нажа
1 1 1 1 1	1148	22	PAD District IV		
1 1 1 1	231	6.3	Colomb	E 2.430	E 78
Vigna Weet Vigna	200.3	00.00	Mothers	6.2347	87.8
West Vigins		0 11		5.2.728	98 3
A COLUMN TO THE PARTY OF THE PA		5		F 10 118	E 529
		2 .	-		100
Adustrian s	7	7 :	ACCOUNTS		
Total PAD District I	1,861	8	TOTAL PAID DISTRICT IV	6.17,004	200
AD District II			PAD Dallrict V		
B06	2,470	2	Abska		
Infano	659	2	South Alaska	1,871	9
	4.704	200	Shorts Chros	40.658	1 834
A 100 CO.		į	Coloniana for Started	0 902	200
WHILE IN THE PARTY OF THE PARTY		18	Total State	60.000	1 760
MCHORD Distriction of the control of the cont	9007	3	populari	200	
Masouri	22		WIGHT	9	
Nicoska	22	13	Calibras		
North Dakota	4,500	¥	Central Coastal	6,634	214
Obs	£ 1221	643	East Central	21,486	089
Oklahoms	14.579	20	North	22	8
		,		6.700	242
COUNTY CHANGE AND THE PARTY OF	-			24 866	
Tenessee	22	n	Total Calcons	26,835	100
Adustrian 2	-1.138	Ą	Newacta	150	
Total DAD District II	F 12 ANT	51045	Merchant for Arovan California and Neurobil	977	-14
			Total Bath District V	00 470	2005
10 Contract III					
	* 200	t	Halland Planton Today	F 924 Bath	1 0 300
Change of the last					
Articulation	200	8	1 bedy der the fellenne milebra gate bies ille nes bedy	( promoter)	
COMPARTS			HORSE HE ISLEMING CHECKED PROCESS THROUGH	( contract)	
GERT COAST.	246,042	100	Alighe Order 1,000,		
Past of State	2,689	is	Customic Popular - 2,002, State - 3,455,		
Total Losesiana	5 42,541	61,405	Loussens Federal - E27,975, State - 2,264,		
Visioning	2,000	26	Texas. Federal - E1,745, State 128,		
Man Manco			US Topl - E39,888		
	-	1	7 These adventments we used to recovering the national and PACO	at and Parth	
Northwestern	1	2	THESE SUSSESSION OF UNION OF THE PROPERTY OF T	The same of the sa	
Southeighern	200	8;	Seed south or the count with the transfer of the state	- Comments	
Total New Mexico	g	702	U.S. Sirc Authorn against strong in the commany collector	annual portion	
Teores			OF THE SEASON BITS WITH THE PAUL NAVO HOURS PAUL	CASO III G	
TRRC Deanct 01	2,159	e	previous sesse. Final data at the State, PAD Definel and	d and	
TRRC Deniet 02	3,370	80	national levels will be published without adjustments in the	s in the	
TRBC Depart Of	E 10.404	E 326	Petroleum Supply Annual		
TOBIC Deliver On	2,671	23	(a) = Less than 500 barrels		
TBBC Detect Of	3	12	Note. Tatal may not equal sum of components due to independent rounding	independent rounding	
	2,630	117	Source. See Pertanation Notes on Data Collection and Patameter	of Estimator	
TODG Count of the sales is the sales of the	3000	8	E = Formation		
THE PROPERTY OF THE PARTY OF TH	00000	12			
TRIC DEBOT U/C	200	2 [			
THAC CHEMICA US	2006	3 5			
TRAC District 08A	18,191	in the			
TRRC Dated 09	3,410	R I			
TRAC Dated 10	1,047	8			
East Teass	4,139	5			
Total Tends	76,127	2,496			
t to management of t		9			
Digities III	6 130,538	E 4,211			

	Vd	PAD Datner	-		PA	PAO Daniel	_				PAD Dis	101111	١		DY0	DVG	١
Certmodity	East	Appela chian	Total	Appella- chan a2	E S	Men. Wrec. Dake.	Name.	Total	Toras	Gurt Coast	20 0 La	No La	New	Total	Des. IV Rocky	West V	States
Natural Gas Leuss Persanse Plas Ligadosa Petroleum Gases Petroleum Gases Petroleum Gases Petroleum Gases Roccia Gases Roccia Gases Roccia Gases Roccia Gases	402 402 402 403 403 403 403 403 403 403 403 403 403	58548	935 243 244 44 45 45 45 45 45 45 45 45 45 45 45 4	-0-0-00	1 8 3 3 8 8 8 5	885 2 5 E	2,582 2,683 2,683 1,67 1,63 1,63 1,63 1,63 1,63 1,63 1,63 1,63	10.245 1,481 3,784 3,784 3,266 1,093 636	2,2,885 2,418 2,418 2,588 2,588 2,004	2,482 2,482 1,147 1,086 164	5250 5260 5260 5260 5260 5260 5260 5260	3225 m	25 25 E 2	34,786 8,387 26,382 11,345 10,786 2,138	2814 2007 287 287 488 481	## 55 m 25	49,843 40,540 16,634 16,947 5,961 3,008
Frenched Navior Trockets Frenched Navior Customs Frenched Navior Navior Customs Frenched Navior Navior Customs Frenched Navior Navior Customs Frenched	0000000000	0000000000	60000000000	*********	-000000000-	0000000000	*000000000	80000000000	8	\$000000000	4000000004	nocogococon	N00000000N	80000-505	#000000000	0000000000	ž0000-408
Total Production	402	517	919	-	1,775	900	7.977	10,261	10,620	2,963	7,193	965	4,244	34,885	2,616	1,008	49,977

		å	PAD Dignet	_		ď	PAD Demen					2007	PAD Detrot III			DWG	ga	
Include the control of the control o	Commodity	Count	Access chain		Appala- chum	F.	Wisc.	No.	Total	Teacts Intend	Gurl Cours	3 ge 5	3 4	New	Total	Peet IV Mt dy		Same
The control of the co	harde Or feedballon lease confensatel	32,365		35.094		54.501	8.665	20,258	85.108	15.540	89.307		6.673		167 980	13.946	68.390	360.8
The control of the co		4		4	0	817	38	8	1,891	1,097	3,185		117		5.037		2602	7.37
No. 100   No.				9	125	1,519	8	629	2,813	3	w		8		4,409		787	8.49
Compared by Comp	fibron			0	0	un	۰	0	2	0			0		47	٥	٥	28
The control of the co	Processe			0	0	8		0	39	٥			0		S	0	0	a
No. 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,	Normal Butane			Si	27	99		448	1,488	707			F		2,248	228	471	4,55
Compared by Comp	Isobustre	ă		ä	2	660		ij	ŝ	372			8		2,084	8	282	3.78
10   10   10   10   10   10   10   10	Other Liquids		e		e	÷	e	2	9	e	230	8	c		93	c	8	4
	Unfreshed Of (net)	118	8	3	·φ	1,220	Ľ	7	-1,207	252	10,994	900	-50	g,	10,273	8	ŝ	8.98
man	Components (net)	122	-38	1,201	ğ,	\$6	-183	150	EP P	9	52	1,279	B	-15	1,474	SR.	ž	2,922
No. 1	Components (net)	0		0	0	-15	0	4	-13	0	8	ą.	0	0	Ŗ	0	9	-104
Page 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		34.523		120,72		25,080		22,048	88,365	17,141	223,622	855,538	5,55	1,822	189,922	12,313	70,740	125/551
	Crude Dil Distribution				1	1	1	1		1		!	1	1		1		-
The state of the s	1			9	83	1,812	2 2	ġį	2000	91	2002	7,000	100	'nş	3.074	2 9	200	1232
Tables Among 1, 19 10 10 16 16 16 16 16 16 16 16 16 16 16 16 16		78.4		383	88.0	77.8	1620	98	ž	96	728	88	84.2	83.6	38	79.4	752	20
	Soute Oil Qualities Sulter Content, Weighed Avenige						-			-				-	1		-	
1,404 174 1578 66 2,025 304 791 3,489 610 3,709 2,558 266 107 7,309 559 3,000 105 105 107 107 105 105 105 105 105 105 105 105 105 105	H		9	8 6	38.55	8 8	83	93 20 20 20 20 20 20 20 20 20 20 20 20 20	28	37.94	34 52		8 9	8 4	34.51	88	88	32.8
	Operable Capacity (daily average) Coperating			1,578	880	2,709	ĕ 81"	£82	3,490	88.7	3,486	2,528	882	95%	57.78 87.78	200	3,060	15,994

Commodity

Javelod Refray Gases.

	Dogun	Stations	ĺ	10,545	3,578	6.963	200	315	277	8,479	2,001	6,478	1,450	1,287	212	ņ	195,345	78,269	120,077	703	6,552	27,989	3,734	81,883	25,927	3,310	5,326	1,734	5,202	8	13,300	2,996	5,344	15,471	16,919	1,121	15,798	1,305	8	1,072	416,096		-1728
S	7 150	West	1800	1.347	168	3	٥	0	0	984	150	781	416	5	403	0	30,591	11,850	19,041	5692	1/83	7,622	8	10,90	9,819	28	200	9	308	2	9,714	2,678	Ē	2,615	3.625	90	3,518	197	er.	120	74,373		-9.633
976	Deg IV	Booky		121	151	116	0	0	0	28	0	128	4	2	ç	es	6,851	3,923	2,038	83	477	8	*	3,404	200	۰	~	٧	98	8	ĝ	6	146	808	ű	ď	659	8	90	33	13,501		8
	Γ	Total	1	5.853	2940	2,913	8	315	350	4.148	138	2,764	1,168	1.271	-105	Q.	91,672	34,385	57.277	583	3,481	14,014	2,779	20,523	10,529	2,343	4,939	1,17	3,518	520	5,700	3,162	2,546	3,460	6,10	783	7,318	25	901	88	198.193		6,256
	-	Mesoco	1	Z	0	K	0	0	0	Ŧ	۰	\$	83	٥	ĸ	0	98	\$	487	0	ŝ	ន	33	377	*	۰	0	0	0	0	Ξ	0	Ξ	115	20	۰	8	۰	0	0	1.913		Ŗ
The same	-	À.		4	40	38	D	0	٥	8	0	8	=	9	9	0	1,465	98	2	٥	167	90	12	1,726	213	11	0	ğ	ď	88	3	8	8	1,089	38	0	150	9	٥	3	5.544		+
Č	9	Gulf	100	2,843	158	1,305	2	•	15	33	253	1,117	1,457	1,284	5	0	32,205	11,652	20,352	116	£	7,081	1258	12,626	2,689	121	3	131	ž	ð	2,254	1,550	695	1,259	2,590	237	2,383	283	184	89	68.501		3.183
	Texas	on.	100	2,963	1,386	1,497	523	314	230	2500	1,101	1,406	-167	-19	-148	-30	49,367	16,772	31,586	196	1,297	5,845	1,529	21,072	99979	2,107	3,207	828	2,351	ž	3,113	1,505	1,908	441	4,860	949	4.314	476	-15	491	105 560		-5.483
	1	mand		8	8	e.	0	0	0	8	8	36	-158	٥	-158	0	8,675	4,289	4,395	Ŷ	513	1,088	9	8723	705	8	183	2	52	00	393	8	305	8	451	0	461	7	۰	7	18.730		411
		Total	1	2235	246	1,980	0	0	0	2.419	244	2,175	-186	0	-166	8	49,050	30,203	20,054	7	900	4,381	775	19,275	1,745	238	174	412	833	\$	2,574	1,356	1,218	5,200	3,178	0	3.178	101	*	187	91 887		200,00
	Okta.	Ser.	8	282	8	33	٥	0	0	463	8	455	-186	۰	-196	0	12,350	6468	5,554	33	382	3	ş	5775	92	102	0	25	ã	83	200	8	215	989	678	۰	83	87	*	20	22.854		ŝ
Dominal of	Men.	Wee	1	ŝ	~	83	0	•	٥	229	۰	228	•	٥	0	8	4,617	2,247	2,370	0	ç	439	49	2,185	225	0	۰	٥	٥	0	202	197	2	1,245	283	۰	283	*	a	*	0.000		-326
ď	pre	ž.		1,621	178	1,453	0	0	0	1,861	25	1,483	10	۰	5	0	31,047	11,077	19,970	116	439	3,003	648	10.926	1251	686	174	178	23	8	1,70	200	200	3,007	200	٥	2.105	7	c	77	102.50	3	-2,531
	Appala	Sp.		36	۰	8	٥	0	0	8	۰	8	۰	٥	۰	0	1,055	4	8	0	£	9	8	439	8	۰	0	٥	٥	۰	27	٥	27	113	3	9	8	*	c	- 0	1 076	9	-78
		Total		608	Š	766	23	٥	23	855	22	889	E		510	0	17,852	5,835	11,967	=	505	1,382	8	7.580	2.587	17.	8	37	3	8	1,086	489	8	3,391	1 65	Š	100	ž	+	135	100		-1,624
Contract	Appoin-	chico		8	0	38	0	0	0	28	0	36	0	0	0	G	1,093	444	649	٥	20	0	8	913	19	٥	0	8	350	8	200	0	18	505	2	٥	3	8	×	8	2000		-57
4	1	100	1	ä	ž	737	83	٥	83	827	8	ŝ	Ē	-	ŧ	0	239	9	808	=	476	385	8	3,755	3.526	177	*	٨	198	0	720	660	578	2.185	433	228	200	136	Œ	ŝ	8		7867

Norths < 400 Day For Pero Feed, Use Other Day > 400 Day For Pero Feed Use Special Naphthia

For Delicohernosi Feedstock Use For Other Uses

Fuel Use

Canalyst Aughteit and Road Oil Still Gas Misculaneous Products Non-Fuel Use fotal Production ...

For Other Uses
Normal Blasse
For Personancial Fundance Use
For Other Uses
For Other Uses
Institute for Petro Freed Live
Findhed Motor Gascone For Petrochemical Feedstock Use For Other Uses For Petrochamical Feedwork Use For Other Uses

Finalist Leaded Motor Gasoline

Preshed Unleaded Meter Garnshed Aveator Garnshed Aveaton Gastoline

Aphthe-Type Jet Fuel Grosena-Type Jet Fuel

Datriga Fuel Or Residual Fuel Co Patrolaum Color Represents the antimotic difference between input and output
 Note: See Explanatory Notes on Data Collection and Estimation

Processing Gain(\*) or Loss(+)1

	6d	D District	_		Pag	D Detted					PAD Dist	10t II			PAD	PAD	
Commodity	88	Appala chan	100	Appala chan	1 'i	Merri. Wec.	Kara.	Total	Texas	Const	S. S. C.	to La.	New	Total	Pocky Mt	O West	United
First and Motor Chardran?	48.4	7 65	***	* 15	475	223	656	į	45.0	45.6	227	000	,	9.79	7 07	000	
2	0	٩	٥	0		٩		,	7	, "	ř	9		,	,	ï	, "
Gasses	8	9	2.0	20	23	23	57	2.1	ev	90	4.0	6	4	8	an	2.0	28
Naphtha-Type Jet Ruel	1.4	91	1,4	*	**	1,2	6		d:	7	13	31	691	1.9	3.7	22	90
Kerosene-Type Jet Puel		0	33	10	2,1	þ	4.7	25	69	29	11.00	-	20	7.9	94	5	2.4
		4	*	10	2.5	17	7	œ		16	50	2	-12	18	0	-	9
Distribute Fuel Oil		29.00	21.7	250	202	54.5	283	230	24.2	223	30.5	32.1	217	222	28.7	17.3	215
		22	10.0	339	2.4	25	9	2.1	46	20	4.7	40	en	93	24	14.2	00
Naphtha < 400 Deg F. Potro. Feed Use	0	0	9	0	1,20	0	10	0	0	22	**	on	0	2	0	re	œ
Other Otto > 400 Deg F. Potro Feed Use	0	0	0	0	69	0	0	04	77	ž	25	0	0	28	0	60	2.4
Special Naphthas	0	2	-	0	44	0	15	9	90	œ	**	å	0		0	0	40
Dishocants		12.8	13	0	9	0	13	97	-	5.4	*	10	0	2.0	04	,	4
Wass	0	23	2	0	0	0	,-	۳,	-	-	-	10	0	-	17	-	-
Petroleum Coke	100		30	2	25	99	0.00	3.1	17	23	33	12	9	3.2	90	25	3.5
Asphalt and Road Oil	9.6	3.8	85	99	67	13.7	4.1	6.2	3.6	10	20	203	88	1.9	7.1	90	4.1
Shi Gas	ņ	\$	43	25		ä	23	3.6	23	23	4.2	2.8	58	4.5	36	53	4.5
Miscellaneous Products	69	6	ĸņ	eų	**	eq	4	7	ø	ĸ	*	-	0	4	*	e	n

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Processing Gan(-) or Loss(+)4 . . . . .

	V	4,946 98,037							101				000		•																		130 1,001	
Petroleum Administration for Dalense Distrats	2	51,174 989							900	97	237	122			141				> 0	 	0	92		E	ì	2	100	5.0		8			••	
Patroleum	-	13,045 51,											0						• 0			2962								3 9	2 9	1 2	8.5	
	-	284643	1,255	ž	521	o	196	195	130	1,767	623	1,144	0	30.664	0.010	3 847	4.440	0	629	920	900	7,878	1000	2000	-	17 801	11		282	220		767	E	

To Out but were refressed to the outperined by the PAD Delation in which may are to be proceeding to the outperine of the pAD Delation in which may be to be proceeding to improve the page of the pAD Delation of early [1] — Lies have don't require the refressed in the Blanking Petrological Reserve (1) — Lies have don been on the page of the pAD Delation of the pAD Delation of the page of the Composition of the page of the page of the pAD Delation of the pAD Delat

Crude Oil (Including lease condensare) 1.2

Liquefedd Petroleum Gasos

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Awaren Gascens Ellensing Components Finalbod Petrolatum Productis 
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Bernisse Avastal Fuel

Kerosena Datálana Fuel Od Bordod Strpo Baréons  Naphina < 400 Deg for Petro Feed Use Other Olis > 400 Deg, for Petro Feed Use Special Naphinas

Asphelt and Read Oil ...

Total Imports ... 40000

Table 17. Year-to-Date Imports of Crude Oil and Petroleum Products by PAD District, January - September 1994 (Thousand Barrels)

	Comments			Petroloum Administrati	Petroloum Administration for Delense Detricts		
	hommo	-			Δ	,	Total
Compared   Compared	:	244,397	127,428	482,957	09'8	52,220	926,654
1	rbiral Gas Limids	12 296	120.001	653	300.7	74.7	
1		8,111	°	2,425	897	100	030 03
1	Liguelled Petroleum Gapes	4784	38.881	2120	3401	100%	21 300
			20.157	0	0		20 + 62
12   12   12   12   12   12   12   12		2397	10.481	1,427	1,709	yoy.	15.540
1   1   1   1   1   1   1   1   1   1	Normal Batane	1.072	3.874	1,087	1006	1978	8.775
1,000   1,00		714	2,409	ŝ	200	615,1	5,748
1   1   1   1   1   1   1   1   1   1		27,205	3,156	62,738	0	10,651	96.396
990. 10 10 10 10 10 10 10 10 10 10 10 10 10		18,050	2120	40,598	c	4.074	00000
	Votor George Blending Components	11,155	52	2,807	c	6.374	11700
	Aviston Gasoline Blending Components	0	0	0	0		9
1	nighed Petrolisum Products	325,460	8731	20,70	1044	43.00	100
		80.00	1.160	A mile	100	4 100	20,450
Control   Cont		30,285	ž	3.343	200	183	26.798
100 100 100 100 100 100 100 100 100 100		38,794	308	2 5 6 6	18	2.400	49.507
1   1   1   1   1   1   1   1   1   1		285		6	*	2	400
100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,286	0	1,500	0	- 00	4.102
10   10   10   10   10   10   10   10	1	11,835	0	0	0	1256	12.081
1,12   1,12		0	0	6	0	0	0
		11,035	0	0	0	1,255	13,001
1		2,174	0	10	0	95	2.180
100   100		24,165	2,415	1,029	1,095	1,920	70,474
1		0	0	0	٥	0	0
### 1		20275	2,415	1,029	1,095	1,500	70,474
100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Product Fuel Of	109,939	1,644	19,845	115	3,712	186.256
189899 1896 1896 1896 1896 1896 1896 189	Bonded Shop Burkers				0	10	
756 109 6,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Other	169,939	1,64	19.845	115	2712	195 258
2,000 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Naphtha < 400 Deg for Peto Feed Use	202	8	0.032	a	G	8 926
2572 2.729 8,547 4	Other Ols > 400 Deg, for Petts, Feed, Uge	•	0	0	a	·	-
1,01 101 807 1		2,662	3,729	550	*	1,142	16,072
9 8 8	Udwants	1,014	101	202		100	2004
	Wicots	5	N	190		33	896
20	London and Dearl Cal	2 100	120	275	23	409	2,000
	Management Day 4 and		8				

Coust of and universed dels are recorded by the PAD Destrict in when they have been as to be an to be presented, as from portions are reported by the PAD Destrict of sersy to the proposition of the page 1. Less than 500 betters.

(i) I Less than 500 betters. If of strange in the Strange Periodean Resonant (ii) Their Tyber Ingen except in mile or consomers due to be subsequent resonant processing the production of nondary. Sources & the bit Stranges on Data Collection and Espiration.

1,472,852

81,445

14,749

\$79,128

205,994

410,336

Total Imports

Table 18: Imports of Crude Oil and Petroleum Products by Source and PAD District, September 1984 (Thousand Berrets)	ade Oil a	nd Petrols	m Pro	ducts by	Source an	D DAD D	istrict, S	eptembe	1984					
Source	Oute Out	8	ope of the open of	Gasolne Blending Compo- nents	Finehed Motor Gasoline	12	Kerp-	858	200	Special	Other Prod-	Prod- wets	Total Petro- leum	Total (Darly Averag
							At PAD Districts	Sympte						
Arab OPEC	6,607	113	c	541	c	9	•	8	080		4 400	* 600	10000	1
gg,	88	0	0	0	0		0	90	0	8	0	8	500	ξ.
Kinds.	730	0	۰	0	0	٥	0	٥	334	0	0	ğ	1,133	
Sand Araba	4,633	ij.	0	0 ;	0	01	0	0	0	0	٥	125	4.758	15
Subtotal Arab OPEC	13,027	ž,	0	8 8	3 5	0.0	00	1,243	88	543 o	2,383	7,134	20.161	= %
Other OPEC	1													
Cohon.	200		0 0	0 0	0 0	9 0	0 (	00	ğ,	00	0.0	er.	1,280	
Indonesa	8.532	0	386	0	2	8	0	α	25	569	3	1,462	9 69 N	. 8
(rgs)	516	0	0	۰	o	0	0	0	۰	0	0	۰	516	
Majora	4,187	00	0 8	0 0	0 404	001	۰:	0 6530	612	00	°	612	4.789	9 8
Sabtotal Other OPEC	24,236	0	1,926	0	2,579	135	2	2.542	5,679	g	1,120	14,364	38,560	88
Other														
Angola	2,733	0	0	0	o	٥	0	0	0	D	٥	0	2.730	α
Australia	0 0	0 0	282	°ĕ	246	9 8	00	ov g	6001	06	0 0	2000	2000	\$
Brazi	0	0	0	90	27	0		90	967	0 0	8	1 677	1,677	2 *
Canada	9575	3,384	282	0	808	a		1,056	88	98	888	6.667	16,113	8
	ğ	0 4		00	00	00		00	195	00	ε	185	7,017	φ.
France	, 0	0	0					0	0	o d	9	9	, -	ě
	20,199	180	1,3	0	387	2		-	8	0	136	2,660	22,859	E PE
Netherlands		£		0 1	232	01		98	°	0	- 1	ž	365	-
Netherlands Artilles .	0 000	0 0	id	0 0	25	00		020	200	<b>10</b>	ß °	3883	4,700	2 2
Omen	0	. 0	0	0	0			0	0	0	0	0	۰	
People's Republic of China.	306	0	0	1,002	343	٥		0	۰	0	0	1,385	1,700	
Poru	0 (	0 1	8 8	0 0	0 5	0 0		0 9	22.5	0 8	3	620	9 9	
Romana	0 0		8 0	472	8 8	0		50		20	è	12	1,475	
Span	٥	٥	٥	0	0	٥	٥	0	0	•	143	146	164	
Trinded and Tobago	2738	0	0	0 1	9	01		8 '	0 4	•	0	8	3,002	Ψ,
Urelad Kingdom	14,489	> <	9	> 0	1 1 2 2	36.0		8	, 17	9 0		1 200	1.363	78
Zare	500	0	•	0		°	0	9		0	. 0	0	878	
Other Western	•	•	•	•	c	•	•	٠	c	3	•	3	5	
номериол	,	8		0 0	917	9	9 6	+ 2000	40.0	8 5	8	8 5	7.059	8
Subtotal Other	61,483	3,575	4,70	1,754	7,081	18	8	4,758	10,367	572	1,282	34,896	96,379	100
Total Imports	96.007	3,832	0000	2,576	8.938	203	202	8,543	17,886	1,083	4,765	56,394	155,201	5.1
							PAD Desmet I	i bust						ı
Arab OPEC	1,603	132	۰	0	0	٥	0	022	8	0	8	2.012	3.617	
Kuwasi	٥	0	٥	0	0	0	0	D	0	٥	2	0	>	

See footnotes at end of table.

		eracii i	Urfer	Gascine	Steebed			Per	Bread			Total	Total	Tenal
Source	5	8	B 8	Compo	Meter	13	ė ii	88	55	Nephbe	Prod.	ġ g	Petro Reun	(Daily Average)
							PAD District I	strict						
Saud Avaba	1,581	Š	0	0	0	0	0	0	0		0	1	1,705	15
Subtotal Arab CPUC	3,585	'n	0 0	ŠŠ	R	00	0 0	1,24	a 15	00	° ž	3,570	25.75	5 g
Other OPEC														
Ecuador	0	0	0	0	0	0	0	0	178	0	٥	178	178	
Gebon	909	0 0	0 6	0 0	0 0	0 0	0 6	00	0 0	0 0	00	00	505	n
Ngera	1,300	0	0	0	0	0	9 9	0	460	9 40	0		1,752	s on
Venezuela	2,345	00	0.0	00	2,401	11 1	25	2,478	4,410	0 4	200	10,078	12.433	5
Other														1
Angola	2,008	0	0	0	0	0	0	0	0	0	0	0	2,008	10
Bahamas	0	0	0	0	0	8		408	1,288	0			1,989	
Brazil	0	0 ;	0 ;	0 0	Bi	0.0		0 ;	9	9	E	1,67	1,677	38 ;
Cortos	9 55	ŧ°	50	0	9 0	0 0		6	ij	g a			335	2 -
Egypt	480	0	0	0	0	0	0	0	0	0		٥	483	-
Fignos	9	00	0 0	0 0	0 1	0 7		0 0	0 8	0 0	8	8	6	ε,
Natherlands	°	Œ	0		22	9		305	90		8	255	122	, -
Natherlands Antalas	0	0	0	0	0	0		8	2,457	0	0	2,557	2,007	8
Noney Perole's Benefits of Chan	1,545	00	00	00	00	00		00	00	00	00	00	9	St.
Pert	0	6	0	0	0	0		0	272	0	8	272	272	
Puerto Rico	0	0	8	0	100	0		ę,	0	212	282	1,134	1,134	
Soan	90	00	00	50	20	00		00	00	00	0 54	142	245	,,,,
Tranded and Tobago	45	0	0	0	0	0		ă	0	0	0	ž	737	~
United Ringsom	7.741	00	0 (	00	21	°į		9	9	0 0	E	2	2	8 ?
Zaro	27	9 0	90	90		i o		90	90	0	0	0	272	. **
Other Western Hemorrhem	e	e	e	е	•	0	0	e	e	0	0	a	0	
Other Eastern Memorbers	1,088	0	0	0	Ä	0	0	1,319	38	0	10	2,061	4,020	135
Subsout Other	18,721	302	8	63	5,454	717	92	7,38	9,339	22	918	ğ	41,128	1.37
Total Imports	28,643	2	623	1,14	8,332	8	82	7,978	14,901	22	1,915	36,678	65,322	2.173
							PAD Detrot II	shot II						
Arab OPEC Algera Subosal Arab OPEC	25	00	0.0	0.0	00	0.0	00		00	00	00	00	88	8 6
Other OPEC														
Ecuador	248	00	0 0	00	00	0 0	00	00	00	00	0 0	00	366	2 12
Venezuela	90	0	0	0	0	0	0	8	0	0	0	8	8	
Subtotal Other OPEC	882	0	0	0	0	0	0	18	0	0	0	58	917	Ö

proving was leaded and a second	Source	O Courts	8	Shed Shed	Gusclino Blending Campo Rosth	Finished Motor Gasalino	23	Karo-	P. P.	20 20	Special	Pice Pice	Place 900	Protes Protes	forsi stant
		1	1					PAD De	900		-				
	Buzel Carusta	6.346	040	٩	0 4	0	0	0				•			
	Filmos	9	90		00	e c	0 0	06	2,	6	2	136	3,826	10.571	360
	Novay	2226		00	00	00		00	0	00	00	06	06	0 000	9
1	Span Invest Vacantee	0		0	0	0	9 6	0 6	00	0	0	0	. 0	199	9 2
	Other Eastern Horrscopen	9 4		a	۰.	0	0	0	0	9 6	0 <	0		۰,	0
	Subtosal Othar	11,647		22	00	0 m	00	00	300	05	0 (	8	: 2	8	R E
	Fotal Imports	13.045	2,463	5	0	916	۰	a	36	5 59	3 8	9 2	3,481	16.294	ŝ ŝ
# 1	Cab Coac							PAD Das	11 25						1
# 1	Alrean										-	-	-		
		550	00	00	ã o	00	00	0 6	00	414	243	1,889	2,584	6,151	8
	Sact Araba	ě	a	0	0	0	0	0	00	334	00	0 6	٥	8	20
	United Arab Emerales	969	0	9 0	00	0 6	00	0	0	0	0	0		2003	RŞ
	Subsistal Arab OPEC	6,907	0		168	0	00	0	00	200	6 6	0	246	256	is.
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		ē ģ	0 0	a	0	0	0	0	0	o	d	•	•	ě	
		1.918		300	0 (	0 4	0	0	0	0	0	0		ĘŞ	0.7
	* * ***	2.884	0	90	0 0	9 0	00	a 6	0 4	0	500	222	4897	2,815	: 2
	Infiliati Ohar Option	6.208	0 0	1,530	0	0	, 0	0	00	367	00	0 2	163	3,047	ğ
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	ļ	3,541	35	1,377	0	a			, .	2	0		7	7	Ε
Section 1999 0 1			0	0	0		o	0	- 0	9	0 0	P.	1,886	15,428	5
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Section 28 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1	900	0 0	00	0 0	62 1	٥	0		a	2 6 1	ą e	è	307	* :
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	1	22877	0	40			۰.	1 4				۲,	47	2,225	."

Table 18. Imports of Crude Oil and Petrolcam Products by Source and PAD District, September 1984 (Thousand Barrels) (continued)

Source	Outle Outle	2	Unifo Shed Outs	Georgia Benday Compo- nents	Finshed Motor Gascine	13	91	Post Post	838	Special	Other Pred-	Protein Protein Protein	Total Petro- leum	Total (Darky Average)
							Pabb	PAD Depret III						
Zare Chor Western	301	0	0	0		0	0	0	0	0	0	0	90	5
Memosphere	0	0	0	0	0	0	o	e	•	5	•	93	,	•
Other Eastern Hemsphare	3,294	0	0	0	0	0	0		g	167	*	360	3 706	4 5
Subtotal Other	29,700	180	3,806	8	916	0	0		742	Ħ	22	6,165	35,885	1,185
Total Imports	51,174	\$	873	727	212	0	0	-	2,547	77.5	2.220	12,701	63.875	2,129
							PAD DA	PAD District IV						
Other														
Canada	866	329	0	0	8	0	0	P.		Ē	48	512	1,512	95
Office Edition Hemisphers	0 8	0 8	0 (	0	0	0	0	0	0	0	0	٥	0	0
nodal char	ē	E)	0	0	8	0	0	R	7	Ē	8	513	1 612	S
Total Imports	886	88	0	0	8	0	Ð	ĸ	P=	8	\$	513	1,512	8
							PAD District V	Shict V						
Other OPEC														
Indonesia	4,529	0	0	0	8	n	e	on	132	0	313	225	5,094	170
-	9	0 0	0 0	0 (	0	0	0	0	0	0	67	63	67	64
		•	b	D	8	83	D	о	25	0	38	ğ	5,161	172
Other														
l	0 6	9 6	9 6		g	0		N		0	0	157	157	17
Canada	419	300	9 6	эе	o ş	0 0	0 6	0 5		0 9	0	0 5	0	-
	•	6	c			• •	9 6	9 0		2 0	1	8	919	5
Mexico	o	ev	0	0	0	0	0	9 6		0 0	9	£	8	E
Netherlands Annilas	0	0	0	6	0	0	0	0	0	0	q	3 0	3 =	9 0
People's Republic of China	0	0	0	712	343	0	0	0		G	e	1000	1 056	8
Span	0	0	0	0	0	0	0	0		0	0	-		3 -
United Kingdom	0	0	0	0	0	0	0	0		0	0	0	0	c
Other Eastern Hernsphere	Ð	8	0	0	g	55	0	8		0	8	403	40)	16
Sublidial Other	416	338	N	712	199	5	0	ä		40	8	2.188	2082	60
														•

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Total Spirit

Total Petro-Secret \$47.099

Total Production

1,472,552

1,794 4,197 0,189

2.883 5.388 20.432 17,708 86,787 33,160

2,581 300 1,817 589 86,710 71,800

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	85	8	Obs.	Gasolne Blending Compo- nama	Frished Motor Gasolne	42	Karo	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Pess Over Pess	Special	Pred-	Ford- ucts	Pero-	Total (Chah) Average)
							PAG	PAD District I						
Total Imports	244,397	4.184	16,050	11,155	64.579	14,120	2,174	84,356	169,939	2,652	14,721	355,640	610,336	2,228
							PAD Demot II	met 11		***************************************				
Alberra	400						ĺ					ı	ĺ	
Kuwat	188	00	00	00	00	00	00	0 4	01	0	٥	0	7,129	8
Saudi Araba Concessor	2,291	0	0	0	0	0	00	00	00	00	06	00	199	-
Substant Area OPEC	11.689	0 0	00	0 0	0 e	0 0	00	00	0 (	0	0	00	2,069	0 00
Other OPEC							•	•	•	D	0	0	11,689	2
Coundor	2.461	o	-			•								
Indonesia	0		0	0	0	0 0	0 0	0 0	0 0	0	0	0	2,461	8
		0	۰	0	0	0	0	9 6	> <	00	0 4	0 0	0	0
Moderate		01	808	0	0	. 0		0	00	00	00	9	200	- 3
School Other Coffic	11.007	0 6	0 1	0	0	0	0	22		0	9 0	23	429	ñ.
		2	STATE OF THE PERSON NAMED IN	0	0	0	0	88	0	0	0	520	11,895	4.5
Other														
ĺ		0 0	0	0	0	0	0	0	0	0	0	•	•	•
Pari	0 0	00	200	0	01	0	٥	0	0	0	0	218	2.0	0 -
i	66,542	36.659	2.600	o g	9,	00	00	0	0	0	0	0	۰	. 0
ofuoc	1,957	0	0		0	0	0	80	1,044	3,739	E.	49,065	114,626	ź.
Prance	0	0	0	ь	0	0	0	0	0 0	0	8	3	1,057	1
Mothodisads	34,822	0 1	0 1	0	٥	0	0	0	0	0			34.832	8.5
	100	00	o e	0 0	0 0	0 (	0 1	D	0	0	0	0	1,044	•
Peru	222	0	0	0	0	0	00	> 6	•	D t	0	0	1,076	•
Spen	0	0	0	0	0	0		0	0	>0	00	0 0	222	
opening and longs	927.0	0	0	0	0	0	0	0	0	0	0		5.750	' *
Ober Weston	2000	-	0	0	0	0	0	0	0	0	-	- EN	2.000	
- Josephore	0	0	0	o		c		•	٠					
Other Eastern Hemsphere	1,083	8	0	0	0	0	0 0	- 0	0	00	0 1	01	0	
Subtotal Other	114,101	38,851	2,917	7.5	1.162	0 0	0 0	9 700	1	200	~;	ev i	1,085	7
tal Imports	137,428	39,661	3,120	22	1,162	00	00	2,415	1,64	3,729	2.5	49,555	166,409	88
Canal Ones			İ				PAD Desmet III	net III						
Albria	32.130	c	245	450	•	•	•	1	:					ı
rac	2.788			į.	0	> 4	> 0	8	1,410	2,983	6,821	11,777	43,887	Ď,
Kuwat	5,098	0	• •	0 0	0 6		> 0	0 0		0	0	•	2,763	0
Ostar	1,487	0	0			0		0 0	4,019	01	0	4,019	9,117	S
Sauth Arabia	70,440	0	0	0	0	• •		> <		0 0	01		1,497	10
Jinted Arab Emirabes	18,258	0	780	a	e	200	10	> 0	2000	>	0	1,013		28
Subsotal Arab OPEC	000	•		,										

Source Other OPEC														
	Crocks	8	dia.	Glasolma	Finched	¥	Ş.	B.J	Please I	Special	a l	Total	Total	50
	ä	3	8	Compo	Casome	ŀ	ĝ	8 8	8	Naphthas		9 9	in m	Average)
							PAD Demot III	enet III						
	10,318	0	0	0	0	0		0	٥	0	٥	0	10,316	
	10,343	0	•	0	0	0 1		0 (	0	0	٥	0	10,343	
	19,221	1,356	8	0	0 (	0 1		0 1	2580	400	303	5,133	24,354	
	200	00	0.00	0 0	9 0	0 6		0 0	9	0 (	-	9	1,082	
Vonemals 4	691.00	o a	A 600	280	2,220	0	0	10	2.156	8	8 20	1000	29,060	- +
her OPEC	124,405	1,356	7,461	ğ	2,280	0		n	2,002	99	25	18,279	142,666	2 25
	9	•	•	•		•				•				
	3000	0 0	0 (	•	0 0	9 6		9 6	1	9 4	9	9	8,692	
Debroom	ve	0 6	8.413	'n	0 0			9		0 6	0.00	9 6	989	
	260	0	0	0	0			0	0	a	10	9	340	
	0	o	0	0	1,386	0		a	38	360	22	1,924	1,894	
Canada	24	0	0	0	0	0		0	0	266	7.1	722	339	
Congo	3,876	0	0	0	0		0	0	0	0	8	S	3,876	14
Egypt	674	0 (		0 (	0 4	0 1		0 (	0	0	0	0	674	
France	00	0 0	8,	0 0	0 6	0 0	8	0 0	0 0	00	20	23	2	3
	17 007	100	00000	è	9	, 8		8	900	9 6	,	950	070	8,
١,	-	0	9	91	0	90		i	3 °	300	3	540	2000	ř
	0	22	2,120	0	1,289	0		222	174	36	88	4,091	4,001	
ALL LANGESTER AND	026,01	8	0	0	0	381		0	0	0	0	381	11,281	4
Oman.	1,116	0 (	01	•	0	0		0	8	0	0	Š	1,789	
Proplet a meputate of certain	9 6	9 6	3	3 '	9 6	1		0 1	9		8	ž.	1,501	
Puerto Rico	0 0	0	ge	9 0	9 0	9 0		9 0	ě°	2007	0.0	0.00	2004	
Romarfa	0	0		0	8	0		0	0	228	9 6	, in	200	
1	0	6	218	0	0	190		0	6	2	ů	438	488	
and Tobago	12,094	0	0	e	0	0		0	0	0	32	20	12,110	•
Turking		0 (	9	0	0	0		0	0	0	•	0	0	
	2	9 6	9 5	ā	100	5		8	9	198	200	1,437	45,606	-
Zare	4,292	0	0	0	0	0.0	00	0	0	0	90	80	4288	99
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amendana	20 004	0 6	6 010	9	0	900	0 0	13	2000	1000	1	0000	0000	
re	226,279	1,797	21,942	1,859	3,546	1,555	w	828	6,483	4,969	4,508	57,772	286,052	1,044
Total imports	192,897	3,152	40,529	2,807	5,836	1,888	*	1,000	19.845	5547	12,622	96.365	628 128	2114
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							PAD Detroit IV	that IV		į				
Other	1	1			1			1						
	9 0	0	0 0	00	ŝ	0 0	0 0	90	9 0	4 6	ž °	6,107	16,248	3 0

Table 19. Year-to-Date Imports of Crude Oil and Petroleum Products by Source

Source	58	2	g graph g garage	Gasoline Blending Compo- nents	Finghed Meter Gassine	4.3	Series Series	555	858	Special	Other Phod- ucts 2	Total Prod- ucts	Total Putro-	Total (Dask) Averrage)
							PAD Detrict IV	W ton						
Other Eastern Hemsphare Subossi Other	2 0 0	3,401	00	0 0	°§	00	00	3,000	911	0.4	0.58	6.10.	14.740	0.3
Total Imports	8,542	1,401	0	0	8	0	0	1,085	311	*	25	6,107	14,749	Z
							PAD District V	A specie						
Avab OPEC		,												١
andria.	ğ	01	8	0	0	0	0	0	٥	0	0	22	1,187	4
Therefore	9 6	Þ¢	3	9 6	0 0	0 0	0 1	0	01	0	0	282	250	
Subtotal Arab OPEC	ğ	0	18	00	00	0 0	0 0	0 0	0.0	90	00	25.5	388	
Other OPSC														
Equipment	360	0	0	0	0	6	G	0	•	•		•	9000	
Indonesia	39,059	0	1,500	0	1,244	180	٥	360	1.497	100	946	2000	47.000	
Venezuela	ğ	0	0	0	2002	Đ	0	0	٥	0	8	715	1340	•
Segment Other Orbit	40,052	0	1,505	0	1,481	8	0	98	1,487	467	201	6,577	46,629	Ē
Other														
Australia	3,571	452	0	0	2005	ř	•	457	410	•	**			
Brazil	0	0	0	0	0	0		9	9	•	•	1	9.0	2.0
British	0	0	0	0	0	0	0	6	0 0		•	9 6	9 6	•
Carsada	6,259	3,424	151	0	1,031	216	8	511	200	101	9			
France	0	0	0	0	0	0		0	G		8	8	100	1
Malayas	0	0	0	0	150	4		8	8	9 6	3	ŝ	8	B
Mcoco.	0	8	0	Đ	0	0	•	:	8 5	9 0	,	ŝ	ŧ.	
Netherlands	0	8	0	0	0	0	0	6	0	u	9	1	602	***
Netherlands Amilion	0	0	2	0	0	8		0	180	9	130	340	200	8
Norway	0	0	0	0	0	0	0	6			9.5	,	9	
People's Republic of Class	0	0	400	5.937	2,116	0	0	0		5	00	7 607	1 800	98
Puerto Rico.	0	0	0	0	0	0	0	238	6	•	ŝ	000	100	
Romena	0	0	0	222	0	0	0	a	G	6	9	900	9 6	
Soain	0	0	0	a	0	0	• •	0			9 6	ă,	3	
United Handlom	0	0	0	0	0	0	•	0	9 0	3	9 6	3	1	-
Virgin Islands	0	0	0	0	0	0	0	0	D	8	0	4	46	88
Hemosphere	0	e	e	e	6	0	•	,		•	•		:	
Ş	2 404	gg.	1 000	216	900	200	•	i	1	,	1		216	
Subtotal Other	11,234	1,901	288	417	3,788	16	3	Š	2274	675	1,732	21,875	33,109	12.8
Total Immosts	200	0.00*	- 400											

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Table 20. Exports of Crude Oil and Petroleum Products by PAD District, September 1984

			Pace	Dieum Administratio	Pergisum Administration for Defense Districts		
Commody	-				N	>	Total
Crude Oil (including lease condensate) 1	0	ğ		g	٥	4,412	4,845
Valual Gas Liquids	83	ņ		213	4	52	787
	0			0	0	0	-
Gacac	*	12		615		185	786
				0		æ	-
	e	22		283		ā	614
	92	**		202	0	22	120
Pobulary	0			0	0	0	
Firethor Mairr Gospins		**		to	0	п	48
	0	0		0	٥	0	
Geograph Type Jet Flael	0	0		20	0	22	22
	49	0			0	(6)	40
lo lo	109	8		451	0	22	599
	219			2,327	0	3,885	6,430
Sabitha < 400 Des. for Petrochem, Feedstock	35	=		ŝ	,	4	111
They Olic > 400 Day for Pertochers, Fredstock	60	17		224	0	500	99
Sparial Nanhthas		4		13	0		ä
horante	2	22		257	84	8	370
	*			27	0	9	27
	245	282		2,337	n	3,067	5,884
		2		98	8	8	4
	2	- 64			0	*	30
1	P	50		6,576	12	7,446	15,059
ptal Exports	735	Šį.		6,576	7	855,11	210,01

Departs of other two personal products in control or an emission and control or administration of the control or administration of the personal pulsar for course or a single or and the control or administration or an emission or an

Table 21, Year-to-Date Exports of Crude Oil and Petroleum Products by PAD District, January - September 1954 (Thousand Barrels)

			Petroleum Admenetral	Petroleum Administration for Defense Districts		
Centinger	-	-	=	2	>	Total
Orudio Oil (including lease condensexit) 1	0	4,377	93	۰	45,683	29000
Natural Gas Licitate	****	****	4.600			
Brossova Divi	,	014.4	6,0,0		1,497	12,337
Constitution Plant and address over the party of the part	9	3	0	6	0	899
CASANIA MITTERAM GASOS	344	3,761	6,079	7	1.467	11 610
Ethane	-	1,250	8	0	9	1 250
Propane	2	1,109	5,048		100	6.921
Northeal Budgaro	178	711	1,032	90	989	2.010
	0	679	0	0		979
Punished Motor Gazolina	144	4	367	o	248	4 369
Nephtha-Type Jet Fuel	(2)	С	500			900
Kerceene-Type Jet Fuel	176	138	452	0	407	1162
Kalceara	25	0	e	o	2	96
Dahllato Fuel Oil	741	20	3,354	18	9,659	10.716
Hospital Fuel Of	1,084	0	16.140	c	29.264	46.069
0 0	493	99	190		170	1,752
Other Only > 400 Deg for Perocham Paedstock	n	253	3,388	0	460	4 114
Special Nephrins	200	28	266	e	251	999
THE WORLD	909	828	2,589	fg.	350	4.172
Water	Ş	4	256	0	33	308
Petitional Core	2,004	2,277	27,077		22.22A	60,000
Authority	47	200	02	*	-	150
Mecelaracus Producis	137	92	108	-	OC.	ORC
Total Proguot Experts	6,246	7.626	61,120	9	54 202	139,247
Total Exports	0,245	12,005	61.129	29	109.800	180.312

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phonores	0	ε	0	0	0	0	000	0		0	0	3	-	8
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w Zestand	0	0		0	0	0	3	3	63	0	0		-	Ξ
Gogradus	0	12	0	0	0	0	0	ε	0	0			12	8
objects	0	0	0	0	0	0	0	ε		0	ŝ	3	Ξ	ε
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18.8	o	0	a	0	a			268	0	233	0	(FE)	505	
- And	0	8	0	0	0		8	40	8	0	100	2	100	30
Nemath	8	8	3	0	8		œ	ŭ	r	288	-	19	1,159	
an islands.	30,863	2	0	0	o			9	0		0	559	35,499	138
St Germany	0	90	0	0	0			£	n		989	80	1,094	,
SOSTANT.	0	0	0	0	0			8	8		0	689	640	
	7,881	105	g	0	151		8	20	60		*	163	9,385	Z
stal .	50,065	200	1263	1,256	12.728			6172	338	53,600	150	6.854	016 081	ge

To Chanda on the world of the property of the

24. Stocks of Crude Oil and Petroleum Products by PAD District, September 30, 1984

		AND Disposet	-		λď	AD District II	_				PAD Detnot 18	there is			GVd	DA9	
Commodity	Coast	de la faction de	Total	Appa tach-	F	Menn. Whoc. Dake	Kans.	Total	Texas	Texas Gust Coast	Costs.	No La	Naw	Total	Packy Mit	N Page	Uhtted Styles
rude Oil (lact, lesse condensate) Petrony Task Farms and Pacinie Task Farms and Pacinie Stringer Petrokem Recovel Stringer Petrokem Recovel Total	111111	134114	10,982 1,570 80 0 12,412	1111111	111111	111111	1111111	55,270 55,270 5,585 0 0 0 0 1,585 0 0		3111111	111111	1111111	3111111	47,938 89,787 16,844 451,069	2,141 2,314 1,273 0 13,343		95,108 21,086 431,089 77,929 726,400
Dust Stocks, At Obs (exec. Grade OS) Redensy Dust Termonic Popular Monard Gas Processing Plant Total	87 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2112	28,648 28,695 28,695 187,423	ğ   1°	£ 11 <sub>8</sub> 1	§ 11 8 1	6,460 1.1.096	64,820 86,905 35,850 1,802 189,377	1511	3,869	2 1 1 2 1	21181	2511251	138,179 20,865 41,313 6,166 6,166	3,042 2,581 213 8,845		312,786 322,156 113,180 5,665
Professional Plus Professional Professional Professional American Plush Professional Casa Processional Plush Polish Polish Plush Polish Polish Plush Polish Polish Plush Polish Polish Plush Polish Polish Plush Polish Polish Plush Polish Polish Plush Polish Polish Plush Polish Polish Plush Polish Polish Plush Polish Polish Plush Polish Polish Plush Polish Polish Plush Polish Polish Polish Plush Polish Polish Plush Polish Polish Polish Plush Polish Polish Polish Plush Polish Polish Polish Plush Polish	F11*1	° 11" 1	52053	°ıı°ı	81191	8 1 1 2 1	∯ 1 1 € 1	288 1381 319 2882	ž 1184 1	2 1 1 2 1	8 118 1	2 II 8	, 11 <sub>±</sub> 1	3,585 1,354 1,154 6,587	2.888	F-0-0 8 8	8 25 1 1 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2
quelled Petroleum Gases Perferey Bisk Termeal Pestern Maharal Gas Processory Plant	81181	z 1 1 5 1	88 <u>7</u> 25	ž 11°1	2.407	8 118 1	ž 1 1 ž 1	3,805 22,392 6,185 1,480 33,642	\$     \$	1,065	2611 <sub>8</sub> 1	8 1 1 2 1	g 11g 1	3,054 60,076 5,629 4,845 73,604	25 t 24 t 50 0	\$80.25	85,105 13,867 5,867 5,862
Refront But Tremal But Tremal Natural des Processing Plan Total	# II ° I	°ıı°ı	80008	11 1	- 1181	21101	1181	1.000 1001 1001 1001 1001 1001 1001 100	°11 <sup>8</sup> 1	° 1 1 \$ 1	١١٠١	0 1 1 1	1151	8 596.1 991 15.970	00848	00000	46 15,023 3,377 1,228 20,318

NAME TO CONTROL OF BOTH OF THE OFFICE 
	ď	PAD Dignet (	-		SWC.	PAG District II	-				PAD Dated III	100			0,40	9	
Commodity	Coast	Appa- lach- an #1	Total	Appa- tachs an n2	F. Kg.	Mon. Wae.	Cista Mo	Total	Torest	Coest L	La Gulf No La. Coast Ank		New	Yotsi	Rocky R		States
Motor Gasoline Blending Components Rafriesy	5,303	8	6,401	S	9009	ş	1,818	7,865	1,358	9.727	5,834	8	38	17,443	1,500	6003	39,14
Bulk Terminal	1.1	1 1	80		L		: :	8 2	1 1		, ,		1.0	80		98	957
Total	į	1	5,428	į	ı	ı	ı	8,003	ı	ı	ı	ı	ı	18,043	1,504	7,107	10
Avation Gazeline Blending Components Richary. Total		0	00	•	8	0	8 :	96 95	۰,	2	Ð 1	۰,	۰	9.5	00	88	316
Total Enished Motor Garoten Retnery	6,359	83	6,693	110	9889	1,017	3,036	10,091	2,178	10,375	5,200	1,071	213	19,038	1,938	7.316	43.976
Appline	П	111	14.445	111		111	111	17,300	111		111		111	222	4,600	19 640	
Finitied Leaded Motor Gasoine Refreey Bulk Termusi Pegine Total	2,350	2111	2,489 18,017 5,227 26,713	# 111	111 248	8111	\$111	15,804 7,965 28,348	8111	\$111	8 111	8,11	107	8,586 2,000	2.108 888 788.5	5,744 000 0759	19,839 45,804 22,471 87,914
Philipsed Unisaded Motor Gasoline Refinesy Box Terranal Presine	3,000	£111	3,124 21,418 9,216 33,758	8	375	111	2 111	5,312 15,921 0,335 30,368	8111	\$111	50,111	ž 111	ž 111	25.25 25.25 29.23 29.23 29.23	81.588	5,381 1,080 0,800	24,127 10,28 10,542 106,546
Falshed Aviation Gazoline Ratinory Bulk Termod Pipeline Natural Gas Processing Part	811	11	8 25 20 5	۰،،	8110	° 11°	2°	562.0	F 118	811	3110	°ıı°	°ıı°	88 5 8 5	9000	8880	Files

See footnotes at end of table.

Table 24, Stocks of Crude Oil and Petroleum Products by PAD Cletrict, September 30, 1984 (Thousand Barrels) (continued)

Company   Comp		æ	PAD District 1	-		ď	BAD Distract II	=	-			PAD Denet II	met III			DY4	DVG	
0, 7, 8, 7, 8, 19, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10	Commodity	East Cosst	Agpa- lacht- an =t	Total	Appa- lach- an n2	10 mg	Mmn. Wes.	Kara.	Total	Texas		Coest		Newco	Total	Pez N Rocky	West v Die	United States
Tip   Tip	ropane for Petrochemical Feedstock Us Rolliney Total			9.6	°ı		۰,		ää	- 1	. 1		۰,	0	88	00	00	88
	ropaine For Other Uses Refresy Blick Termon Pooline Maked Gas Processing Plant Total	5 1 1 g 1		748 1,112 2,65 3,667		8 1 1 8 1	8 11 2	g 1 1 g 1	15,887 3,510 912 22,171	8 1 1 8 1	1181	51181	* 11 = 1	"115	1,260 2,585 1,864 36,423	\$2582	202 0 25 136 136	4,341 7,784 3,282 8,788
# 1, 7   F 1   6   7   E 2   8   8   8   8   8   8   8   8   8	ormal Batane For Petro, Preed Use Refresty Total	١	۱	00	۰۱	٥١	8,	۱	8.8	°ı		٥	- 1	۰۱	00	10 10	66 64	2.2
# 1	ormal Butane For Other Uses Referred Data Ceremal Popules Monal Gas Processing Plant	81181		P 2 ii 8 3	<u>g</u> 11 , 1	8 11 2 1	, M 11 1	ğ , , <sup>5</sup> ,	2,789 603 241 5,006	£ 1181	¥ 1181	81121	8 11 2 1	¥ 11 8 1	25.2 19.2 19.2 19.2 19.2 19.2 19.2 19.2 19	E-288	280.051	2,050 1,769 1,769 21,519
	an Processing Plant	١١٠١	°11 1	0804H	11 1	81181	8 11 1	ž 11 g 1	2,143 2,143 2,143	81161	21121	ğ 11 g 1	۴ ° .	. 11 <sub>2</sub> 1	502 202 203 203 203 203 203 203 203 203 2	X.5.2	273	200 E E
Lighter 2,239 121 3,577 of 2,507 105 (of6 69 756 551) Lightwen Cer Der, 2,111 4,245 0 2,529 14 50 273 500 500 551 500 500 500 500 500 500 500	er Hydrocerbons and Alcohol Retreey Total	= 1		11	١	£ 1	۰		120	-	22	es I	٥	0	āā	00	40	325
	Relativity of the Relativity of the Relativity of the Relativity of the Relativity of the Relativity of the Relativity of the Relativity Cast Original Origi	3,236 2,411 5,076 1,037	272 272 88	3,357 2,415 5,363 1,309 12,444	80242	2,857 2,150 5,443 2,823 13,282	55 4 55 4 68 5 4 5 4 68	1,055 1,731 4,849	4,095 2,715 7,532 4,140 16,482	28 4 4 65 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	7,580 6,537 9,773 2,727 27,273	5 511 2,387 7,735 3,425 19,059	20885	#8%°5	14,061 9,827 18,940 7,350 50,231	2007 2007 2007 2007 2007 2007 2007 2007	4,882 3,516 11,124 5,000 24,622	26,883 18,103 18,501 16,501

	6	AD Detnot	-		M/d	PAG District II	_	-			PAD District III	III tou			940	8	
Commodity	East Coast	Apple of the state	Total	Apple an A2	ind.	Minn. White. Date	Kans, Mo s.	Total	Texas	Towns L	Coast P	2 ×	New	100	Pecky ≥	West v	United States
hopkho-Type Jet Fuel Ridney Black Termed Black Termed Popule	ş 1 1 1	8 111	8 8 5 5	111	â	ة 111	ă 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1118	8 111	\$ 111	8 111	å	2,080 156 4.78	E 2 2 2	55.55	3850
Refusery Refusery De Marchana	1,027	. 111	7,28 1,28 1,130 1,130	8 : : :	\$111	8 111	8 1 1 1	1,871 5,392 2,612 9,975	÷ 111	97111	28	9 111	ž   113	6.547 1.919 12.887	E 88 5	2,883 1,747 681 5,261	15,547
Petrony But Yerman But Yerman Petrony New Yer Service New Yer Service Total	81101	g ° .	3,258 182 0 0 7,850	°ıı°ı	21101	8 1 1 1	É 11°1	1,300 178 2,417	8 . " 1	81101	8 11°1	8 11 1	ž   1 0	24. 41.	02002	20008	2722 8427 8429 5438 5438
Netney Peters But Yennes Peters Peters Netnes  £11 1	g ; 1 ° 1	5,529 43,614 5,408 0 57,549	8,1°1	1 1 283	11 0 1	3,286	11,316 18,494 8,930 0 38,610	511°1	10,002 1 1 1	å 11°1	81101	£ 11°1	6,303 6,303 8,407 32,507	1,500 1,500	5,180 4,651 1,351 0 11,162	40,749 73,868 28,596	
eeslous Funs Ota Bulk Termosi Populne Total	2   1	8 111	22,824 25,806 5	8	15111	g	\$ 1 1 1	2,056 1,441 0,057	8   1	11 1 484	20 11 1 1	ž 111	* 	3,020	2008	1,680 1,680 8,088	17,890 28,965 146 46,971
Asphiths < 400 Deg. Petro. Perditock Referey	řě	00	# #	00	88	00	2.2	83	22	£ £	475	2.2	00	33	00	2.5	1,850
Other Olis > 410 Deg. Petro. Feedstock Rutesey Total	44	00	4.4	00	88	00	00	22	315	8 85	88	0.0	00	1,467		23	1,609
			l														

Table 24. Stocks of Cruice Oil and Petroleum Products by PAD District, September 30, 1984 (Thousand Barrels) (continued)

	٦	PAD District	_		á	PAD Despect II					PAD Dremet III	In the			CVG	DAD	
Commodity	Coast	Appa- facts- an #1	Total	Apple- lachs an #2	in ind	Men. Wes.	Kana, Mo.	Total	Teases	Court	La Guf No La. Coast Ark	No La.	New	Total	Placety L	West v	United States
Special Naphthas		1	1												8	Source	
Bulk Terrend	9 1	5	2 3		136	0	8	83	8	1,120	901	138	۰	1,434	æ		2,011
Natural Gas Processing Plant	0	0	0	0	0	0	0	!0	2	ı°	0	١	ı	Z 2	00	88	766
	ı	ı	5	ı	ı	ı	:	438	ı	:	ı	ı	í	1,632			2
Parfray Certinal	511	8 11	2,013 1,172 8,185	° 11	8 1 1	0	1 673	1,403	8	5,573	1,847	1 587	۱	267	800	803	9,758
Waxos	0	2	22		8	0	4	21	ū	224	2			4	5 5		12,530
	95	0.0	98	00	989	. H3	95	7. 0		1 6	950	1 936	0	1,488	ō. 8	39	609
and Road OR			1	,	1		2	2	0	di di	98	90	0	95	60	1,466	4,967
	311	11	2,180	11		3	ĘII	2442	ş 1 1	ă	ŧ.,	8	B	8/88 300 8 505	174	80,1	5,426
Macetameous Products Patreey Butz Toswal Posters	₹ 11	2 11	82.0	- 11	ş 1 1	* : :	9	85.5	ē,	8,	8	В,	۰,	96	ã"	126	8.6
Natural Gae Processing Platz Total	°ı	١	20.5	°ı	٥,	°ı	ů	e a	~ ,	١١	ů;	~;	0	27 - 20	00%	8,08	200
Total Stocks, All Outs	1	1	190,835	ı	ı	ı	ı	250,505	1	J	1	1	;		30,178		1,514 182
1 (Polados 23 872) Browner harmon of abonesic strains	1 000	1	190,835				ı	250.505	ı	į	1			;	863,193	863,193	863,150 30,178 161,361

(Thousand Berreis)																		
	3	From 1 to			From 1 to	g			From III to			From	Frgen IV to	-	From	From V to		
Carmody	-	=	>	-	=	"	>	-	-	Δ.	,			>	-			2
	1	'	ľ	'	١,	١,	'						۰				100.00	•
Grade Oil (Tanker and Barge only)	ř	9	р	э	9						,	,	•				,	, ,
Petroleum Products	1,873	g	0.0	3,176	9,00	g o	00	 2 °	1308	0 0	30	128	2 5	90	0 0	0 0	g o	00
Condition Properties Contact	9 0	• 0		1168	8000	r			7.666	0		ě	3	0	0	0	0	0
1	9		0	0	0	0			ä	0	0	0	٥	٥	0	a	0	0
Motor Gasobse Blending Components	0	0	0	0	0	0			8	0	0	0	o	0	o	0	0	0
Anaton Gazoine Bending Components	0	0	0	0	e	0			0	0	0	0	0	0	0	0	0	0
Fruited Motor Grapine	6,003	0	0	1,223	25	ğ	•		5225	0	eg d	E.	٥	920	۵	0	0	0
Finshed Leaded Motor Gaspine	2,965	0	0	36	867	2			7,000	0	Ş	8	a	427	0	0	0	0
Premise Unisable Motor Gasoline	3,064	0	0	r.	ij	3			2,707	0	413	88	٥	989	٥	0	0	0
Finghed Aviation Gasoline	2	۰	o	a	0	12			Ŗ	0	0	0	0	0	0	0	0	0
Naptetia-Type Jet Foel	8	ę	0	91	8	0			R.	0	270	3	0	2	0	0	01	9 0
Kerosene-Type Jet Post	313	0	0	8	54 '	ž.			ŝ	0	91		9 (	8.		9 0	0 0	0 0
Kerosete	8	0	9	1	9	9			,	9 1	2	9		9	0 0			0 0
Dividate Foel Of	K.100		9 (	9	ŀ	8			9	> 4	8'	ľ	9 6	3	9 6	0 0	0 0	0
Managing and Other Clin Delta	•	,	9	3	,	,			,	,								
Contents	19	8	0	2	0	•	٥	55	61	0	0	0	0	0	o	0	0	a
	0	0	0	0	0	0	٥	122	ō	0	0	0	•	0	0	0	٥	0
Lubecours.	0	22	a	R	h	0	0	8	200	e	÷	o	0	a	a	a	9	0
Winter	0	0	0	0	e	0	a	10	0	0	0	0	0	0	٥	0	0	D
Leading and Bread Oil	0	0	0	110	٥	0	0	ğ	101	۰	0	0	0	0	۵	0	0	a
Mescalaneous Products	8	g	0	102	22	0	0	ts	22	0	0	0	0	0	a	•	G	0
Total Al Products	2,020	186	0	3,176	8	2,199	a	25,040	20,768	0	1,543	1,825	256	928	1,876	0	16.921	0

Table 27. Movements of Petroleum (Thousand Barrels)

	Flore	Flora I to		Ro	From II to			Rom If to	2			Phoen IV to		from V to	9
Carmodiy	-	2	-	Ē	,	2	-		N	٨	w	×	>	=	W
Dentones Riss	0	0			225	0	0	1,218	0	0	128	114	0	0	0
	e	0	1.150	a	1355	F	1,749	7,446	0	0	500	ğ	٥	0	0
Motor Geneley Standers Communical	e				•	0	•	•	•	٥	٥	٥	٥	0	0
Acceptor Complete Rightfort Components	0	0			0	0	0	0	٥	٥	٥	٥	٥	0	0
chice	4.205	•	•	21	173	1,352	34,057	14,162	a	25	Š	0	8	0	0
Gatoline	2000	0	~	z	8	712	11,836	6.820	٥	Ŗ	200	٥	427	0	0
Ciniondad Motor	9 202	e	N	228	541	3	22.22	7362	0	+11	ä	٥	200	0	0
	2			0	0	ħ	8	138	٥	•	٥	٥	0	۰	0
Twee let Flad	0	0		0	8	0	419	8	0	36	g	٥	116	0	0
Tune let Fluel	1.40	0		×	8	ä	7,273	82	0	9	*	•	3	۰	0
Variation	*	0		0	0	0	ň	0	0	0	0	٥	0	0	0
	1,520		**	222	#	8	13,539	4.387	٥	8	8	۰	951	٥	0
Bearing Suit Oil	0	•		0	0	0	0	٥	0	0	٥	۰	۰	٥	0
	•	۰		×	0	0	0	n	0	٥	۰	٥	۰	٥	0
Total	6,105	۰	25	2,540	1,746	2,199	97,360	20,45	0	1,50	1,829	736	828	0	a

See footnobs at and of table. Total All Products

Table 28. Movements of Crude Oil and Petroleum Products by Tanker and Barge between PAD Districts, September 1994 (Thousand Barrels)

	u.	From 1 to			Page 1 to				From III to	9				Prom V to	
Optimodity	-		>	-		>	-	8 8	N See	Š₹		>	-	=	=
Crude Oil	22	0	0	0	۰		ů	°	0	0	٥	۰	1,876		16.881
Petroleum Products	2,768	8	0	212	198	0	17,683	1,546	2.883	13,354	2311	4	q	ď	9
Liquefied Petroleum Gases:	0	۰	0	0		0	100	٥	0	116	0	0	0	0	0
Untrathed Oils	õ	0	o	0		0	8			131	334	٥	0	0	0
Motor Gasoline Blanding Components	0	0	0	0		0	176			174	8	٥	0	0	0
Finahed Motor Gasoline	2	0	0	347		٥	9.881			8,723	613	a	a	c	٥
Finished Leaded Motor Casoline	907	0	0	8		0	3,005			2,980	358	0	0	0	a
Printhed Unleaded Motor Clascins	741	0	0	147		0	6.825			5,753	366	a	۰	0	0
Enshed Avaton Gasolne	0	0	0	0		0	238			138	*	0	0	0	a
Naphtha-Type Jet Foel	8	3	0	83		۰	8			250	0	0	۰	0	0
Kercesne-Type Jet Fuel	12	0	0	a		٥	2,146	8		1,725	271	a			a
Karopane	5	0	0	0		0	ä			2	٥	٥	0	a	0
Dabitate Fuel Oil	ŝ	0	0	2		۰	3,153			1,598	538	0	۰	0	0
	0	0	0	8		0	340			272	0	a	a	a	G
Naphtha and Other Oils for Petro Feed Use	6	8	0	7		0	101			0	13	0	۰	0	0
Special Naphthas	0	0	0	۰		٥	185			167	142	a	0	c	•
Understates	0	ts	0	×	32	9	900	0	450	141	2000	42	0	a	90
Waxes	0	0	0	0		0	4			٥	0	0	0	a	a
Asohat and Road Ck	0	0	۰	116		0	145			96	400	0	0	0	0
Mecelaneous Products	a	100	o	۰		e	Q			6	0	c	٩	0	9

Table 23. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker and Barge between PAD Districts, September (Thousand Barrels)

	ă.	PAD Datect		ď	PAD Distinct	-	ď.	PAD District III	59	A.	PAD Detroit IV	2	ř	PAD Dubot V	>
Commodity	Recepts.	Span month	Net Recepts PACD 1	And the party of t	98 mess	Aucepta PADD II	Rucepts mb PADD III	Ship ments trom PACO III	Net Recepts PADD III	Recepts arbs PADD N	Shp ments hoom V	Receptor PADO	Recepts mto PACD v	She- mens from PADD v	Net Recepts PADD v
Crude Oil (Tanker and Bargo only)	1,878	22	1,857	22			16,881		16,881		0		0	18,757	-18,757
	70.010	0.000	091.00	20.00	14.975	28,188	9.794	108.354	-88.460	2 166	3,555	1.356	9.510	GP CP	9.479
WITHOUT IT COUNTY	0	0	9	1 446	1.077	200	1.121	1,218	-197	9	949	-945		•	
Named Substitute Contra	3 003	0	3.023	8,545	6,585	200	5,208	9,303	1100	7	1,343	-1.272	0	0	
Understood Oile	909	2	8	344	0	ž	0	740	-760	0	٥	0	0	0	
Motor Garolino Bloodino Comments	174	0	174	8	0	8	0	Ř	702	0	0	٥	0	0	
Accepted Garoline Blancher Components	٥	0	0	0	0	0	0	0	0	G	0	0	0	٥	_
Control Opposite Spinster Composition	45 197	8009	20,128	21,375	4,359	17,016	1,778	59,582	-57,784	1,352	1,207	145	1,466	0	1.446
	15.246	2,985	12,281	10,376	1,970	8,462	867	22,398	155,15-	712	220	8	998	0	8
En chad Disasted Meter Sassins	29.921	3,004	28,857	10,999	2,426	8,573	211	37,154	-36,253	033	637	202	650	0	620
Enchad Leather Catolina	'n	0	267	8	î	12	0	387	7007	27	0	27	0	٥	
Mandalan Tuna Jat Filel	513	130	Ħ	ij	38	141	8	7	989	0	179	25	360	۰	×
Vaccous Two let find	9.552	213	9.209	2,622	929	1,946	22	11,873	-11,841	3	8	473	213	٥	213
Various	200	8	539	8	0	8	0	272	r	0	0	٥	0	0	u
Designation Start Cal	18.987	2,159	14,828	7,125	ä	6,181	3	21,594	-21,150	308	516	-308	4469	0	44
Resebusi Fuel Oil	077	۰	440	0	1	-141	2	ğ	989	0	٥	0	٥	٥	
Nagritha and Other Olls for Pultio														•	
Feedback Use	108	161	ş	3	4	g	8	128	Ŗ	0	D	0	D	9	,
Secret Northflat	18	0	183	ă	0		0	8	87	0	0	0	٥	o	0
	909	27	888	202	R		154	814	927	0	0	0	ş	Ŷ	7
	*	•	ue	a	0		0	•	9	0	٥	0	0	۰	0
Assistant Dowl Oil	286	e	200	401	110	250	0	3	3	0	0	a	0	0	٥
Mescelaneous Products	138	78	8	2	175	•	98	ř	18	a	0	0	0	0	0
Was All Products	80.094	8006	71,006	42,483	14,276	28,207	28,775	108,354	81,579	2,199	2,555	-1,256	2,519	18,797	18,797 -16,278

Table 30, Production of Residual Fact Oil by Sulfur Content, September 1964 (Thorsand Barrels)

	PAL	District C	-		240	AD Deposit					Den C	Market III		Ī	OVO	DAG	
Commodity	Signal Signal	Appala-	Total	di di n	5 5	Men.	8 8 4	Total	Texas	200	ššt	No La	New	Total	Pocky	Nest v	Unsted States
Pessitual Fast Off.  O.51 to 1.00% Sulfur  Geotter Than 1.00% Suffur	25 28 28 28 28 28 28 28 28 28 28 28 28 28	2200	2,562	2088	2883	8008	No.84	5865	8255	1		Sans	www	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0		100	25,827 2,033 8,759 15,035

Table 31. Stocks of Residual Fuel Oil by Sulfur Content, September 1984 (Thousand Barrels)

r'	60	D District		i	PA	E SOURCE CAR		Ī			PAD Dat	100		r	DAG	GWd	
Commodia	-	Асова	ľ	-timbo	)	Men.	Olds.		1	50000	9		1	ľ	Not N	> 000	Daylor
- December 1	Source	the tr	Total	g v	1.89	Whoe.	al of	Total	utand	38	and of	i a	Menogo	Total	Rocky	West	States
Besudual Famil Cill - 0 (50 to 0.30% Suffer																	
Platratry	97	Ħ	94	0	Ŗ	*	0	æ	8	25	210	7	1	372	60	345	1,320
Bulk lemmal	ı	ı	4,809	ı	ı	ı	ı	138	ı	ı	ı	ı	ı	0	٥	٥	4,945
Total	ı	ı	5,249	ı	ı	ı	ı	218	ı	ı	ı	ı	ı	372	6	75	6,265
Residual Fuel Oil - 0.21 to 1.00% Seffur																	
Refracy	1,082	8	1,085	8	2	0	123	9	81	Ř	250	1	٥	1,879	100	1,455	5,227
Bulk Terminal	ı	ı	8,542	ı	ı	ı	ı	8	ı	ı	1	ı	1	1,514	a	282	10,675
Total	ı	ı	9,627	ı	ı	ı	ı	80	ı	ı	ı	ı	ı	3,493	100	1,750	15,902
Residual Fuel Oil - Greatur than 1,00% Suther																	
Refriety	603	33	8	n	8	315	8	1,374	170	3,232	1,004	8	ın	4,487	350	4,487	11,313
BUK lemmal.	ı	ı	9,473	ı	ı	ı	ı	8	ı	ı	ı	ı	ì	1,506	0	1,385	13,345
1000	ı	ı	10,128	ı	ı	ı	ı	2	ı	ı	ı	ı	ı	5,973	350	5,852	24,658

10,125 Source See Explanatory Notes on Data Collection and Estimation — Not Applicates Table 32 Movements of Residual Fuel Oil by Tanker and Barge between PAD Districts, by Sulfur Content, September 1914 (Thousand Barrels)

		From I to			From 1 to				From III to	8				From V to		
Commodity		=	>	-		>		No.	g s	2 E	-	>	-	-	=	
Residual Fuel OI 0.00 to 0.10% Sufur Greeke Then I 00% Sufur	0000	0000	0000	goog	4004	0000	No SE	0000	Sobe	120012	0000	0000	0000	0000	****	

Source See Explanatory Notes on Data Collection and Estimation

J				
Country	0000	81120	Conster Then 100%	Tons
			1000	
Arab OPEC				
Algera.	200	386	0	96
l	9 6	0 0	2 6	Š
damen	• 0		30	9
	0	0	0	0
Sauch Arabas	0	0	0	0
Jacob Acab Emission	0	۰,	3	25
Sections was under	8	1	000	Sec.
Other OPEC				
Eculdor	0	0	375	178
Gabon			n į	0
ridonesa		8 *	g e	Ž.
101	÷	. 0	• 6	949
(Approximate	1000	1,089	2,880	4.757
Subtotal Other OPEC	1,301	1,604	2,874	5,679
Other				
Angola	o	0	0	٥
Australia	0	0	œ	œ
Bahames	999	210	25	1,288
Solves	0	0	0	0
gard.	4	0.0	De	ig o
Bruffe	- F	9	o di	200
Compa	. 0	s și	0	100
Finels	e	a	a	٥
France	0		0	0
Ghana	0	0	٥	0
	0	0	0	01
Waltysa		0	0	
Wence			7 '	900
Notherlands Amilia	1		3300	2 841
Management Comment of the Comment of	3 *	0 6		•
Comp		e	c	a
Pender's Brouble of Chris	0		. 0	a
	0	0	272	272
Puerto Rico	0	0	0	0
	0	0	0	0
Spain.	0	0	0	0
Sprit	0	0	٥	٥
Thradad	0	0	0	0
Turdis	•	0	0	0
United Kingdom	0	0	0	0
Argin Sklands	i di	1,699	8	3,711
Yugoslavia	0			D
			•	

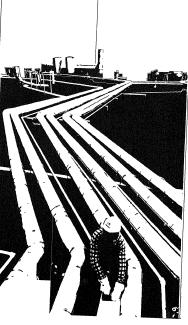
Table 31 tesports of Residual Feel OII by Suther Content by Country of Origin, September 1984 (continued)

		Helicula Foel Ce	5	
Country	0.00 to	0.510	Greater Than 1,00%	Total
Other Orlew Western Hernaphers Other Eastern Hernaphers Setetaal Other	5 EE	0 771 888.5	313 4,705	0 88 TACO!
Folsk Imports	6,170	4238	8,460	17,866

Table 34, Imports of Residual Fuel Oil by Sulfur Content by State of Entry, September 1924 (Thousand Barrels)

feature purelinast

		Standon	Residual Foot Oil	
State	0.0000	03116	Geater Than 1 60%	Total
PAD Durriet I	4281	2,623	26,937	14,807
	8	9/9	8	1,460
Water	0	25	200	Č.
	٥	0	483	99
Missingkowith	0	0	1230	1,210
New Hampstone	•		0	8
New Jessey	3000	200	201	2000
	٥	0	Ď	ž
Perrophera	749	348	0	493
South Cardina	0 :	0	8	8
Vermont	- }	0	£	= 1
Vigna	275	0	338	8
PAD District II	9	0	9.	b
Methgan	63		٥	47
Menesota	0	01	şi .	a ·
North Dakola	-	9		
PAD District III	600	347	1,361	2,547
Lousing	٥	٥	174	124
Totals	839	347	1,187	2773
PAD District IV	-	0		4
Montana	-	٥	0	^
PAD District V	8	300	27	345
Cofford		0	O4	œ
Hawaii	2	2 °	p c	338
Washregton	D	**	9	,
All PAD Districts	6,170	4,236	0,460	17,866
(4) = Less then 500 barrels.				



# Definitions of Petroleum Products and Other Terms

Alcohol. The family name of a group of organic chemlest compounds composed of extreet, hydrogen, and exygen. The series of molecules vary in chain length and are composed of a hydrocarbon plus a hydroxyl group; CH-(CH)n-OH. Alcohol includes methanol and ethanol.

Alkylation. A refinery process for chemically combining isoparaffin with olefin hydrocarbons. The product, alkylate, has high octane value and is blended with motor and aviation gesoline 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 celibrated in terms of degrees API; It may be calculated in terms of the following formula:

Arometics. Hydrocarbons characterized by unsaturated ring structures of carbon atoms. Commercial petroleum aromatics are benzene, toluene, and xylene.

Asphal. A dark-brown-to-black cement-like material containing bitumens as the pradominant constituents, obtained by petroloum processing. The definition includes crude asphal is awoil as the following linished products: coments, fluxes, the asphalt content of crutilionis (acclusive of water), and potroleum distuicionistic production of the production of crutina and production of the production of the conversion factor for explaint is 5.5 berrals of 42 U.S. soliens per effort for.

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

Aviation Gasoline Blanding Components. Finished components in the gasoline range which will be used for blanding or compounding into finished aviation

Arietion Gasoline (Finished). All special grades of gasoline for use in aviation reciprocating onglines, as given in ASTM Specification D910 and Millary Specification MIL-G5572. Excludes blending components which will be used in blending or compounding into finished eviation gasoline.

Berral. 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 and wax to berrels are given in the delinitions for these products.

Barrols Per Calendar Day, See Operable Capacity.

Barrels Per Stream Day, See Operable Capacity.

gesoline.

Bi-Metallic. A term used to describe a type of catalyst A catalytic process utilizing a catalyst comprised of two metals (e.g. pistinum, rhenium).

Butene. A normally gaseous straight-chain or branchchain hydrocarbon. (24H t0). It is extracted from natural gas or refinery gas streams. It includes isobutane and normal butene and is covered by ASTM Specification D1835 and Gas Processors Association Specifications for commercial butene.

Isobulsae. A normally gaseous branch-chain hydrocerbon, (C4H19), It is a coloriess paraffinic gas that bolls at a temperature of 10.9 degrees F. It is extracted from natural gas or refinery gas streams.

Normal Butane. A normally gaseous straight-chain hydrocarbon, (C4H10). It is a colorless paraffinic gas that boils at a temperature of 31.1 degrees F, it is extracted from natural gas or refinery assistreams.

Butylena. An ciellinic hydrocarbon, (C4H8), recovered from refinery processes.

Gatalytic Cracking. The refining process of breaking down the larger, heavier, and more complex hydrocerbon 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 Hydrocracking. A refining process for converting middle boiling or residual material to high-octane gasoline, reformer charge stock, lot fuel and/or high grade fuel oil. Hydrocracking is an afficient, relatively low temperature process using hydrogen and a catalyst.

Catalytic Hydrotreating. A process for treating petroloum fractions (e.g. distillate fuel oil and residual oil) and unfinished oils (e.g. naphthes, reformer feeds and heavy gas oils) in the presence of catalysts and substantial quantilles of hydroen to upgrade their qualities.

Catalytic Reforming. The use of controlled heat and pressure with relatives to effect the rearrangement of sertials hydrocarbon molecules without altering their composition apprecisely; the conversion of low-outene gasoline fractions into higher outene stocks quitable for blending into flushing daysoline; also the conversion of mighthes to obtain a more votatile product of higher cetage number.

Conventional. A term used to describe a type of catalyst. A catalytic process utilizing a catalyst comprised of a metal and a non-metal (e.g. platinum, alumina).

Coal. A generic term applied to carbonaceous rocks that were formed by the perital or complete decomposition of vegetation. These stratified carbonaceous rocks are either solid or brittle and are highly combustible. Includes lignite, bituminous coal, and anthracite which conform to ASTM Specification D388.

Crude Distillation. The relining process of separating crude oil components by heating and subsequent condensing of the fractions by cooling.

Crade Oil fincluding Lease Condensate) A mixture of hydrocarbons that existed in lequel phase in underground reservoirs and remains liquid at atmospheric pressure after possing through articles espeating licitities. Included are lease condensate and facult bystake, Drig passes are also included, but topped crude shale. Drig passes are also included, but topped crude oil resolutily oil and other unfinished oils are sociuded. Liquids produced er natural gas processing plenis and mixed with crude oil are fisewase excluded where iduntional control of the control of the fine of the control of the fine of the control of the fine of the control of the fine of the control of the fine of the control of the fine of the control of the fine of the control of the fine of the control of the fine of the control of the fine of the control of the fine of the control of the fine of the control of the fine of the control of the fine of fine of

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

Foreign. Crude oil produced outside the United States. Imported Athebasca hydrocarbons are included.

Delayed Coking. A process to produce low Conradson carbon gas oil for catalytic cracking feedstock and for assoline.

Distiliste Fuel Oil. A general classification for one of the petroleum frections produced in conventional distilitation operations. It is used primarily for space healing, on-and-of-highway classe lengine fuel (including railroad engine fuel and fuel for agricultural machinory), 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 diseat fuels.

No. 1 Fuel Oll. A light distillate fuel oil intended for use in vegorizing politype burners. ASTM Specification DS96 specifies for this grade maximum distillation temperatures of 400 degrees F. at the 10-percent point and 550 degrees F. at the 90-percent point, and kinematic viscosities between 1.4 and 2.2 centistokes at 100 degrees F.

No. 2 Fuel Oil. A distillate fuel cal for use in atomizingtype burners for demestic healing of or moderies capacity commercial-industrial burner units. ASTM Specification 2008 specifies for this grade client tion temperatures at the 90-percent point between 50 degrees and 400 degrees F, and kinematic viscostiles between 2.0 and 3.6 centistokos at 100 degrees F.

No. 1 and No. 2 Diesel Fuel Olls. Distillate fuel oils used in compression-ignition engines, as given by ASTM Specification 0975:

No. 1-D. A volatile distillate fuel oil with a boiling range between 300-576 degrees F. and used in highspeed diesel engines generally operated under variations in speed and load, includes type C-B diesel fuel used for city buses and similar operations. Properties are defined in ASTM Specification D976. No. 20. A gas oil type distillate of lower volatility with distillation temperatures at the 60-period provided the control of

No. 4 Feel Oll. A Luel oil for commercial burnor instalisations not equipped with proheating facilities. It is used extensively in industrial plants. This grade is a beind of distillation fuel oil and reactual fuel oil Federal Specification VY-F-815C; its kinematic viscosity is between 8 and 28 d. contistokes at 100 de gross F. Also included is No. 4-O, a fuel oil for loward medium-specid diseal engines that conforms to

Eastern Hemisphere. That half of the earth east of the Atlantic Ocean which includes Europe, Asia, Africa and Australia. The Heweilsh Foreign Trade Zone is in this hemisphere.

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

Ethane, A normally gaseous straight-chain hydrocarbon, (C2H6). It is a coloriess paraffinic gas that boils at a temperature of - 127.48 degrees F. It is extracted from natural gas and refinery gas streams.

Ethylene. An olefinic hydrocarbon, (C2H4), recovered from refinery processes or netrochemical processes.

Field Production. Represents crude oil production on leases, natural gas liquids production at natural gas processing plants, and new supply of other hydrocarbons and alcohol.

Fluid Coking. A thermal process utilizing the fluidizedsolids technique for continuous conversion of heavy, low-grade oils into lighter products.

# Gasobol, See Motor Gasoline (Finished).

Gas Oll. A liquid potroleum distiliate having a viscosity intermediate between that of kerosene and lubricating oil. Derives its name from having originally been used in the manufacture of illuminating gas. Now supplies distillate-type fuel oils and clesel fuel, also cracked to produce ospoline.

Gasoline Blending Components. Finished components in the gasoline range which will be used for blending or compounding into finished sviation or motor gasoline.

Idle Capacity. The component of operable capacity that is not in operation and not under active repairs, but capable of being placed in operation within 30 days; and capacity not in operation but under active repairs 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 isquid hydrocarbons produced from ter sand oil, glisonite, and shale oil.

#### Isobutane, See Butane,

isomerization. A retining process which alters the fundamental arrangement of atoms in the molecule. Used to convert normal butane into isobutane, an alyklation process feedstock, and normal pentane and hexane into isopentane and isohexane, high-oclane pasoline components.

Kerosene. A petroleum distillate that bolls as isemperature between 300 550 degrees F, that has a lisin hour higher than 100 degrees F, by ASTM Method 105, that is a substitution of the second sec

Kerosene-Type Jet Fuel. A quality kerosene product with an exerce gravity of 40.7 degrees API, and a 10 percent distillation temperature of 400 degrees F. H. is covered by ASTM Specification D1655 and Military-Specification MILI-T-5624L (Grades JP-5 and JP-5). A relatively low-irresting point distillate of the kerosene type; It is used primarily for commercial turbojet and turbopropial circuit engines.

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

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

Liqueffed Patinery Gases (LRG), Liqueffed photoloum gestes fractionated from reflency or a tall gases. Through compression and/or retrigeration they are related in his liquid state. The reported categories are altituded to the result of the

Lubricating Oils. A substance used to reduce friction between bearing surfaces. Perfoleum lubricants may be produced either from distillates or residues. Other substances may be added to impart or improve certain required properties. "Lubricants" includes all grades of lubricating oils from spindle oil to cylinder oil and those used in greases. The three categories includes:

Bright Stock. A refined, high viscosity lubricating oil base stock that is usually made from a residuum by a treatment such as deasphalting, acid treatment, or solvent extraction.

Neutral. A distribute fubricating oil base stock with a viscosity that is usually not above 550 Saybolt Universal Seconds (SUS) at 100 degrees F. It is prepared by a treatment such as hydrofining, acid treatment, or solvent extraction.

Other. A lubricating oil base stock used in finished lubricating oils and greases, including black, coastal, and red oils

Middle Distillates. A general classification that includes distillate fuel oil and kerosene.

Miscellaneous Products, Includes all finished products not classified elsewhere, e.g., petrolatum, absorption oils, ram-jet fuel, petroleum rocket luels, synthetic natural des faedstocks, soeciality ells and medicinal oils.

Motor Gasoline Blending Components. Finished components in the gasoline range which will be used for blending or compounding into finished motor gasoline Pool gasoline is included in this category.

Motor Gasoline [Finished, A complex mixture of institute you with sylvicosethors, with or without small entirely would be your control of the control of a fuel suitable for use in speri-cignition engines. Specifications for motor gasolines, as given in ASTM Specification. 1845 or Fuderial Specification, VV-C-1008, inprovent point of 56-374 degrees F, at the Schercont point point of 56-374 degrees F, at the Schercont point and a filed vapor pressure range from 9 to 15 pst. Introductional degacinies, and gasoline, single security of the schercontrol of the schercontrol of the schercontrol of the schercontrol of the stort of the Selecting of gasobol is also sotles to to used in the Selecting of gasobol is situation.

Finished Laeded Gastoline. Contains more than 0.05 gram of lead per gallon or more than 0.05 gram of phosphorus por gallon. The actual lead content of any yaving allon, however, may yav a a function of the size of the producer and company according to specific Environmental Protection. Agency valver provisions. Premum end regular grades are included, advantaged to the octains rating, includes issaed organization of the octains rating, includes issaed being confident. Alcohol that is 10 to be used in the been completed. Alcohol that is 10 to be used in the

Finished Unleaded Gesoline. Contains not more than 0.05 gram of lead per gallon and not more than 0.005 gram of phosphorus per gallon. Premium and regular grades are included, depending on the octaine rating, includes unleaded gesohol. Blend stock is excluded until blending has been completed. Alcohol that is to be used in the blending of gaschol is also excluded.

Geschol. A blend of finished motor gasoline (leaded or unleaded) and alcohol (generally ethanol but sometimes methanol) in which 10 percent or more of the product is alcohol. Naphtha-Type Jet Fuel. A fuel in the heavy naphtha boliing range with an average gravity of 82.8 degrees API and 20 to 90 percent distillation temperatures of 290 degrees to 470 degrees F, meeting Military Specification MILT-1-6204. (Grade UP-4), P9-4 is used for furbojid and turboprop sircraft engines, primarily by the military Excludes armiglating host programming the series of the s

Natural Ges. 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 propers, normal butane, pentanes plus, etc., and to control the quality of natural gas to be marketed.

Natural Gas Plant Liquids, Natural gas liquids recorend from natural gas in gas pocessibility plants, and in every control of the procession of the procession of the gas gas liquids extractly fractionates on eath included. These liquids are delined according to the publetised specification of the Gas Procession Association shared procession of the Gas Procession and according are classified as follows: Ethney, propans, normal pulare classified as follows: Ethney, propans, normal pulrant, isopolutars, perstance plus, and other products readform natural gas processing plants (i.e. products readtions and procession plants (i.e. products readtions) and processing plants (i.e. products readtions) and products and products of the products (cured at natural gas processing plants, such as finlshed motor gasoline, finished availor gasoline, spedar paths, but cannot confilled to the Card microbiotic and pulsars. As exercised, confilled to the Card microbiotic and products and plants are considered to the control control of the control of

Natural Gesoline and inopentane. A mixture of hydrocathons, mostly perfents and heavier, extracted from natural ges, that meets vegor pressure, embyonit, and surface and pressure and pressure and pressure and prepared to the pressure and pressure and pressure and prepared to the pressure and pressure and pressure and pretained by frequently and pressure and pressure and pretained by frequently and pressure and pressure and pretained by frequently and pressure and pressure and pretained by frequently and pressure and pressure and pressure and pressure and pressure and pressure and pressure and pressure and pressure and pressure and preserved and pressure and pressure and preserved and pressure and pressure and preserved and pressure and pressure and preserved and pressure and pressure and presure and pressure and preserved and preserved and prepared and prepa

#### Normal Butane, See Butane

OPEC. The scronym for the Organization of Petroleum Experting Countries, oil-producing and exporting counries that have organized for the purpose of negoliating with oil companies on matters oil oil production, prices and future concession rights Current members are Ataction of the Countries of the Countries of the Countries Libys, Nigoria, Calast, Seud, Arabia, United Anal Entisias, and Managraphia.

Operable Capacity. The smount of capacity that, at the beginning of the period, is in operation; not in operation, not in operation, and not under active repairs but capable of being placed in operation within 3 deys; or not in operation but under active repairs that can be completed within 80 days. Operation capacity the sum of the operation and idle capacity and is measured in barrels per calendary to present per steam day.

Barrels Per Calendar Day, The maximum number of barrels of input that can be processed in an atmos-

pheno distillation facility during a twenty-four 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 plenned 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

The environmental constraints associated with relinery operations.

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

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 and product state conditions.

Operating Capacity. The component of operable capacity that is in operation at the beginning of the period.

Other Hydrocarbons. Materials received by a refinery

and consumed as rew materials. Includes hydrogen, coal lar derivatives, glisonite, and natural gas received by the relinery for reforming into hydrogen. Natural gas to be used as fuel is excluded.

Pentanes Plus. A mixture of hydrocarbona, mostly pentanes and heavier, extracted from natural gas. Includes isopentane, natural gasoline and plant condensate.

Petrochemical Feedstock Use. Chemical feedstocks derived from petroleum, principally for the manufacture of chemicals, synthetic rubber and a variety of pastes. The categories reported are "Naphtha-Less than 400 degrees F, end-point" and "Other oils over 400 degrees F, end-point".

Naphtha-Less Than 400 Degrees F. End-Point. A naphtha with an end point of less than 400 degrees F. that is intended for use as a petrochemical feed-stock.

Other Oils-Over 400 Degrees F. End-Point. Oils with an end point over 400 degrees F. that is intended for use as a petrochemical feedstock.

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 of 42 U.S. callons 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 (i.e., 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 relinery process. This carbon or coke is not recoverable in a concentrated form.

Petrolaum Products. Petrolaum products are obtained from the processing of order oil (including lesse con-densate), natural gas and other hydrocarbon compounds Petrolaum products natural usur including lesses on gegeniam, motor gessione, neghtiary petrolaum gases, pentanes plus, aviation gegeniam, motor gassiline, naphtiary piet fluel, from the petrolaum gases, distilliate fuel oil, residual controlaum gases, distilliate fuel oil, residual controlaum gases, pentanes plus, aviation generation gases, distilliate fuel oil, residual controlaum gases, distilliate fuel oil, residual controlaum gases, pentanes plus gases and miscolalianesse products.

Petroleum Refinery. An installation that manufacturers finished petroleum products from crude cil, unfinished cils, natural gas liquids, other hydrocarbons, and alcohol.

Plant Condensate. One of the natural gas liquids, mostly pentanes and heavier hydrocarbons, recovered and separated as liquids at gas intel separators or scrubpers in processing plants.

Pulmary Stocks. Stocks of crude oil or petroleum products held in slorage at (or in) leases, reflences, natural gas processing plants, picelinas, tanklarms, and buik terminals that on store at lease 150,000 barricls of petroleum store at lease 150,000 barricls of petroleum store at lease 150,000 barricls of petroleum plants, or pipeline. Crude oil that is in transit from Alsako, or that is stored on Federal leases or in the Strategic Petroleum Roservo is included. Primary product de Marchael 150,000 ordini hat are held to petroleum Roservo is included. Primary product de Marchael 150,000 ordini that are held to the store that the store that the held to the store that the store that the held to the store that the held to the store that the held to the store that the held to the store that the held to the store that the store that the held to the store that the store that the held the store that the held the store that the stor

Propans. A normally gaseous straight-chain hydrocarbon, (C3H8). It is a colorless paraffinic gas that boils at a temporature of -43.67 depress F. It is extracted from natural gas or refinery gas streams. It includes all produots covered by Gas Processors Association Specifications for commercial propane and HD-5 propane and ASTM Specification D1835.

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

Readual Fuel Oil. The topped crude of refinery operations which includes No. 5 and No. 6 tail oils as defined in ASTM Specification DS96 and Foreral Specification ASTM Specification DS96 and Foreral Specification MILE—ReSED including Amendment (2 NATO Symbol F—77), and Bunker C fuel oil. Residual fuel oil is used for the production of electric power, spece healing, versels bunkering, and vanious fuels of the production of the control of the Control of

Road Off. Any heavy patroleum oil, including residual asphalitic 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 vis-

Special Naphthas. All Insahed products within the pasoline ringe that are used as plent thinners, cleanors, or solvents. These products are refuned to a specified flash point and have a boiling ringe of 90 dogrees to 220 degrees F "Special rispithas" includes all commercial haxens and cleaning solvents conforming to ARTM Specification D1836 and D454, respectively. New York of the Commercial Conference of the Commercial New York of the Commercial Commercial Part of the Commercial Commer

Steam (Purchased). Steam, purchased for use by a refinery, that was not generated from within the refinery complex.

Still Ges (Refinery Ges). Any form or mixture of gas produced in refineries by distillation, crecking, reforming, and other processes. The principal constituents are methane, ethane, ethylane, normal butana, butylene, propene, propylene, etc. Still gas is reported for petrochemical redistock use and/or refinery fuel use.

Patroshemical Feedstock Use. Includes all refinery streams which are used by chemical or rubber manu-lacturing operations for further processing, less the amount of such streams returned to this source refinery. Finished petrochemical products are not included on For example, polyethyleno, butsellene, etc. are considered petrochemical products; therefore, only their feedstocks outwalents are included.

#### Fuel Use, All other still oas.

Strategic Petroleum Reserve (SPR). Petroleum stocks mainteined by the Federal Government for use during periods of major supply interruption.

Thermal Cracking. A refining process in which heat and pressure are used to break down, rearrange, or combine hydrocarbon molecules. Thermal cracking is used to increase the yield of gasoline obtainable from crude oil.

Unfinished Oils, includes all oils requiring further processing, except those requiring only mechanical blanding.

Unfractionated Streams. Mixtures of unsegregated natural gas liquid components excluding those in plant condensate. This product is extracted from natural gas.

Vacuum Distillation. Distillation under reduced pressure (less the atmospheric) which lowers the boilling temperature of the liquid-being distilled. This technique with its relatively low temperatures prevents creaking or decomposition of the charge stock.

Visbreaking. A thermal cracking process in which heavy vacuum-still bottoms produced on the primary distillation unit are cracked to increase production of distillate products.

Wax. A solid or semi-solid material derived from potroleum distillates or residues by such treatments as chilling, precipitating with a solvent, or de-olling. It is lightcolored, more-or-less translucent crystalline mass, slightly greasy to the touch, consisting of a mixture of solid hydrocarbons in which the parefilin series predominates, includes all marketable wax whether cruds scale of fully refined. The three grades included are microcrystalline, crystalline-fully refined, and crystalline-other. The conversion factor is 280 pounds per 42-U S, allon barrel.

Microcrystalline Wax, Wax extracted from certain petroleum residues having a finer and less apparent crystalline structure than peraffin wax and having the following physical characteristics:

Penetration at 77 degrees F. (D1321)-80 maximum Viscosity at 210 degrees F. in Saybolt Universal Seconds (SUS). (D88)-60 SUS (10.22 centistokes) minimum to 150 SUS (31.8 centistokes) maximum. Oil content (D7211-5 per Crystalline-Fully Refined Wax. A light-colored paral fin wax having the following characteristics:

Viscosity at 210 degrees 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 degrees F. (D88)-59.9 SUS (10.18 centistokes) maximum. Oil Content (D721)-0 51 percent minimum to 15 percent maximum.

Western Hamisphere. That half of the earth that includes North and South America and adjacent islands

# Bureau of Mines Petroleum Refining Districts and PAD Districts

The following are the Bureau of Mines petroleum refining districts which make up the PAD districts

#### PAD District I

East Coast: District of Columbia and the Steles of Maine, New Hampshire, Vermont, Massachuseits, Rhode Island, Connecticut, New Jersey, Delaware, Nanyand, Virginia, North Carolina, South Carolina, South Carolina, South Carolina, State of New York: Cayuga, Tompkina, Chemung and counties east and north thereof. Also the following counties in the State of Pernsylvania: Bradled, Suilia Counties and thorachimetriane, Osephin, Vork, and sillo counties east three-therefrane, Osephin.

Appalachian #1: The State of West Virginia and those parts of the States of Pennsylvania and New York not included in the East Coast District.

#### PAD District II

South Dakota

Appalachien #2: The following counties of the State of Ohio: Erle, Huron, Crawford, Marion, Deleware, Franklin, Pickaway, Ross, Pike, Scioto, and all counties east thereof.

Indians—Illinois—Kentucky: The States of Indiana, Illinois, Kentucky, Yennessee, Michigan, and that part of the State of Ohio not included in the Appalachian District.

trict.

Minnesote—Wisconsin—North and South Dekote: The States of Minnesots. Wisconsin, North Dakots, and

Oklehome.—Kansas.—Missouri: The States of Oklehome. Kansas, Missouri, Nebrasks, and lows.

#### PAD District III

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

Taxas Gulf Cest: The following counties of the State of Texas: Newton, Orange, Jefferson, Jasper, Tyler, Hardin, Liberty, Chambers, Polk, San Jacinto, Montgomery, Harris, Gaiveston, Waller, Fort Bend, Brazoria, Wharton, Malagords, Jackson, Victoria, Caihoun, Refuglo, Aransas, San Patriclo, Nueces, Kleberg, Kenedy, Willacv. and Cameron.

Louisians Gulf Coast: The following Parishes of the State of Louisians: Vernon, Repides, Avvogilae, Points Coupee, West Felicians, Bart Felicians, Baint Halens, Tangipahoa, Washington, and all Parishes south there of Also the following counties of the State of Missishipi: Pear I Rhery, Stone, Gaorge, Hancock, Harrison, and Jackson. Also the following counties of the State of Also the Collowing counties of the State of Alsons: Mobile and Baldwing.

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

New Maxigo: 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, Callfornia, Nevada, Arizona, Alaska, and Hawaii.

# Petroleum Administration for Defense (PAD) Districts



# **Bureau of Mines Refining Districts**







# **Explanatory Notes**

# Note 1: Data Collection Methodology

#### Background

Beginning in Jeanuary 1983, the Energy Information Administration (ERL) unified it particular supply data colinaction activities, trits the Netroleum Supply Reporting Confection survey forms, other processing systems and publication reystems that have been consolidated to collection survey forms, other processing systems and publication reystems that we been consolidated to the publication of the consolidation to the second tribution of the consolidation to the second second tribution of the consolidation that second tribution is read to the second second second second second to the second sec

adecessor ic	milia.	
New Form Number	Name	Old Form Number
EIA-800	Weekly Refinery Re- port	EIA-161
EIA-801	Weekly Bulk Termi- nel Report	EIA-162
E1A-802	Weekly Product Pipe- line Report	EIA-163
EIA-803	Weekly Crude Oil Stocks Report	EIA-164
EIA-804	Weekly Imports Re-	EIA-165
EIA-805	Weekly Shipments- from Puerto Rico to the United States Report	-
EIA-810	Monthly Refinery Re- port	EIA-87
EIA-811	Monthly Bulk Termi- nal Report	EIA-88
EIA-812	Monthly Product Pipeline Report	EI A-89
EIA-813	Monthly Crude Oil Re- port	E1A-90
ERA-60	Monthly Imports Re- port	ERA-60
EIA-815	Monthly Shipments from Puerto Rico to the United States Report	FEA-P133 M-0
EIA-816	Monthly Natural Gas Liquids Report	EIA-64
EIA-817	Monthly Tanker and Barge Movement	EIA-170

Forms EIA-600 through 806 comprise the Weekly Petroleum Supply Reporting System (WFSRS). This system is designed to collect basic refinery operations and product stock data for major products on a weekly bepetroleum Stefus Report (WFSR) and are also used to calculate the preliminary statistics in the "Summary Statistics" section of the Petroleum Supply Monthly

Report

(PSM). A description of the WPSRS survey forms follows in Note 1.1.

Forms EA-810413, 8154 87 and ERA-80 comprise the Monthly Perforem Supply Reporting Systam (MPSRS). These surveys collect idealied refinery operations detail, refinery, but formfall and pipeline stocks date, crude refinery, but formfall and pipeline stocks date, crude refinery but for the stock of the refinery but for the refinery but for the refinery source of the refinery source of the refinery source of casts for the "Summary Stellstics" and "Detailed St

Date are also obtained in magnetic tape form from the Burseu of the Census on a monthly basis. These tapes contain aggregated import and export statistics that are used in the preparation of the PSM. A description of the Census data follows in Nate 1.3.

#### Note 1.1: Weekly Petroleum Supply Reporting System (WPSRS)

#### Background

The E.A. first began publishing weakly petroleum supply statistics in April 1979 in response to the fernian oil crisis. Initially, the published data were taken from the American Petroleum Institute (API Weakly Statistical Bulletin. However, in January 1980 the EIA began to publish weekly statistics from its own surveys, with the exception of imports statistics which the EIA did not beach collection until June 1980.

The weakly purviyer collect data companish to hitsencondicitied on an anothy basis. Befueder gottown moonpanitor report weakly data to the EA on crucice oil and property weakly data to the EA on crucice oil and to the collection of the Collection of the Collection of the form EA-600 through EA-600, companies report calls on a cased policy also. On the Form EA-600, the timdecise of the Collection of the Collection of the Collection of the Collection of the Collection of the Collection of the United States. On Form EA-600, a company altipolina united basis and middle of the Collection of the Collection of the United States. On Form EA-600, a company altipolina united basis and the Collection of the Collection of the United States. On Form EA-600, a company altipolina united basis and the Collection of the Collection of the Collection of the United States of the Collection of the Collection of the Collection of the United States of the Collection of

#### Sample Frame

The sample of compenies that report weekly is selected from the universe of compenies that report on the comparable monthly surveys. Sampled compenies report date only for facilities in the 50 States and District of Columbia.

The sample for each survey is taken from the following universe:

EIA-800: 8esed on the EIA-810 universe, which includes all petroleum refineries in the United States and its territories, industrial facilities that have crude oil distillation capacity and produce some refined petrole-um products, and plants that produce finished motor gasoline through mechanical blending. The selected sample size is 215.

EIA-801: Based on the EIA-811 universe, which includes all bulk terminal facilities in the United States and its territories that have either a total bulk storage capacity of \$0.000 berrols or more, or that receive petroleum products by tenker, barge, or pipeline. The selected sample size is 33.

EIA-902: Based on the EIA-812 universe, which includes all petroleum product pipeline companies in the United States and its territories that transport refined petroleum products, including internate, intrastate and intracompany pipeline nevereness. Pipeline companies intracompany pipeline nevereness. Pipeline companies that transport only natural gas inguids sen of included that transport products covered in the weekly survey are included. The selected semines late is 65.

EIA-803: Based on the EIA-813 universe, which consists of all companies which carry or store cruce dil of 1,000 barrols or more in the 50 States, and the District of Columbia. Included are gathering and trunk pipeline companies (including interstate, intrastate, and intracompany pipelines), crude oil produces, terminal operators, storers of crude oil, end companies transporting Alaskan crude oil by water.

EIA-804: Based on the ERA-60 universe, which includes all importers of record of crude oil and petroleum products into the United States and Puerto Rico. The selected sample size is 85.

EIA-805: Based on the EIA-815 universe, which includes all shippers of unfinished oils and petroleum products into the United States from Puerto Rico. Four companies report.

#### Sampling Method

The cut-off method is the sampling procedure used for all weekly surveys except the Eth-622, within used the monthly universe in it is enlirely. In the cut-off method, the cut-off method is the cut-off method of the cut-off method is the cut-off method of the cut-off method is the cut-off method of the cut-off method is the cut-off method of the cut-

#### Collection Methods

Data are collected by mail, mallgram, telephone, Telex, and Teletax on a weekly basis. The report period closes each Friday at 7 a.m. All canvassed firms and terminal operations companies must file by 5 p.m. on the following Monday.

#### Estimation and Imputation

After company reports have been checked and entered into the weekly data base, weekly totals for given products are estimated by using the following formula.

The total reported by all companies for the most recent month (Ms) is divided by the amount reported by the sample of companies for the most recent month (Ms). The result is multiplied by the amount reported by the sample of companies for the current week (Ms). The ensure, we estimate the amount that would have been reported by ellicompanies for the current week if all companies reported experiences and companies for the current week if all companies reported experiences.

$$W_1 = \frac{M_1}{M_0} (W_0)$$

This procedure is used to estimate total weekly inputs to refineries and production.

To estimate stocks of finished products, the preceding procedure is followed separately for refineries, bulk terminels, and pipelines. Total estimates are formed by summing over establishment types.

Weekly imports data are highly variable on a companyprocompany basis or a week-y-week basis. Therefore, on exponentially smoothed ratio has been developed. The estimate of weekly imports is the sum of the amounted ratio multiplied by the weekly values and estimates for alignments from perior Rico, imports of imports of the processing of the property of the uniformed products because of coverage differences between the monthly imports date and Geneus data.

Explicit imputation is done for companies which do not respond in a given week. The imputed values are exponentially smoothed means of recent reports from the specific company.

#### Response Rates

The response rate for the published estimates is usually between 95 and 98 percent

# Note 1.2: Monthly Petroleum Supply Reporting System (MPSRS)

#### Background

The MPSRS was implemented in January 1853 as the result of an extensive effort to integrate the collection and processing of petroleum supply data that have been collected on other survey forms for many years. The collection of monthly petroleum supply stetletics began as early as 1918 when the Burseu of Mines (BOM) began collecting data on retinery operations and crude oil stocks and movements. The collection systems were further expanded to include natural gas plant liquids production and storage in 1925, improts of crude oil and petroleum products and storage and movements of petroleum products in 1959, and tanker and barge movements of crude oil and petroleum products in in 1964. Since their inception, each survey has undergone numerous changes, but the MPSR8 is the first offort to make them all consistent and compression.

#### Respondent Frame

EIA-810: All petroleum refineries and plants that produce finished motor gesoline through the mechanical blending of liquids which are operated or controlled in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, the Hawelian Foreign Trade Zone, and Guern. Approximately 313 respondents report on the EIA-810.

EIA-811: All bulk terminal facilities in the 50 States and the District of Columbia, Puerto Rico, and the Virglin islands that (a) have a total bulk storage capacity of 50,000 barrels or more and/or (b) receive petroleum products by tanker, barge, or pipeline, regardless of ownership of the material. Approximately 328 respondents report on the EIA-811.

EIA-812: All products pipeline companies that carry petroleum products (including interates, intrastate and intracompany pipelines) in the 50 States and the District of Columbia. Approximately 94 respondents report on the EIA-912.

EIA-813: All companies which carry or store crude oil 01,000 barrels or more in the 50 States, and the District of Columbia. Included are gathering and trunk pipeline companies (including interstate, intrestate, and intracompany pipelines), crude oil producers, terminal operators, storars of crude oil, and companies transporting Alaskan crude oil by water.

EIA-815: All licensed importers and importers of record shipping petroleum products from Puerto Rico into the 50 States and the District of Columbia.

import data from the ERA-60 and EIA-815 are integrated into the import statistics reported in the PSM.

EIA-816: All operators of facilities designed to extract liquid hydrocerbons from natural gas stream (natural gas processing plants) or to separate a hydrocerbon stream into its component products, i.e., propane, butane, natural gasoline, etc. (fractionetors). Approximately 990 reapondents report on the EIA-818.

EIA-817: All known companies end plants that have custody of crude oil and petroleum products fransportec by tanker and barge between PAD Districts or between PAD Districts and the Panama Canal, There are shoul 50 respondents.

ERA-60: All licensed importers and importers of record importing crude oil and patroloum products into the United States and Puerto Rico. The respondent universe consisted of approximately, 1,100 firms as of July 31, 1882. However, only a selected 250 importers must report each month regardless of import activity. All others must report only for a month in which they actually had importer. The respondent universe for this survey is updated whenever an import license is granted by the Office of Oil Imports of the ERA.

ElA utilizes a number of sources and methods to malilatin the survey respondent lists. On a regular basis, survey managers review industry publications such as the Oil and Gas Journal and LP Gas Almenac for information on facilities or companies going into operation or closing down. These are supposed by articles in changes in status and information received: Indicating changes in status and information received from survey systems operated by wither offices.

Periodically an extensive survey study is conducted to completely referre the frames. The invoives consolidating information from every known source including State agencies, referred agencies (e.g., EPA, Copps of Engineers, Census Bureau, etc.), and private incustry officiency formation of the impact of potential frame changes on the historical time series of data published from these respondents. The results of this frame study are usually implemented in always or the survey of the sur

#### Collection Methods

The data for all of the MPSRS surveys are colleated monthly. Completed forms are required to be post-marked by the 20th day following the end of the report month, with the exception of the ELA-955 and ELA-956 which are due 15 work days following the end of the report month. Tolephone following palls are made to non-respondent prior to be postcateful reliable, for that produce the responsibility of the postcateful reliable, for that used to monitor respondent prior to the postcateful reliable, for that produce the postcateful reliable produced and is used to monitor respondent of the forms.

#### Imputing Missing Data

imputation is performed only for nonresponding companies that submitted report the provious month. For such companies, previous month provious month is ending acticle such as the current month's engling acticle and the current month's engling acticle. In the event that the previous month's data were satimated, event that the previous month's data were satimated, if no second the provious month's data were satimated, if no second you have been continued, if no second you have been continued as a second you have been c

#### Response Rates

As of the filing deadline, the response rates of the EIA-810 through EIA-813 respondents is over 90 percent. The response rate for the EIA-816 is over 85 percent and for the EIA-817 H is 88 percent. All companies that have not responded are contacted by telephone. Although data are taken by telephone to expedite processing, a certified submission is still required. Names of companies that fall to file for 2 consecutive months are forwarded for further noncompliance action.

in July 1983, the ERA-60 survey had a response rate of 98.0 specient by the filling deadline. The universe was 1,100 firms at that time, (Beause this is a dynamic survey), the universe is constantly changing.) Standard followup of nonreppondents is made to insure that all reports are receivers, clinic data sen on imputed for nonrespondents. In addition, response is cross-shocked with response on the Perceivance of the production of the prod

#### Note 1.3: Census Import (IM-145) and Export (EM-522 and EM-594) Data

#### Background

Each month the EIA purchases magnetic faces of lagregated import and export statistical from the Bureau of the Census. These date provide the only source of export statistics and are used to augment the import date collected by the EIA. Export statistics and import date from the Census tapes on liquefield petroloum gases and bonded ship bunkers are published in the PSM.

#### import Statistics (IM-145)

#### Coverage

The import statistics reflect both government and nopovernment imports of merchanise from foreign countries into the U.S. Gustoms territory (the 80 States, the District of Columbia, and Puerlo Rico), without regard to whether or not a commercial transaction is involved, in general, the statistics excited in the state of the columbia of the properties of the state of the columbia of the countries, with the exception of the following types of transactions that are excluded from the statistics.

 Merchandise in-transit through the United States, when documented with Customs as an in-transit movement.

2 Shinmente from annuithorn to 110 possessions the United Ing. the Vir-

#### Source of Import Information

The official U.S. Import statistics are compiled by the Bureau of the Census from copies of the Import entry and warehouse withdrawal forms that Importers are required by law to file with Customs officials (Customs Forms 7501, 7505, and 7505).

imported petroleum is reported as Imports for Consumption, imports for consumption are a combination of entries for immediate consumption and withbrawals from werehouses for consumption. With certain exceptions as inclused above, these dats generally reflect the total of commodities entered into U.S. consumption channels.

#### Country and Area of Origin

The country reported in the stellatios as the country of origin is defined as the country where the merchandles was grown, mined, or manufactured. In instances where the country of origin cannot be determined, the transactions are credited to the country of shipment.

#### Export Statistics (EM-522 and EM-594)

#### Coverage

The export statistics reflect both government and nongovernment exports of domestic and foreign merchandies from the U.S. Customs territory (the 50 States, the Institut of Columbia, and Puerto Rico) to foreign countries, without regard to whether or not the exportation movives a commercial transaction, in general, the site movives and the control of the control of the countries, with the exception of the following types of transactions:

- All shipments from U.S. possessions, regardless of whether the shipments are sent to the United States, to other U.S. possessions, or to foreign countries.
- Merchandise shipped in transit through the United States from one foreign country to another, when documented as such with U.S. Customs.
- 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 bursau of the Census primetry from copies of Shipper a gort Declarations. Exporters are required to file Shipper's Export Beolarations with Custom's officials. The only exceptions are those exporters who have been exhibited to submit detectively to the Bursau of Census on magnetic tape, punched cards, or monthly Shipper's Summer Export Declarations.

#### Country and Area of Destination

The country of destination is defined as the country of utilimate 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 utilimate destination, the shippers is confidered to the last country to which the shipper 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 exposit

#### Note 2: Supply

The components of petroleum supply are field production, refinery production, imports, and stock withdrawal or addition.

Field Production is the sum of crude oil production fin-

cluding lease condensate), natural gas processing plant production, and new supply (field production) of other liquids used by refinerles.

Crude oil production is estimated based on data received from State conservation and revenue agencies. For further explanation, see Explanatory Note 3.

Fleid production of natural gas plant liquids (NSPL), including finished petroleum products, is reported monthly on survey Form EIA-816, Monthly Netural Gas Liquids Report. Negative production will occur when the amount of a product produced during the month is tess than the amount of the stame product that is released to the second of

Relinery Production of petroloum products is reported membry on survey-from EA-816, bothshift petroloum pe

Imports of crude oil and petroleum products ere croted monthly on Form ERA-60, Report of Oil Imports profession to the United Steess and Puerto Ribo, and Form Inflander Oils Immorts and Puerto Ribo, and Form Inflander Oils Immorts and Immortant Stees. In edition, the Census Bureau Tabulation Min-145 summarizes Import data from Customs Import declared for Oils of Control Forms 7501, 7506, and 7506. The Stees Immortant Control Immort declared on Customs Forms 7501, 7506, and 7506. The Steep Stee

cases (LPG), where the Census data show a much higher level of imports then EIA date. This occurs because the ERA-60 respondent frame was built by monitoring importers of licensed products and I PGs are not licensed products. Therefore, respondents that Import only LPGs have not been identified, and do not report these imports to the Department of Energy, Since these importers are required to file form 7501 with the U.S. Customs Service, EIA obtains data on imports of LPGs from Census Tabulation IM-145. Additional data taken from the IM-145 are relatively small quantities of naphtha- and kerosene-type jet fuels, distillate fuel oils, and residuel fuel oils withdrawn from bonded atorage for use in international trade. Even though these duty-free fuels are stored on United States shores, they did not enter the United States for domestic consumption and therefore are not included in the ERA-60 reporting sys-

Stock Withdrawel (\*) or Addition (\*) is calculated by subtracting school at the end of the month from stocks at the beginning of the sense month, (Note: The beginning of the sense month, (Note: The beginning of the sense month, (Note: The beginning of the sense month, (Note: The beginning of the sense month) and the sense of the

Unaccounted-for Crude Oil is a balancing item that represents the difference between crude oil aupply and disposition.

Crude oil supply is the sum of liefs production, imports ear stock withcreaks or additions. Crude oil dispect files in the sum oil exports, retinery imput, losses and state of the sum of exports, retinery imput, losses and state of year of the sum of exports retined to the sum of exports retined to see of more crude oil supplies from crude oil disposition. A possible retuil indicates that retinens and exportser reported use of more crude oil than was recognized returned used to the sum of t

# Note 3: Domestic Crude Oil Production

Data for the Coude Oil Production System (COPS) a responded to the Department of Energy by each of the State conservation agencies, which collect crude oil production values for tax purposes. The U.S. Geological Survey reports the volume of crude oil that it produced off-shore in Federal-younded waters. With the exception of the State conservation special country of the Country

from the State conservation agencies and the U.S. Geological Survey. The ten States that do not report monthby values are Indiena, Kentucky, Missouri, Arkanesa, Utah, New York, Ohlo, Pennsylvania, West Virginia, and Wyoming. Monthly values are estimated for these States using the Individual linear trends of their historical annual crude oil production values.

There is a time lag of approximately 4 months between the end of the reporting month and the time when the monthly COPS information becomes available. Table 11 of this publication provides information becomes available. Table 11 of this publication for the most recent month for which COPS counts of the control of the most recent month for which COPS counts of the

The Individual State level estimates are either exponential curve littled projections based on recont date or are constant level projections based on the average production at equiving a recent time period. In some cases, adjustments are made to these estimates based on additional information on expected changes in production rates supplied by a State agency, a trade associetion, or an individual field overator.

# Note 4: Disposition

The components of petroleum disposition are grude oil losses, refinery inputs, exports, and products supplied for demeatic goosumption.

Crude Oil Losses is the sum of crude oil losses at refineries. Crude oil losses at refineries are reported on Form EIA-810, Refinery Report.

Retiney Inputs of crude oil, natural gas plant liquids, and other liquids are reported monthly on survey Form EIA-810, Manthly Retinery Report. Published inputs of untinished oils and of motor and eviation gasoline blending components equal retinery input minus retinery output. Retinery inputs of finished petroleum products are reported on a not basis under retinery products are reported on a not basis under retinery production.

Exports of crude oil and petroleum products are compiled from Census Bureau tabulations EM-522 and EM-594. Exports include crude oil shipments to Puerto Rico, the Virgin Islands, and the Hawaitan Foreign Trade Zone, which are obtained from efficiency receipts reported on Form EIA-810, by refineries located in these places.

Product Supplied for each product is calculated by eumming field production plus refinery production, plus imports, plus stock withdrawal or minus stock addition, minus crude oil losses (plus net receipts when calculated on a PAD District basis), minus refinery input, minus exports. This formula ensures that total disposition equals total supply.

Products supplied Indicates those quantities of petrour products supplied for dimensitic consumption. Occasionally, the result for a product is negative because total diagnostion of that product accessed total supply. The product reclassification has not been research; 1) product reclassification has not been resource, (2) date were materported or reported late, (3) in the case of calculations on a PAD District basis, the flower products of the product products of the product products of the products of t

Product supplied for crude oil is the sum of crude oil burned on lesses and by pipelines as fuel oil. Those date are reported on Form Ein-413, Monthly Crude Oil Report, Prior to January 1863, crude oil burned on lesses and by pleplines as fuel oil were reported as either distillate or residual fuel oil and included in product supplied for these graducts.

#### Note 5: Stocks

Primary stocks of crude oil are the sum of ending stocks reported monthly on Form EIA-810, Manthly Relinery Report, and on Form EIA-813, Monthly Crude Oil Report, Crude oil held in the Strategic Petroleum Reserve is included unless otherwise noted. Alaskan crude oil in transit is also included. Stocks of crude oil are also reported weekly on Form EIA-800, Weekly Relinery Report, and on Form EIA-803, Weekly Crude Oil Stocks Report. Primary stocks of petroleum products are summed from data reported on Form EIA-816. Monthly Natural Gas Liquids Report, Form EIA-810, Monthly Relinery Report, Form EIA-811, Monthly Bulk Terminal Report, and on Form EIA-812, Monthly Product Plaeline Report. Primary stocks of petroleum products do not include either secondary stocks held by dealers and lobbers or stocks held by consumers. Petroleum product stocks are also reported weekly on Form EIA-800, Weekly Relinery Report, Form EIA-801, Weekly Bulk Terminal Report, and Form EIA-802. Weekly Crude Oll Stocks Report, For survey descriptions and other details, see Explanatory Notes 1.1 · 1.3,

#### Note 6: Average Stock Levels

The graphs displaying monthly stock levels of crude oil, motor gasoline, distillate fue oil, residual fuel oil, and liquefied potroleum gases provide the user with recent data as well as a summary of data from January through December or from July through June for the most cent Sycer profit. This summary takes the form of an average range that includes assessoral variation detergreents the historical statem till a not a forecast. These curves are updated semiannually (in April and October), by basing the average ranges on a more recent time period. Each 3-year data series is adjusted by dropping the first 6 months and including the most recent 6 months.

For each data series, the monthly sessonal factors are estimated by means of a seasonal adjustment technique developed at the Bureau of the Census (Census X-11). The seasonal factors are assumed to be stable file , unchanging from year to year) and additive. The series is desessonalized by subtracting the sessonal facfor for the appropriate month from the reported stock levels. The intent of deseasonalization is to remove only seasonal variation from the data. Thus, a deseasonalized series would contain the same trends and in regularities as the original data. The seasonal factors for distillate fuel oil, residual fuel oil, and liquefled netroleum gases were derived using monthly data for 1977-1983. For motor gasoline, the sessonal factors are based on monthly data for 1978-1983. In 1977, there was virtually no seasonal behavior in motor gasoline stocks. Monthly stock levels stayed at the same high level for the entire year.

After seasonal factors are derived, the most recent 3year period (from January through December or form
July through June) is deseasonalized. The severge of
the deseasonalized 36-month series determines the
midpoint of the deseasonalized average band. The standard error of the deseasonalized 36-months is calculated adjusting for extreme data points. The width of
the average area is twice this standard error.

The upper curve of the average range is defined as the average plus the seasonal factors plus the standard error. The lower curve is defined as the average plus the seasonal factors minus the standard error.

#### Note 7: Movements

Movements of crude oil between PAD Districts are reported on Form Ela-817, Monthly Tanker and Barge Movement Report, and on Form Ela-813, Monthly ported on Form Ela-817, Monthly Tenker and Elaported on Form Ela-817, Monthly Tenker and Ela-Movement Report, and Ela-812, Monthly Producer Pipel movements into and total movements out of each PAD companies and the Elaporte Elaporte Elaporte Elaporte Scriptions and other detail, see Splinelator, Note 1-2.

# Note 8: Preliminary Monthly Statistics

Weekly data (Forms BIA-800, 801, 802, 803, and 804) are used to estimate the most recent monthly values for the Summary Statistics section. Since some of the Weekly reporting periods overlap two adjacent months.

it is necessary to use weighting factors in the calculation of the monthly values.

To estimate crude oil and petroleum product imports, crude oil input to refineres and production of petroleum products for a specific month, the weekly estimates are weighted by the number of days of that month included in each week then summed.

Eind-d-menth abook levels of cruste oil and the major grounders finding pages in distillation facility and the grounders finding pages in distillation facility and the products finding pages before and affect the end of the month. The stud-of-month abook level is calculated by week tables before and affect the end of the month. The stud-of-month abook level is calculated to week table in the stud-of-month abook level is calculated to week table level in the stud-of-month abook and the month of inferential. This change is added to the earlier month of inferential. This change is added to the earlier of the table of the table in the stud-of-month and the stud-ofmonth of inferential. This change is added to the earlier

Preliminary monthly estimates of domestic crude oil production are calculated as described in Explanatory Note 3

#### Note 9: Notes on Tables

Note 9.1 Crude Oil and Petroleum Products Overview statistics on the referenced line appear in Table 4 of the Detailed Statistics, except where noted.

- Crude Oil and Petroleum Products Stock Withdrawal (+) or Addition (-), Petroleum Products Suppiled, Total Imports, Crude Oil Imports, Total Exports, and Crude Oil Exports appear as labeled in Table 4. Total Production and Crude Oil Production appear
- Total Production and Crude Oil Production appear under Field Production in Table 4.

  Natural Gas Plant Production is the sum of Natural Gas Liquids and Finished Petroleum Products Field

Production in Table 4.

- Petroleum Products Imports is the sum of Natural Gas Liquids and LRGs, Other Liquids, and Finished Petroleum Products Imports in Table 4.
- Total Crude Oil and Petroleum Products Ending Stocks appear in thousand berreis in Table 2.

Note 9.2 Crude Oil Supply and Disposition statistics on the referenced line eppear in Table 1 of the Detailed Statistics, except where noted.

Total Domestic Field Production, Alaskan Field Production, SPR Imports, Other Imports (synonymous with Imports Gross Excl. SPR), SPR and Other Primary Stocks Wilthornwal (+) or Addition (-). Ungary

counted For Crude Oil, Refinery Inputs, and Exports appear as labeled in Table 1.

· Crude Losses and Product Supplied appear as labeled in Table 4.

· SPR Ending Stocks and Other Primary Ending Stocks (synonymous with stocks excluding SPR) ap-

. Total Crude Oil Ending Stocks appear in thousand barrels in Table 2.

near in thousand barrels in Table 1. . Total Imports appear in Table 4.

Note 9.3 Finished Motor Gasoline Supply and Disposition statistics on the referenced line appear in Table 4 of the Detailed Statistics, except where noted.

. Total Production is the sum of Field Production and Refinery Production in Table 4.

• Imports, Stock Withdrawal (+) or Addition (-), Exports, and Product Supplied appear as labeled in Table 4.

. Unleaded Percent of Total Product Supplied represents the ratio of finished unleaded motor gasoline product supplied to total finished motor gasoline product supplied, multiplied by 100 and rounded to the nearest tenth.

· Ending stocks are aggregated from ending stocks in thousand barrels in Table 2.

Note 9.4 Distillate and Residual Fuel Oil Supply and Disposition statistics on the referenced lines appear in Table 4 of the Detailed Statistics, except where noted.

. Total Production is the sum of Field Production and

Refinery Production in Table 4. Imports, Stock Withdrawal (+) or Addition (-). Exports, and Product Supplied appear as labeled in Ta-

. Ending Stocks appear in thousand barrels in Table

Note 9.5 Liquefled Petroleum Gases Supply and Disposition statistics represent the aggregation of statistics on ethane, propone, butane, butane-propone mixtures, ethane-propane mixtures, and isobutane. The statistics on the referenced line appear in Table 4 of the Detailed Statistics, except where noted

. Total Production is the sum of Field Production and Refinery Production in Table 4.

 Imports, Stocks Withdrawal (+) or Addition (-), Refinery Inputs, Exports, and Product Supplied appear as labeled in Table 4.

. Ending stocks appear in thousand barrels in Table

Note 9.6 Other Petroleum Products Supply and Disposition statistics represent the appreciation of statistics on natural gasoline, isopentane, unfractionated stream, plant condensate, other liquids, and all finished petroleum products except finished motor gasoline, distillate fuel oil, and residual fuel oil. The statistics on the referenced line are appreciated from Table 4 of the Detailed Statistics, except where noted

. Total Production is the aggregated sum of Field Production and Refinery Production in Table 4.

 Imports, Stock Withdrawal (+) or Addition (-). Refinery Inputs, Exports, and Product Supplied are aggregated from Table 4.

. Ending stocks are appregated from ending stocks in thousand harrels in Table 2

# Note 9.7 Table 1, U.S. Petroleum Balance

. Lines (1) through (3): Crude oil (including lease condensate) production for Alaska, Lower 48 States, and Total U.S. are calculated by calling the conservation agency in Alaska for Alaskan crude oil production during the month, estimating crude oil production in the United States (see Explanatory Note 3), and taking the difference to equal production in the Lower 48 States

· Line (5): SPR Imports are reported on Survey Form FRA-60

. Line (12): Total Other Sources equals crude oil stock witndrawel (+) or addition (-) plus unaccounted for crude oil minus crude losses in Table 2

. Line (14): Natural gas plant liquids (NGPL) Production equals field production of natural gas liquids (NGL) plus field production of finished petroleum

. Line (15): NGPL Imparts equals the sum of the imports of natural gasoline and isopentane, unfractionated stream, and plant condensate imports in Table 2.

products in Table 2.

 Line (16), NGPL Stock Withdrawal (+) or Addition (-) is equal to the sum of stock withdrawal (+) or addition (-) of natural gasoline and isopentane, unfractionated stream, and plant condensate in Table 2.

Line (17) equals the sum of lines (14), (15), and (16).

 Line (18): Unfinished oils and gasoline blending components Stack Withdrawel (+) or Addition (-) equals stock withdrawal (+) or addition (-) for other hydrocarbons and alcohol, for unfinished oils, motor gasoline blending components, and aviation gasoline blending components.

ble 4.

- Line (20): Other Hydrocarbons and Alcohol New Supply equals the field production of same in Table 2
- Line (21) Relinery Processing Gain is a balancing item equal to total refinery production minus total refinery input in Table 2.
- Line (23), Total Other Liquids equals the sum of lines (18) through (22).
- · Line (24). Total Production of Products equals grude oil input to refineries plus field graduction of NGPL and finished petroleum products, plus imports of natural pasoline and isopentane, unfractionated stream, and plant condensate: plus stock withdrawal (+) or addition (-) of natural gasoline and isopentane, unfractionated stream, and plant condensate: plus stock withdrawal (+) or addition (-) of other hydrocarbons and alcohol, unfinished oils, eviation gasoline blending components, and motor gasoline blending components; plus imports of unfinished oits, sviation gasoline blending components, and motor gasoline blending components; plus field production of other hydrocerbons and alcohol; plus total refinery production; minus total refinery input; plus crude oil product supplied in Table 2.
- Line (25): Gross Imports of Refined Products equals imports of LPG plus imports of finished petroleum products in Table 2.
- Line (26): Exports of Refined Products equals exports of LPG plus exports of finished patroleum products in Table 2.
- Line (27): Net Imports of Relined Products equals the difference between lines (25) and (26).
- · Line (28): Total New Supply of Products equals crude all input to refineries plus field production of NGPL and finished petroleum products; plus imports of natural gasoline and isopentane, unfractionated stream, and clant condensate; plus stock withdrawal (+) or addition (-) of natural gasoline and isopentane, unfractionated stream, and plant condensate; plus stock withdrawal (+) or addition (-) of other hydrocarbons and alcohol, unfinished oils, aviation pasoline blending components, and motor gasoline blending components; glus imports of unfinished oils, aviation gasoline blending components, and motor gasoline blending components; plus field production of other hydrocarbons and alcohol; plus total refinery production; minus total refinery input; minus crude oil product supplied plus imports of LPG and finished petroloum products; minus exports of LPG and finished petroleum products in Table 2.
- Line (29): Refined Products Stocks Withdrewsl (+) or Addition (-) equals the sum of stock withdrawsl (+) or addition (-) for LPG and finished petroleum products in Table 2.
- Line (30): Total Petroleum Products Supplied for Domestic Use equals total products supplied in Table

- Lines (31) through (35) equal the respective products supplied in Table 2.
- Line (38): Other Products Supplied equals the sum of natural gasoline and Isopartane, unfancial patients stream, plant conformation, and plant and the stream, and conformation, analytical stream, and conformation and stream, and the stream and the
- Line (37): Total Product Supplied is equal to total products supplied in Table 2.
- The sum of lines (38) and (39), stocks of Crude Oil and Leese Condensate (Excluding SPR) and stocks held by the Strategic Patroleum Reserve, equals ending stocks of crude oil in Table 2. SPR stocks are reported in Enror Ela-813.
- Line (43): stocks of Refined Products, equals the sum of LPG and finished petroleum product stocks in Table 2.

# Note 10: New Stock Basis

were added to bulk terminal and pipeline surveys atfecting subsequent stocks reported and stock withdrawal calculations. Using the expended coverage (new basis), the end-of-year stocks, in million barrels, would have been:

- Crude Oil: 1982 845 (Total) and 351 (Other Primary).
- Crude Oil and Petroleum Products: 1974 1,121;
   1980 1,420; and 1982 1,462
- Motor Gasoline: 1974 225; 1980 263; 1982 244 (Total) and 203 (Finished).
- Distillate Fuel Oil: 1974 224; 1980 205; and 1982 -
- Residual Fuel Oil: 1974-75; 1980-91; and 1982-88.
   Liquefied Petroleum Gases: 1974-113; 1980-128;
- and 1982 103,

   Other Petroleum Products: 1974 220; 1980 249; and 1982 259.
- Stock withdrawal calculations beginning in 1975, 1981, 1983 were made using new basis stock levels.

In January 1984, changes were made in the reporting of natural gas liquids. As a result, unfractionated stream, which was formerly included in "Other Petroleum Produota Supply and Disposition" table in the Summary Statistics, is now reported on a component basis (eithere, host of these stocks will now larger in the "Liquebled Petroleum Gases Supply and Disposition" table of the Summary Statistics. This change will affect stocks reported and stock withortswals in each table. Under the new basis, and-of-vers 1983 stocks, in million barrels,

Liquefied Petroleum Gases, 1983 - 108

would have been:

· Other Petroleum Products: 1983 - 248

# Note 11: Stocks of Alaskan Crude Oil

Stocks of Alaskan crude oil in transit were included for the lirst time in January 1951. The major impact of this change is on the reporting of stock withdrawal calculations. Using the expanded coverage (new basis), 1960 end-of-year stocks, in million barriels, would have been 498 (Total) and 390 (Other Primary).

# Note 12: Changes in Petroleum Industry Reporting

Petroleum statistics contained in this report for all years through 1560 were developed using disfinitions, concepts, reporting procedures and aggregation methods that are consistent with those developed by the 1U.S. Bureau of Mines, Research conducted by the Energy Consistent with those developed by the 100 miles of the 100 mi

EIA reporting forms, definitions, and procedures were modified beginning in January 1981 to describe industry operations more accurately. Unfortunately, empirical information is not available to precisely measure the data shortcomings throughout 1980. However, estimates of the magnitudes of differences in the major

date sense are described below to form a basis for comparing 1979, 1990, and 1981 data.

#### Motor Gasoline

Prior to 1979, the EIA product-supplied series for motor gaspline was consistently about 2 percent lower than the Federal Highway Administration (FHWA) gasolinesales data series, which is derived from State tax recelots. This difference increased to about 4 percent in 1979 and 5 percent in 1980. There are two primary causes for this growing difference. First, refinery operations, particularly the flows of unfinished oils and the redesignation of some finished products, were not being accurately described on the EIA survey forms. Second, a large amount of gasoline was being produced eway from refinenes at "downstream blending stations" to take advantage of provisions in regulations governing the amount of lead that could be added. These blending stations were not reporting gasoline production to the EIA until the data system was changed in January 1981.

Ownthistive estimates of the magnitude of the differserve—Tile Xiv good product group planed data in 1970 and 1960 have been made by the EIA and the American 1972 and 1960 have been made by the EIA and the American 1973 and 1960 dates a published in the Periodeum Zisternent Annuel, as well as EIA and AIP estimates of "recent" moder gestion product supplied. EIA recent esticient moder gestion product supplied. EIA recent tools in the Monthly Periodeum Statement. The ranges displayed in the EIA column related uncertainty in the sales statistics for those years. EIA has recomplished to the EIA column related the EIA and EIA and EIA and label as the Column stated the PIAV dista."

"Office of Energy Information Validation, Energy Information Administration, U.S. Department of Energy, Error Profile of the Motor Fuel Taxation Date used to Establish and Monitor State Emergency Conservation Targets (Washington, D.C: December, 1981).

Finished Motor Gasoline Product Supplied on Old and New Basis (Thousand Barrels per Day)

		19	79			19	800	
	EIA Reported	API Recast	EIA Recast	FHWA'	EIA Reported	API Recast	EIA Recast	FHWA
Jan	6,830	7,230	7,084- 7,246	6,984	6,323	6,789	6,630- 6,791	6,672
Feb	7,254	7,496	7,389- 7,568	7,538	6,596	6,963	6,831- 7,003	6,830
Mar	7,229	7,414	7,301- 7.463	7,316	6,408	6,753	6,607-	6,713
Apr	7,055	7,300	7,187- 7,353	7,375	6,800	7,014	6,826-7,052	6,981
May	7,213	7,429	7,313- 7,475	7,428	6,729	6,954	6,823- 6,984	7,044
Jun	7,191	7,483	7,350- 7,516	7,441	6,657	6,966	6,824- 6,991	7,049
Jul	6,902	7,241	7,105- 7,268	7,299	6,743	6,973	6,960	7,132
Aug	7,330	7,548	7,426- 7,588	7,619	6,648	6,841	6,828	7,090
Sep	8,881	7,122	7,016- 7,262	7,232	6,510	6,692	6,962	6,685
Nov	6,791	7,068	6,958- 7,122	7,142	6,234	8,507	6,516	6,951
Dec	8,730	7,106	6,986- 7,127	7,064	6,632	6,948	6,936	6,993
Average	7,034	7,302	7,183- 7,347	7,309	6,579	6,882	6,806- 6,889	6,925

FRVMA gesoline statistics published in their 1979 Table MF-302, 09.09.00, concerning the published as well as motor gasoline on motor gasoline data are included in published 1980 data. Consequently, the 1979 data shown above were readed by substraing aviation gasoline product supplied quantities as published to the 50 km of the 1979 Petrokum Statement Annual. The 1980 FRVMA data published in their 1980 Table MF-302A. Autoust 1850, clin of traquisher this substrained.

#### Distillate and Residual Fuel Oil

Distillate and residual leaf oil refinery production statistics through 1980 were adjusted to account for an imbalance between unfinished oil supply and disposition. The opported quantities of nating proper of unfinished oils, it has been assumed that this occurs when distributed oils, it has been assumed that this occurs when distributed of the order or

For many years (including 1980), the difference between unfinished oil disposition and supply was subtracted from distillate and residual fuel oil production to adjust for this discrepancy. Two-thirds of the difference was applied to distillate, and one-third to residual fuel oil.

Beginning in January 1981 this adjustment was discontifued because there was not sufficient empficial evidence to support it. The following table presents distilisse and residual ted oil entirety recolution in 1980 as published followish; and on the same basis as 1981 statistics are row being completed (unspitished) to permit comparison between 1980 and 1981 data at may, Adjustums of the form the marginated volumes by the same amounts as the adjusted and unadjusted production volumes.

Adjusted and Unadjusted Relinery Production, and Unadjusted Product Supplied of Distillate and Residual Fuel Oils, by Month for 1979 and 1980 (Thousand Barrels Per Day) 1979

		Distillate	Fuel Oil			Residua	I Fuel Oil	
Month	Adj. Ref. Prod.	Unedj. Ref. Prad.	Diff.	Unadj. Preduct Supplied	Adj. Ref. Prod.	Unadj. Ref Prod.	Diff.	Unadj. Product Suppli <b>e</b> d
Jan.	3.043	3,108	85	4,648	1,912	1,946	34	3,594
Feb.	2,888	2,945	57	4,869	1,792	1,822	30	3,625
Mar.	3,019	3,026	7	3.671	1.719	1,723	4	3,243
Apr.	2,945	2,978	32	3,046	1,639	1,656	17	2,524
May	3,066	3,093	27	3.025	1,586	1,600	14	2,517
Jun.	3,153	3,187	35	2,743	1,548	1,566	18	2,601
Jul.	3,305	3,344	38	2,601	1,575	1,594	20	2,471
Aug.	3,321	3,359	38	2,799	1.584	1,603	20	2,570
Sep.	3,354	3,306	~ 48	2,599	1,627	1.602	- 25	2,584
Oct.	3.251	3,217	~ 34	3,085	1,629	1,612	- 17	2,523
Nov.	3,239	3,200	~ 39	3,208	1,736	1,716	- 20	2,795
Dec.	3,221	3,238	17	3,725	1,894	1,903	9	3,022
Average	3,152	3,169	16	3,327	1,687	1,695	8	2,834

		Distillate	Fuel Oil			Residual	Fuel Oil	
Month	Adj. Ref. Prod.	Unad]. Ref. Prod.	Diff.	Unadj. Product Supplied	Adj. Ref. Prod.	Unadj. Ref. Prod.	Diff.	Unadj. Product Supplied
Jan.	3.013	3.093	80	3,794	1,771	1,812	41	3,108
Feb.	2.766	2.888	122	3,834	1,773	1,836	63	3,168
Mar.	2.557	2,690	133	3,312	1,584	1,652	68	2,726
Apr.	2,460	2,554	94	2,729	1,595	1,643	48	2,492
May	2,474	2,610	136	2.536	1.509	1,579	70	2,305
Jun.	2.646	2.721	75	2.392	1,575	1,613	38	2,359
Jul.	2,689	2,783	94	2.343	1,480	1,528	48	2,339
Aug.	2,461	2.582	121	2,258	1,444	1,506	62	2,348
Sep.	2,686	2,726	40	2.827	1,495	1,516	21	2,380
Oct.	2,589	2,650	61	2,981	1,512	1,543	31	2,258
Nov.	2,703	2,823	120	3,069	1,579	1,641	62	2,513
Dec.	2,891	3,052	161	3,776	1,860	1,743	83	2,762
Average	2,661	2,764	103	2,989	1.580	1.634	54	2.562

#### Total Petroleum Products

The Imbalance between the supply and disposition of unfinished oils and gasoline blending components is included with other products (line 35) in the U.S. Petroleum Balance (Table 1). These imbalances are reported as negative product supplied in the Other Liquids section, Supply and Disposition Statistics (Table 2). Since these changes only involve redistribution of the volumes of gasoline, detillate and residual fuel oil, gasoline blending components, and unfinished oils, the total volume of petroleum products supplied remains unelfected by them.

#### Note 13: NGL Import/Export Algorithms

parts, the EIA developed a statistical algorithm.

Beginning in January 1984, the Energy Information Administration (EIA) implemented changes in the reporting of natural gas fluid (MCI) supply dela, moving from a nime-product state is to sine-component state that Carpone

#### imports

The imports algorithm is based on information gathered from the larger importers of NGL, who were asked to provide component analyses of the products they imported during the first six moniths of 1983 more percentages shown in Exhibit 1 are derived from the weighted averages of the data provided by the importance.

#### EVALUATE ALCORITHMS FOR ALLOCATING NOLIMBORES

EXHIBIT I. ALGORITH	WO FUN ALLUG	ATTIVG NGL III	ronis		
PRODUCT SLATE Natural Gasoline & Isopentane (EIA-814)	Ethane	Propane	Normal butane	Isobutane	Pentanes Plus 100%
Plant Condensate (EIA-814)					100%
Ethane (IM-145)	100%				
Butane (IM-145)			60%	40%	
Butane-Propane Mixtures (IM-145)		40%	35%	20%	5%
Ethane-Propane Mixtures (IM~145)	80%	20%			

#### Exports

The export algorithm is based on information gathered from the larger exporters of NGL, who were asked to provide component analyses of the products they exported during 1983. The percentages shown in Exhibit 2 are derived from the weighted averages of the data provided by the exporters. It was necessary to derive percentages by PAD of exportation, due to the wide variation of components in the mixed streams.

# EXHIBIT 2. ALGORITHMS FOR ALLOCATING NGL EXPORTS

			EI.	A Component & Normal	1810	Pentanes
PRODUCT	P.A.D.	Ethane	Propane	Butane	Isobutane	Plus
Ethane	All	100%				
Propane	All		100%			
Butane	All			100%		
Mixed Streams	1, 1V, V 11 111	30%	40% 25% 80%	60% 15% 20%	15%	15%

<sup>#</sup> U.S. GOVERNMENT PRINTENG COTAGE: 1984-461-191:10003



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